# Base Load Power Hub (BLPH)

INS JB

EQUIPMENT MANUFACTURERS RECORD BOOK

Document Number: 1724001299-QC-DB-00007

Document Class: 2

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| 01 | 19/11/2024 | Accepted for construction (AFC) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |
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# Base Load Power Hub (BLPH)

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EQUIPMENT MANUFACTURERS RECORD BOOK - INDEX

Document Number: 1724001299-QC-LIS-00009

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ROSETTI MARINO

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| ROSETTI MARINO SpA Stefano Lissi Quality Control Dept. | 07/11/24 |

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PART 1 – DESIGN DOSSIER

- List:
  - Documents register – Doc. No. 1724001299-MD-LIS-00001

# Base Load Power Hub (BLPH)

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SUPPLIER MASTER INFORMATION REGISTER

Document Number: 1724001299-MD-LIS-00001

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| | data / *dated:* | 24/09/2024 | | Codice F./ *S. Code:* | | | | | | | | | | |
| | Commessa / *Job:* | 123A90 | | Indirizzo/ *address* : | Via Aquileia, 10 - 34070 Villesse (Go) Italy | | | | | | | | | |
| | Descrizione / *Description* | INS JB | | Persona di riferim./ *contact person:* | pmd@cortemgroup.com | | | | | | | | | |
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| | | | | | *ENGINEERING DOCUMENTS* | | | | | | | | | |
| 3 | 1724001299-IN-DA-00003 | 00 | 1724001299-IN-DA-00003 | 00 | GAD-2708 | 00 | GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS (INCLUDING TERMINAL SCHEDULE ) - INS JB | INS | 19/07/2024 | A4 | | | Y | A |
| 4 | 1724001299-IN-DS-00004 | 00 | 1724001299-IN-DS-00004 | 00 | CAT-2708 | 00 | EQUIPMENT TECHNICAL DATA SHEET - INS JB | INS | 26/07/2024 | A4 | | | N | A |
| 5 | 1724001299-IN-LIS-00005 | 00 | 1724001299-IN-LIS-00005 | 00 | ATEX-2708 | 00 | ATEX REGISTER- - INS JB | QUA | 26/07/2024 | | | | N | A |
| 6 | 1724001299-IN-LIS-00006 | 00 | 1724001299-IN-LIS-00006 | 00 | VAR-2708 | 00 | VENDOR ASSET REGISTER - INS JB | DATA | 26/07/2024 | | | | N | A |
| 7 | 1724001299-QC-LIS-00009 | 00 | 1724001299-QC-LIS-00009 | 00 | MRBI-2708 | 00 | EQUIPMENT MANUFACTURERS RECORD BOOK - INS JB - INDEX | QUA | 27/09/2024 | | | | N | A |
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| | | | | | *SPARES & MAINTENANCE DATA* | | | | | | | | | |
| 9 | 1724001299-IN-MAN-00008 | 00 | 1724001299-IN-MAN-00008 | 00 | IOM-2708 | 00 | INSTALLATION, OPERATING AND MAINTENANCE MANUAL - INS JB | INS | 26/07/2024 | A4 | | | N | I |

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PART 1 – DESIGN DOSSIER

- Diagrams N/A

PART 1 – DESIGN DOSSIER

- Drawings

- General arrangement drawings – Doc.No. 1724001299-IN-DA-00003

# Base Load Power Hub (BLPH)

INS JB

GENERAL ARRANGEMENT AND DIMENSIONAL DRAWINGS (INCLUDING TERMINAL SCHEDULE ) - INS JB

Document Number: 1724001299-IN-DA-00003

Document Class: 2

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| V.Barratta | 09-08-2024 |

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| 01 | 08/08/2024 | Accepted for Construction (AFC) | A. FRATTARUOLO | M. DE GIUSTI | R. GRATTON |
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| TB-1 | 19 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
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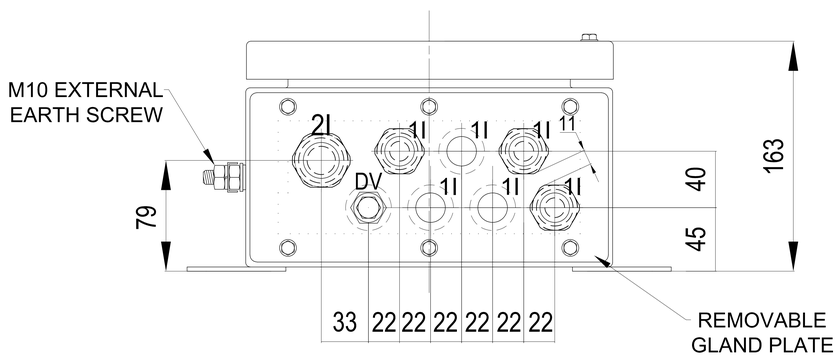
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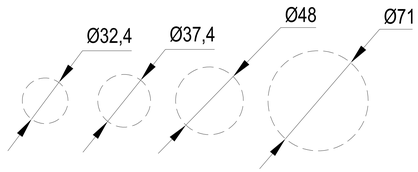
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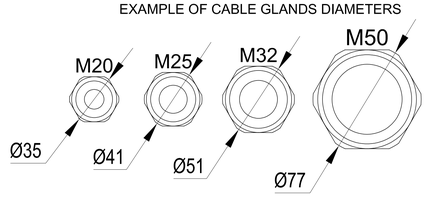
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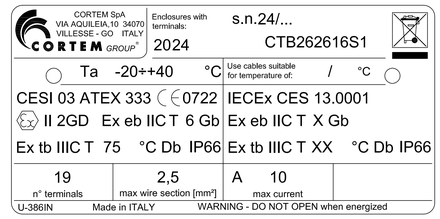

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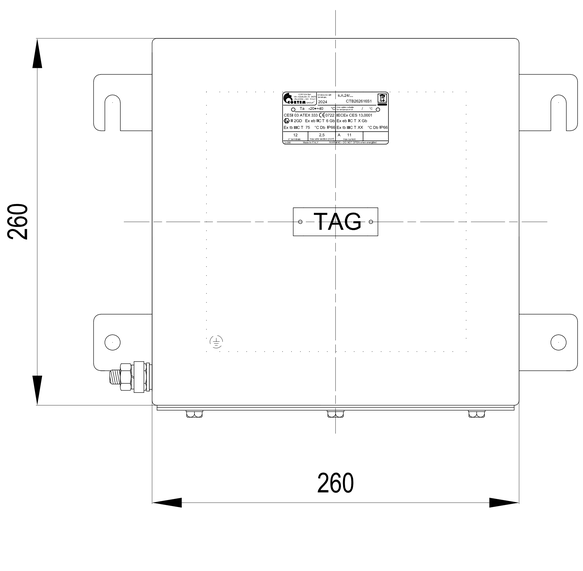

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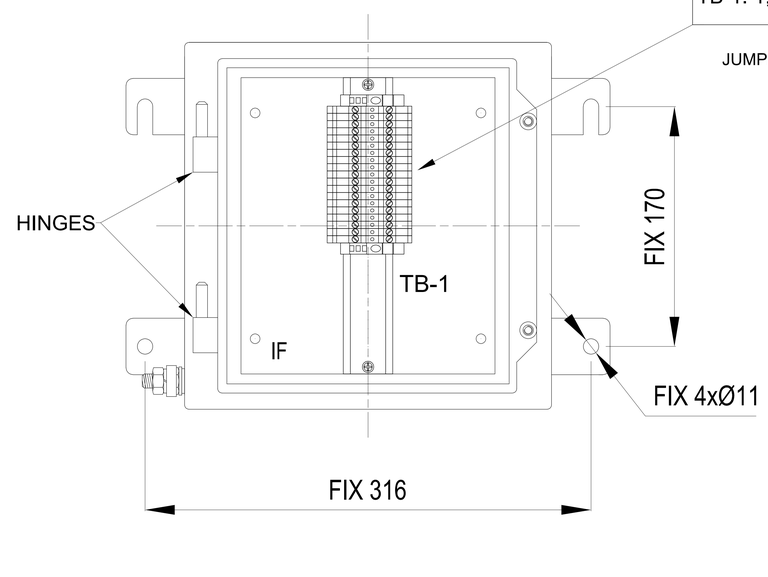

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

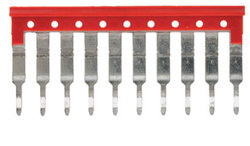



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 11, 12, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 1
- Q.TY: 12
- ART. INFOR: CTB262616S1/C2402708/30.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
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| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
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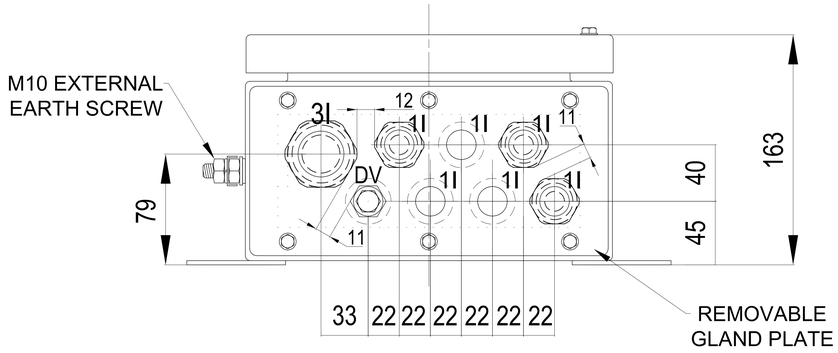
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| TB-1 | 25 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

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DIMENSION: 60x20

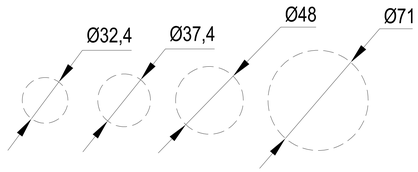
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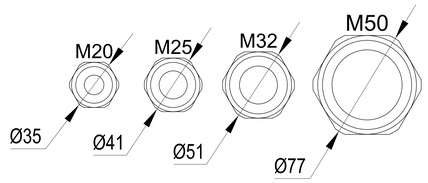
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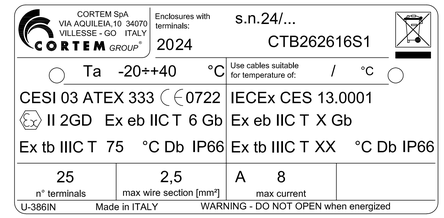

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



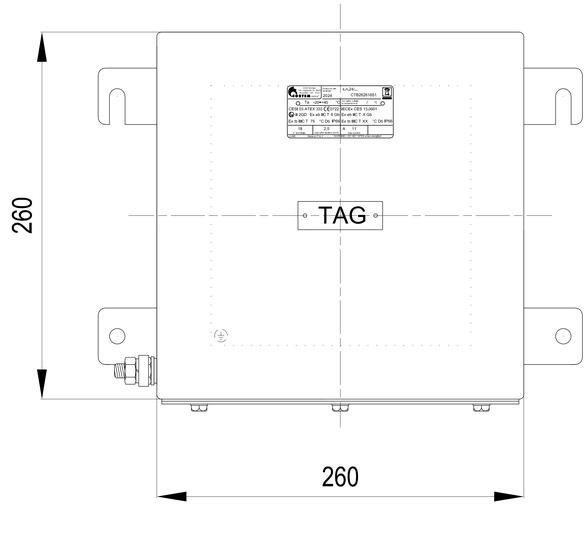

EXAMPLE OF CABLE GLANDS DIAMETERS



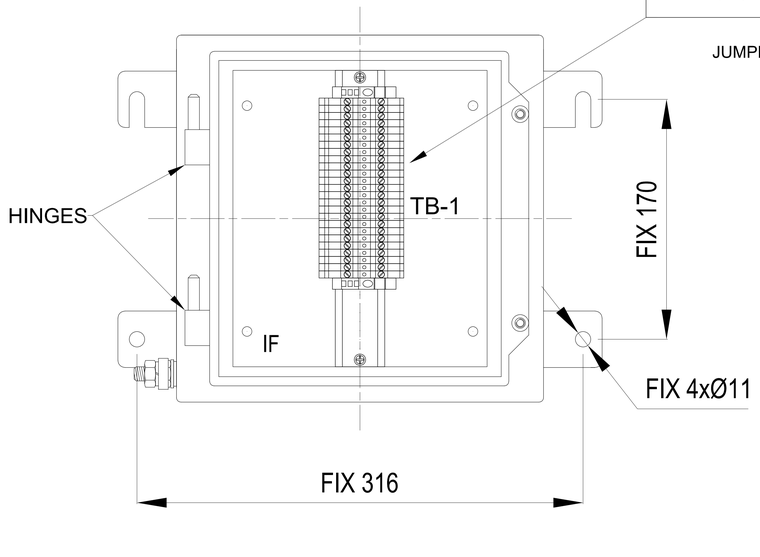

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

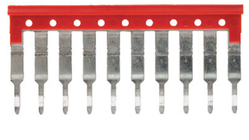



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, 3, SH, 4, 5, 6, SH ..... 16, 17, 18, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 2
- Q.TY: 9
- ART. INFOR: CTB262616S1/C2402708/40.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
002 CTB262616S1/C2402708/40.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 2 NEXT 3
TOT. 11

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MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 3
- Q.TY: 3
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

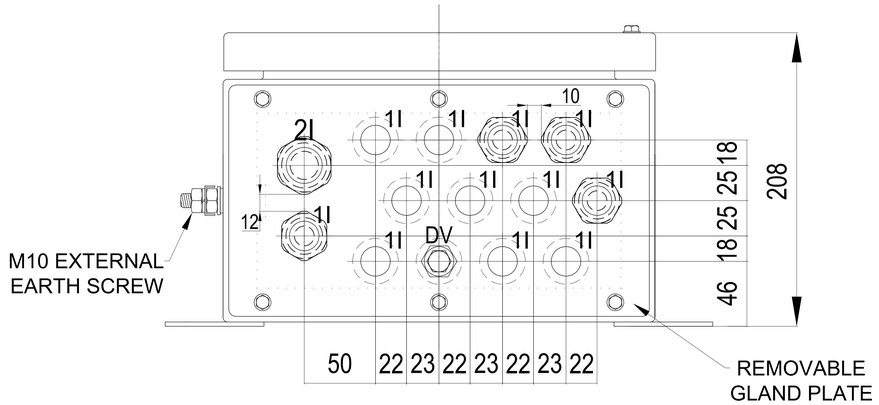
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B30-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 37 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

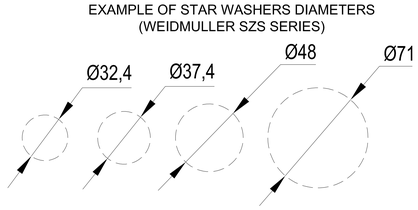
| DESCRIPTION |
|---|
| 00-JE-11002 |
| 00-JE-11004 |
| 00-JE-12005 |

BOTTOM SIDE

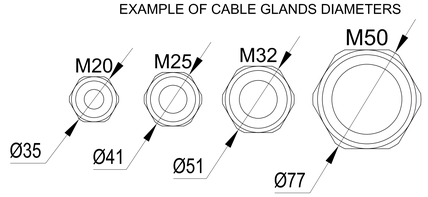
2I - n°1 Ø25.5
1I - n°12 Ø20.5



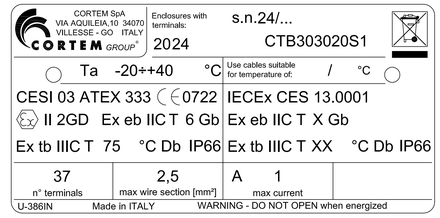

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



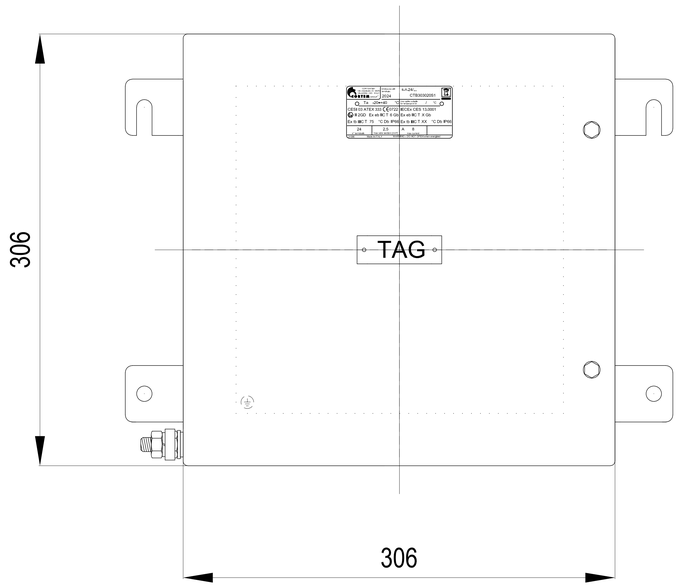

EXAMPLE OF CABLE GLANDS DIAMETERS



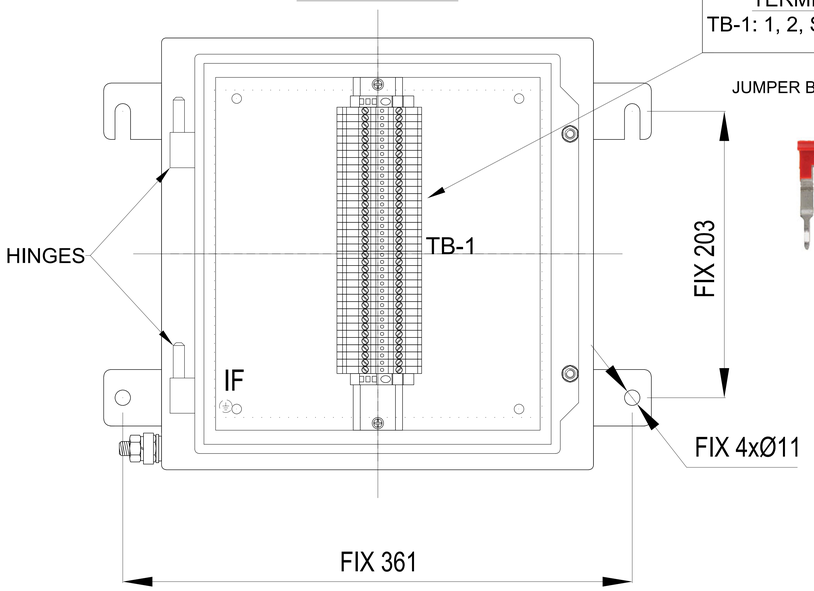

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

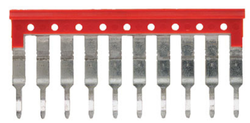



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 23, 24, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 3
- Q.TY: 3
- ART. INFOR: CTB303020S1/C2402708/50..
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
003 CTB303020S1/C2402708/50.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 3 / NEXT 4
TOT. 11

18/167

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MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 4
- Q.TY: 1
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

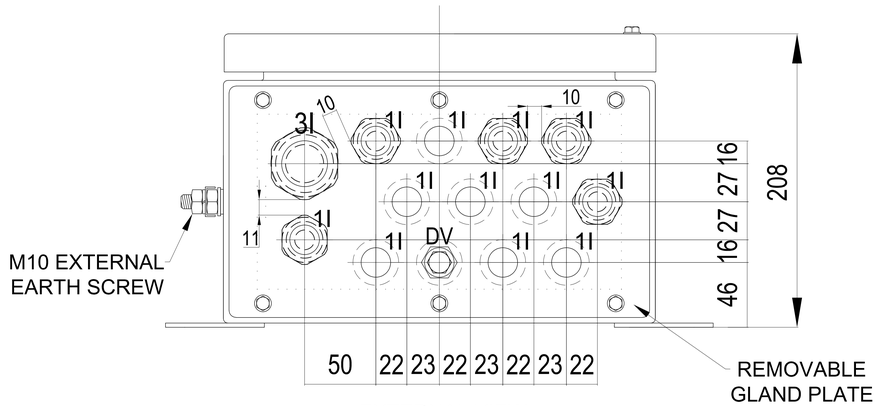
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B30-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 37 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

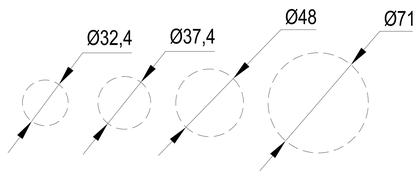
| DESCRIPTION |
|---|
| 00-JE-21001 |

BOTTOM SIDE

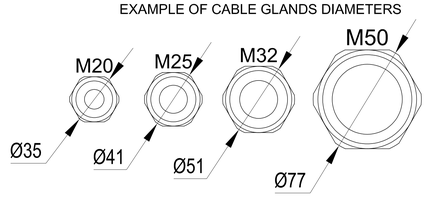
3I - n°1 Ø32.5
1I - n°12 Ø20.5



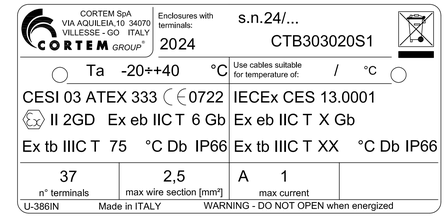

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



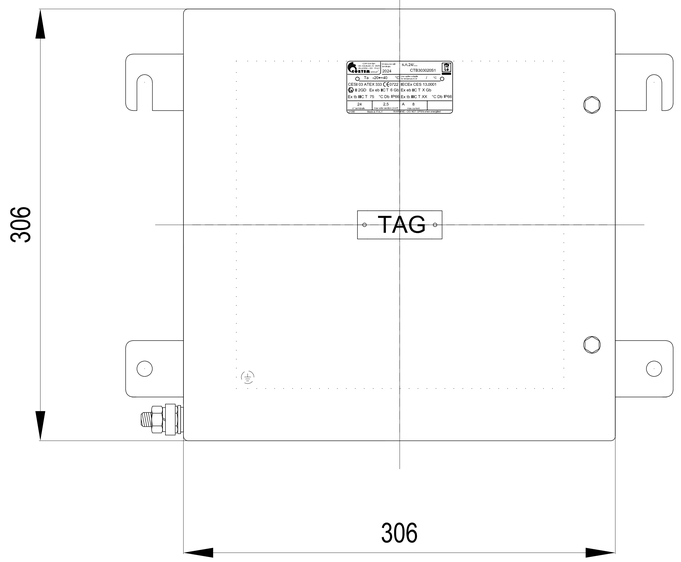

EXAMPLE OF CABLE GLANDS DIAMETERS



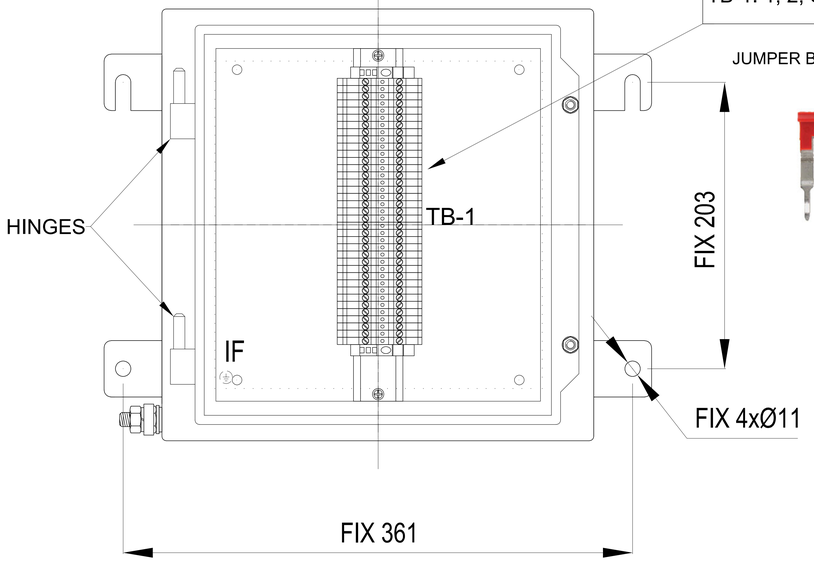

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

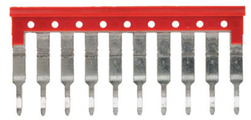



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 23, 24, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 4
- Q.TY: 1
- ART. INFOR: CTB303020S1/C2402708/51.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
004 CTB303020S1/C2402708/51.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 4 / NEXT 5
TOT. 11

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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MODEL C-225 REV.1

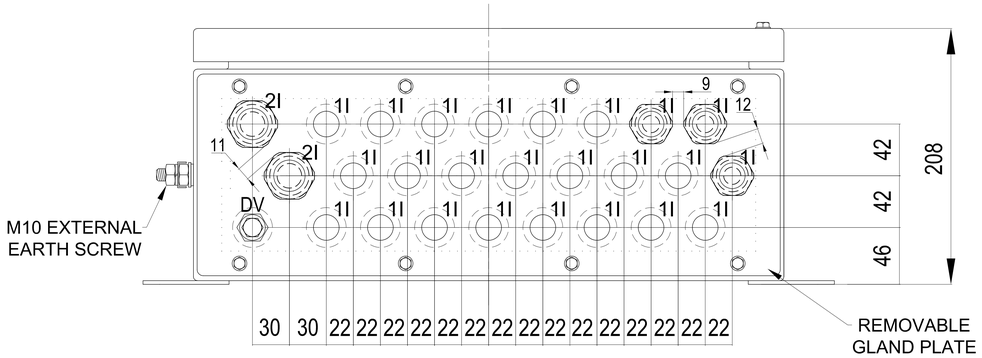
GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 5
- Q.TY: 5
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B48-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 40 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| TB-2 | 40 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

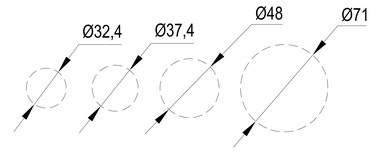
TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

| DESCRIPTION |
|---|
| 00-JE-11001 |
| 00-JE-11003 |
| 00-JE-12001 |
| 00-JE-12004 |
| 00-JE-12006 |

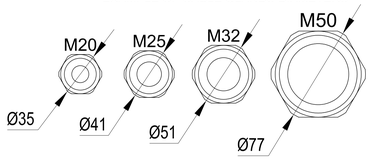
BOTTOM SIDE
2I - n°2 Ø25.5
1I - n°24 Ø20.5



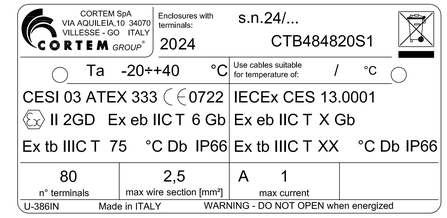

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



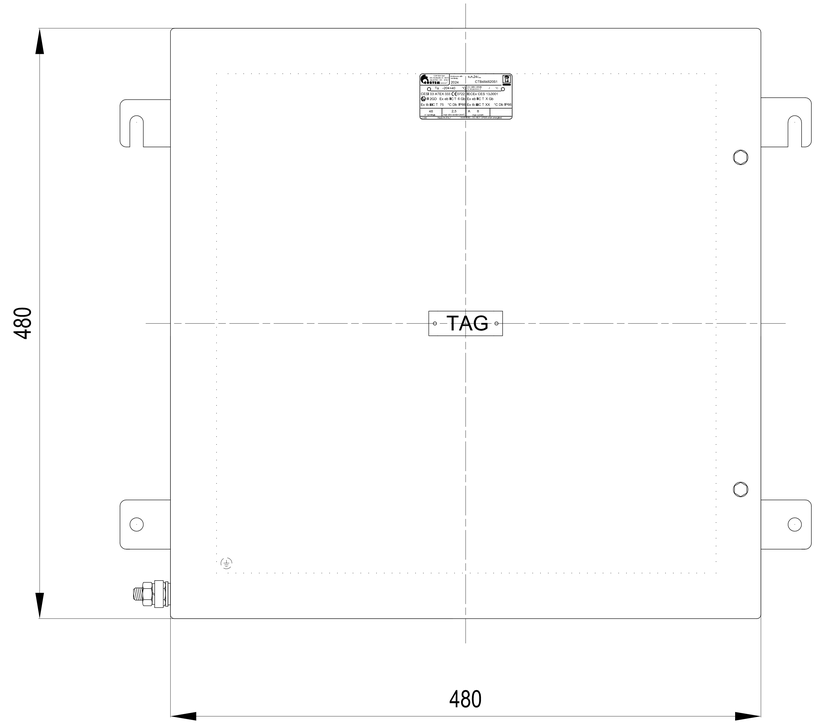

EXAMPLE OF CABLE GLANDS DIAMETERS



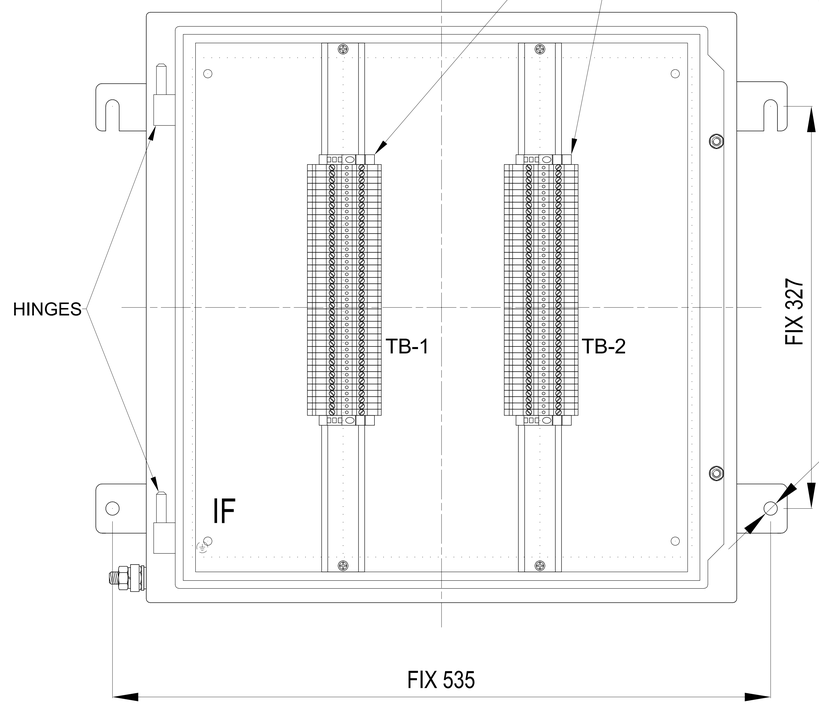

CERTIFICATE NAMEPLATE




EXTERNAL VIEW




INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 23, 24, SH, OS, OS, OS, OS

TERMINAL BLOCK NUMBERING:
TB-2: 25, 26, SH, 27, 28, SH ..... 47, 48, SH, OS, OS, OS, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 5
- Q.TY: 5
- ART. INFOR: CTB484820S1/C2402708/60.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
005 CTB484820S1/C2402708/60.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 5 / NEXT 6 / TOT. 11

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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MODEL C-225 REV.1

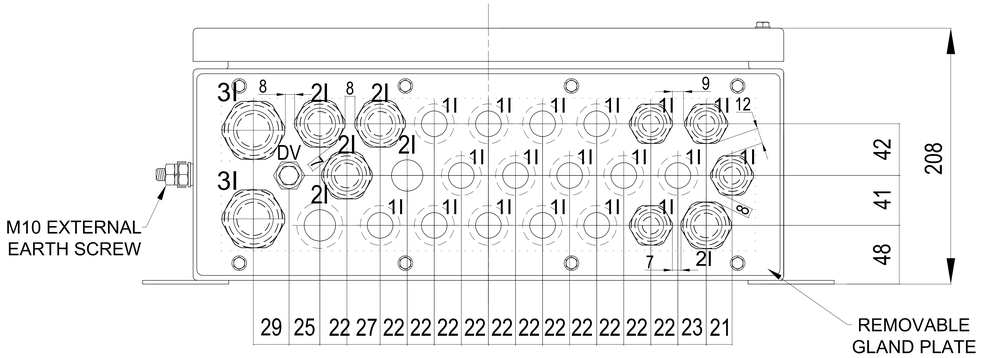
GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 6
- Q.TY: 1
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B48-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 40 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| TB-2 | 40 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

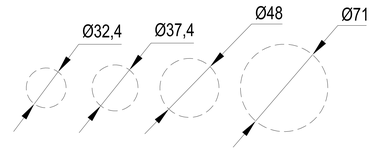
TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

| DESCRIPTION |
|---|
| 00-JE-22001 |

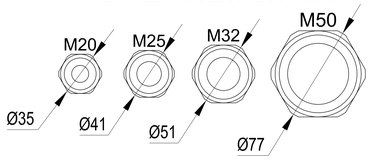
BOTTOM SIDE
3I - n°2 Ø32.5
2I - n°6 Ø25.5
1I - n°18 Ø20.5



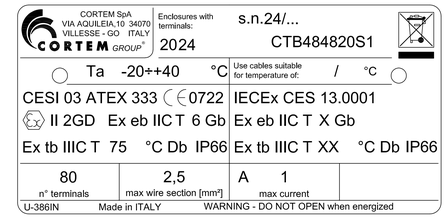

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



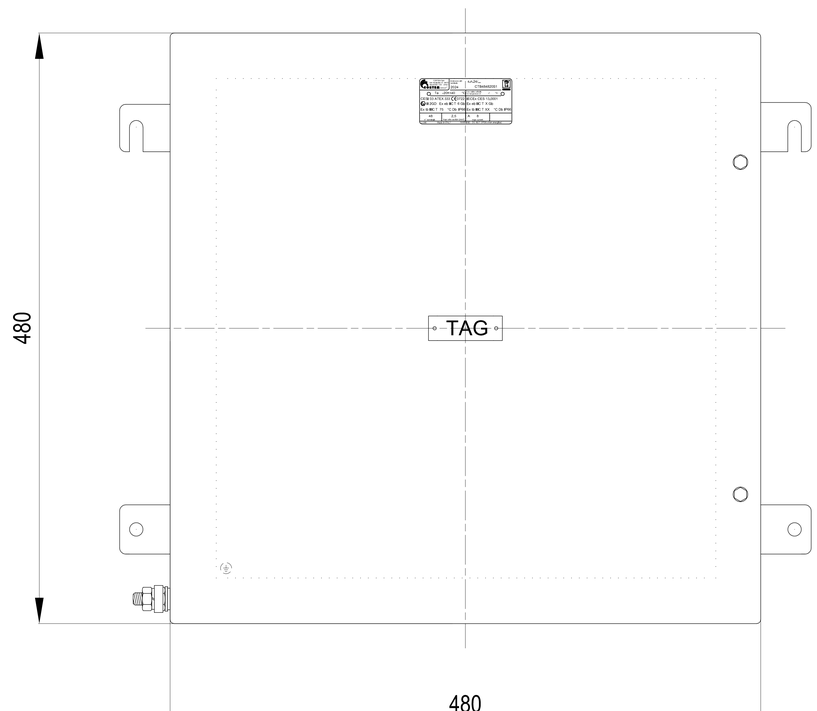

EXAMPLE OF CABLE GLANDS DIAMETERS



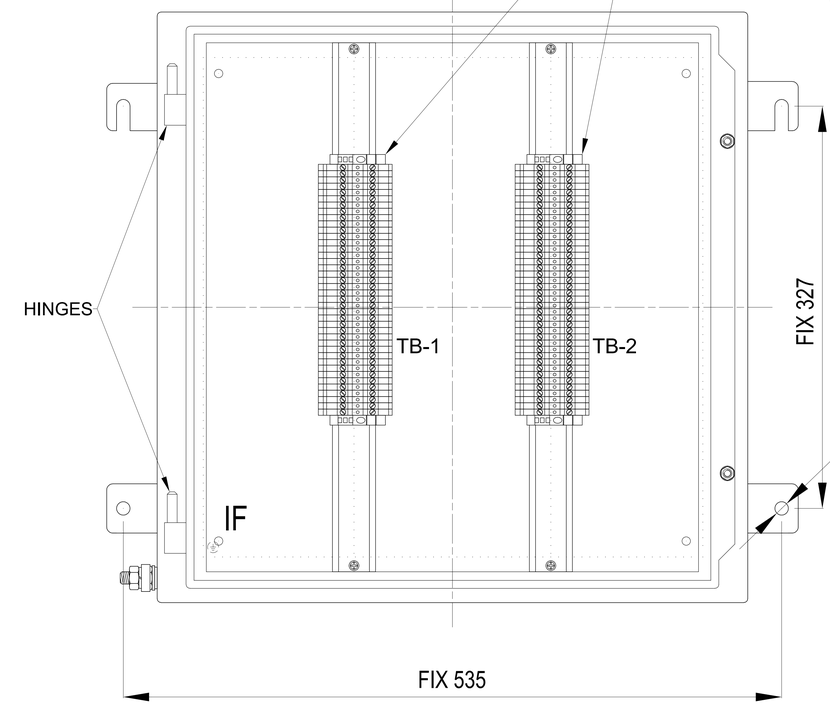

CERTIFICATE NAMEPLATE




EXTERNAL VIEW




INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 23, 24, SH, OS, OS, OS, OS

TERMINAL BLOCK NUMBERING:
TB-2: 25, 26, SH, 27, 28, SH ..... 47, 48, SH, OS, OS, OS, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 6
- Q.TY: 1
- ART. INFOR: CTB484820S1/C2402708/61.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE
ROSETTI MARINO S.P.A.
CORTEM S.p.a.
GENERAL LAYOUT
006 CTB484820S1/C2402708/61.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 6 NEXT 7
TOT. 11

CORTEM GROUP
cortem
FONDISONZO
ELFIT

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S
AUTHORIZATION

Smart Professional R. 2012

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 7
- Q.TY: 1
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

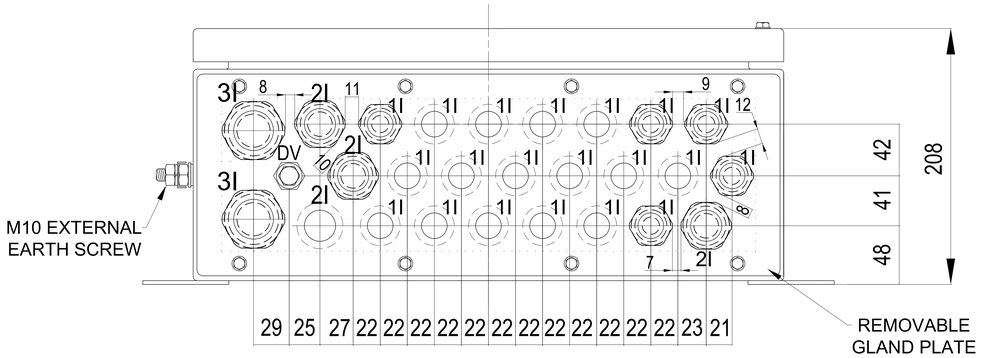
TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

| DESCRIPTION |
|---|
| 00-JE-22002 |

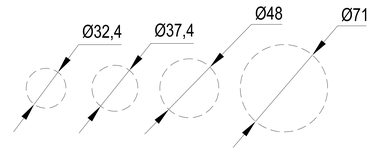
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B48-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 40 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| TB-2 | 40 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

BOTTOM SIDE

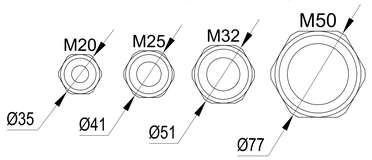
3I - n°2 Ø32.5
2I - n°4 Ø25.5
1I - n°20 Ø20.5



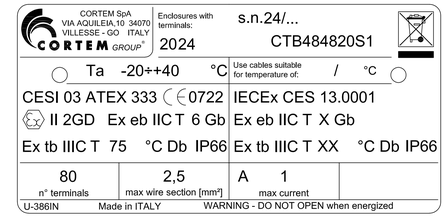

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



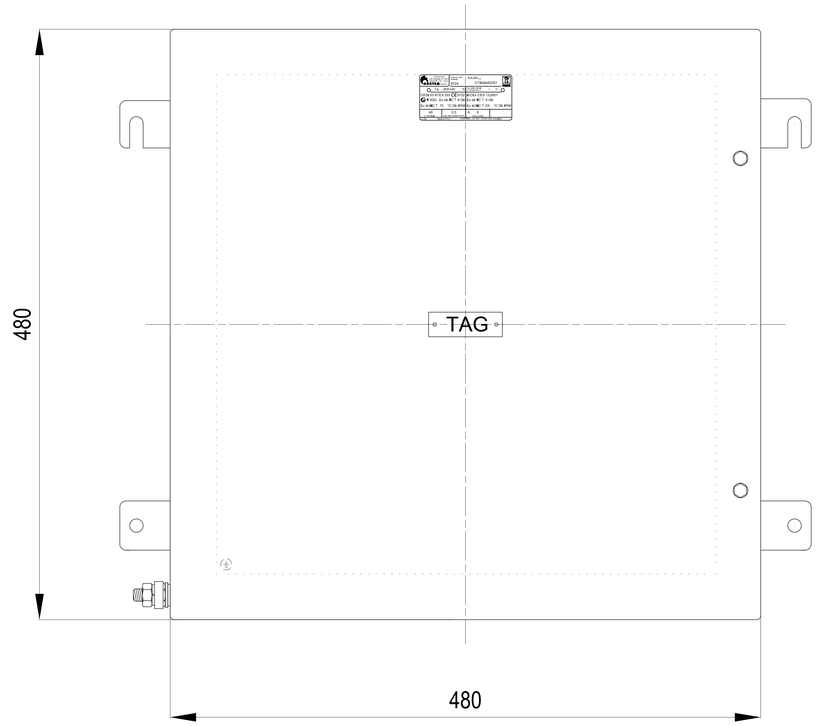

EXAMPLE OF CABLE GLANDS DIAMETERS



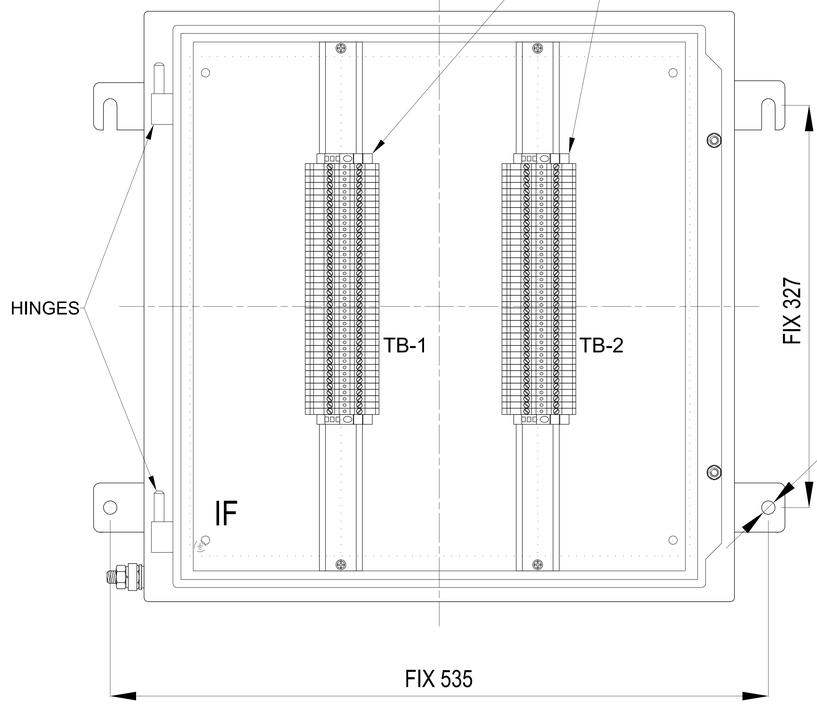

CERTIFICATE NAMEPLATE




EXTERNAL VIEW




INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 23, 24, SH, OS, OS, OS, OS

TERMINAL BLOCK NUMBERING:
TB-2: 25, 26, SH, 27, 28, SH ..... 47, 48, SH, OS, OS, OS, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 7
- Q.TY: 1
- ART. INFOR: CTB484820S1/C2402708/62.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
007 CTB484820S1/C2402708/62.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET: 7
NEXT: 8
TOT.: 11

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Smart Professional R. 2012

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 8
- Q.TY: 4
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

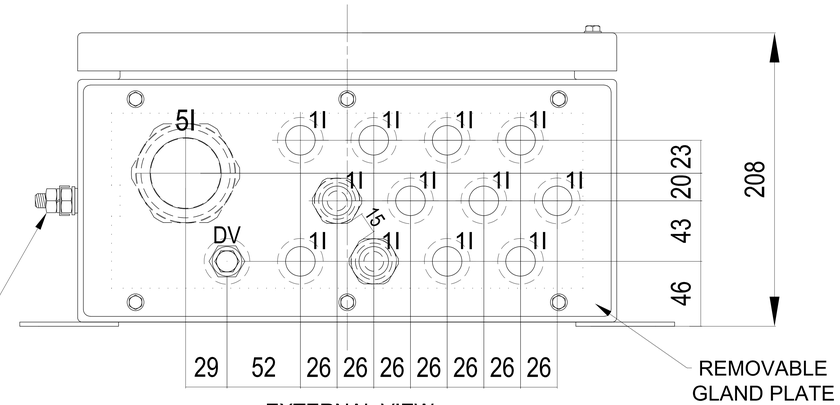
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B45-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 49 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

| DESCRIPTION |
|---|
| 950-JE-02101 |
| 950-JE-02102 |
| 950-JE-03101 |
| 950-JE-05101 |

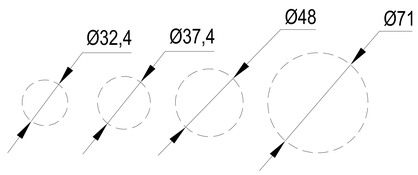
BOTTOM SIDE

5I - n°1 Ø50.5
1I - n°12 Ø20.5

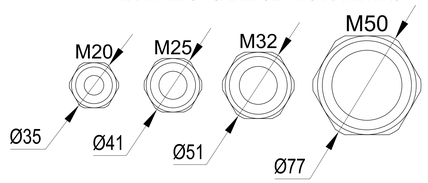



EXTERNAL VIEW

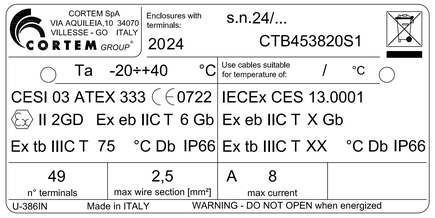
EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)

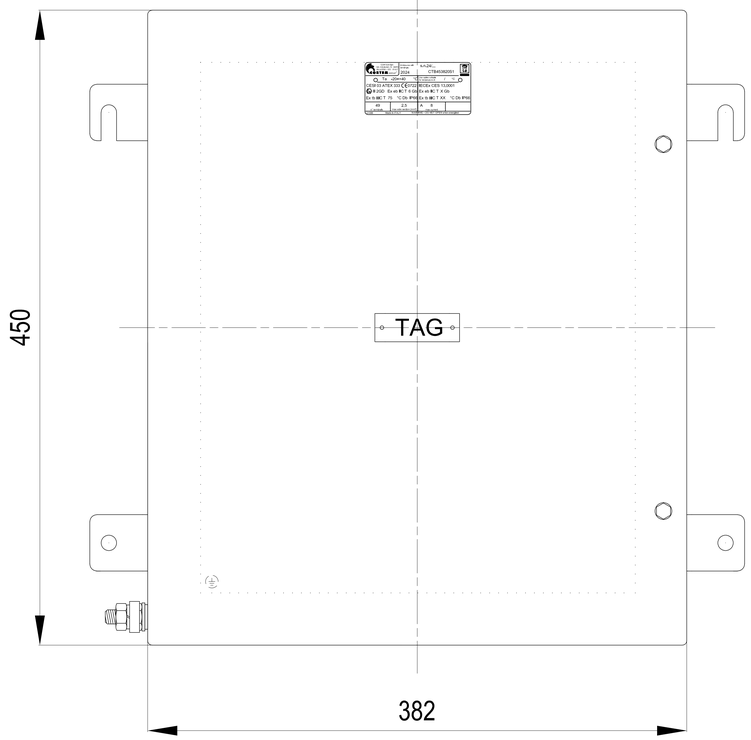



EXAMPLE OF CABLE GLANDS DIAMETERS

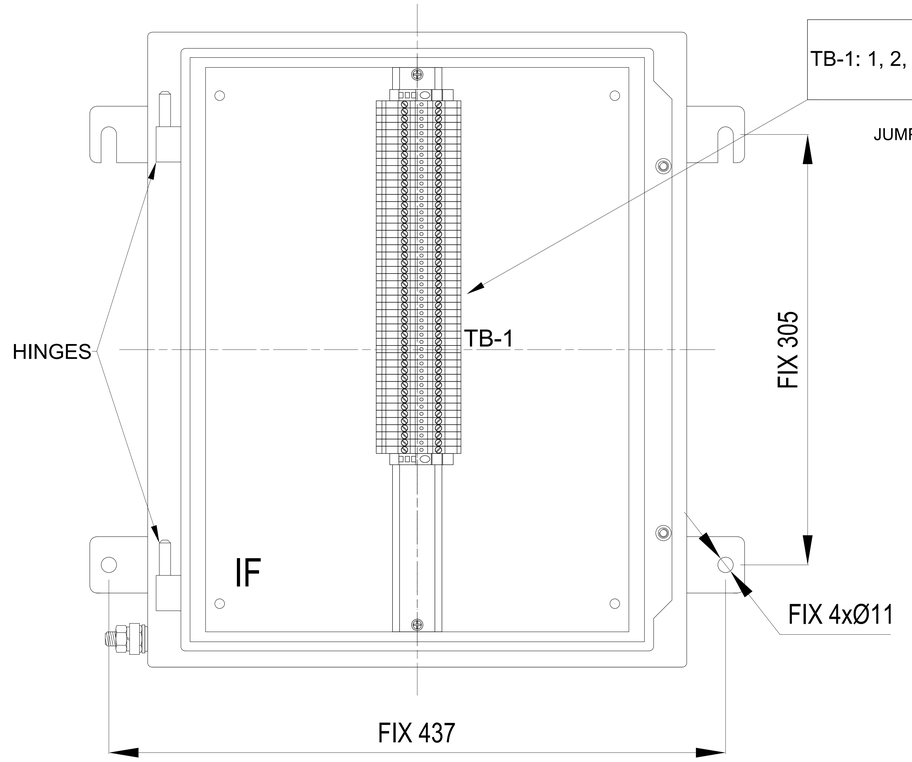



CERTIFICATE NAMEPLATE



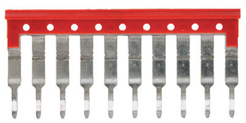




INTERNAL VIEW




TB-1: 1, 2, 3, SH, 4, 5, 6, SH ..... 34, 35, 36, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 8
- Q.TY: 4
- ART. INFOR: CTB453820S1/C2402708/70.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
008 CTB453820S1/C2402708/70.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 8 / NEXT 9 / TOT. 11

CORTEM GROUP

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MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 9
- Q.TY: 11
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

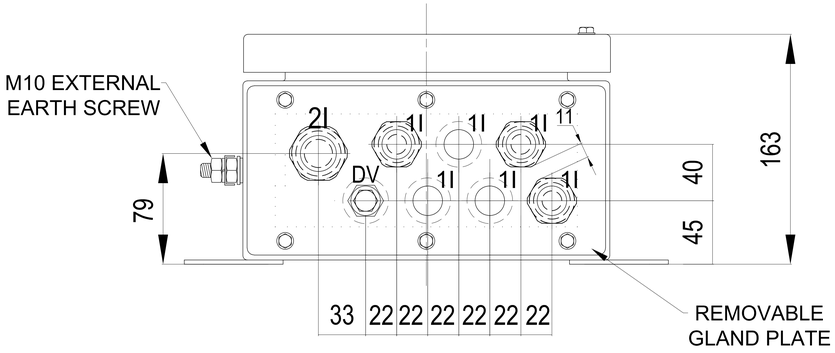
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B26-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 19 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

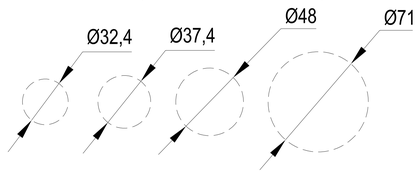
| DESCRIPTION |
|---|
| 00-JE-13003 |
| 00-JE-23002 |
| 950-JE-01104 |
| 950-JE-02104 |
| 950-JE-03104 |
| 950-JE-04103 |
| 950-JE-04203 |
| 950-JE-05103 |
| 950-JE-06103 |
| 950-JE-06203 |
| 950-JE-07101 |

BOTTOM SIDE

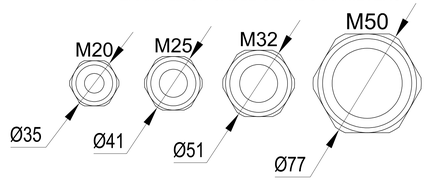
2I - n°1 Ø25.5
1I - n°6 Ø20.5



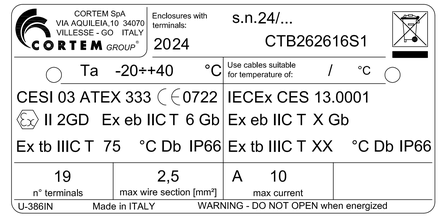

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



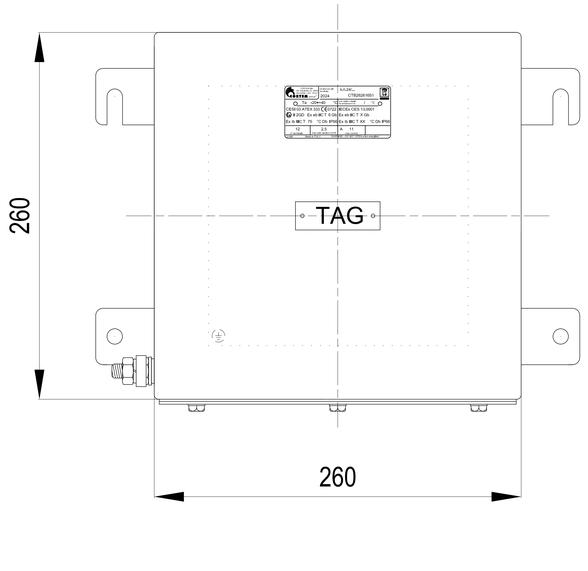

EXAMPLE OF CABLE GLANDS DIAMETERS



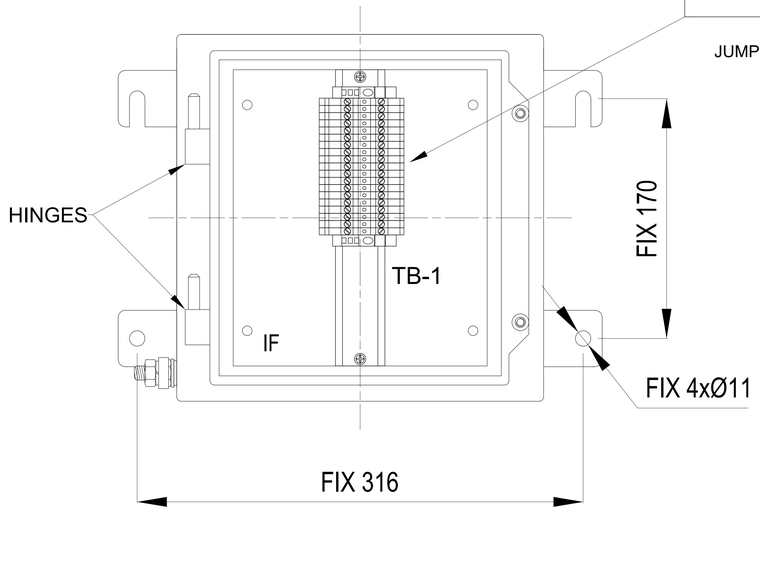

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

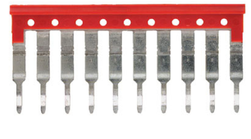



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 11, 12, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 9
- Q.TY: 11
- ART. INFOR: CTB262616S1/C2402708/80.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE

ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
009 CTB262616S1/C2402708/80.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET: 9
NEXT: 10
TOT.: 11

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Smart Professional R. 2012

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 10
- Q.TY: 4
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: NOT PAINTED
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

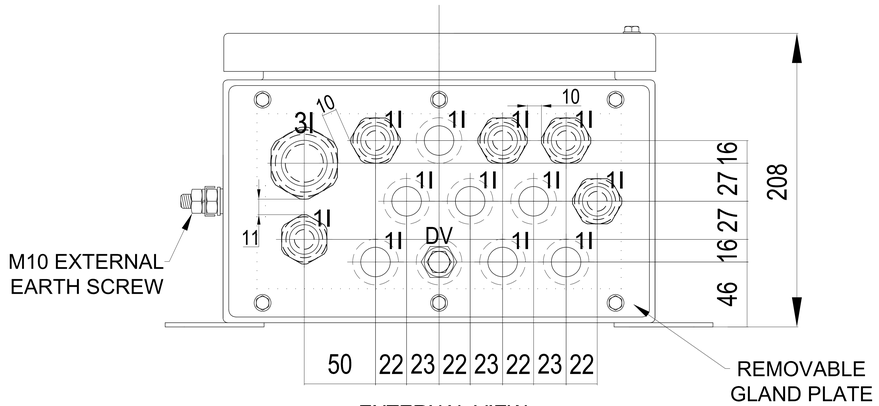
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B30-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 37 | WDU2,5A | Ex eb TERMINAL BLOCK 2,5mmq BEIGE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

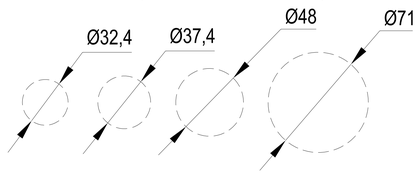
| DESCRIPTION |
|---|
| 00-JE-13001 |
| 00-JE-13002 |
| 00-JE-23001 |
| 950-JE-04207 |

BOTTOM SIDE

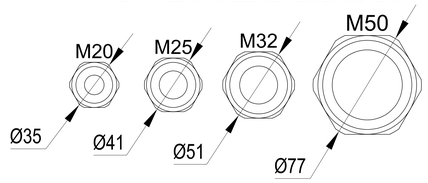
3I - n°1 Ø32.5
1I - n°12 Ø20.5



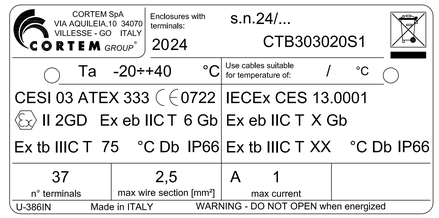

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



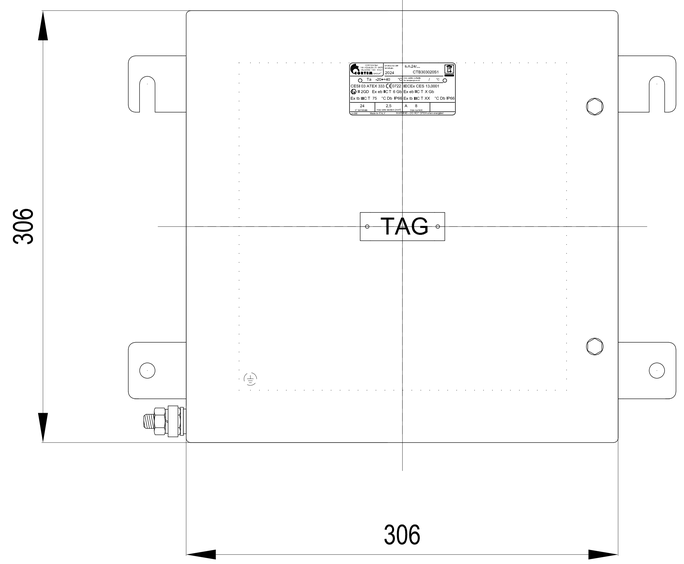

EXAMPLE OF CABLE GLANDS DIAMETERS



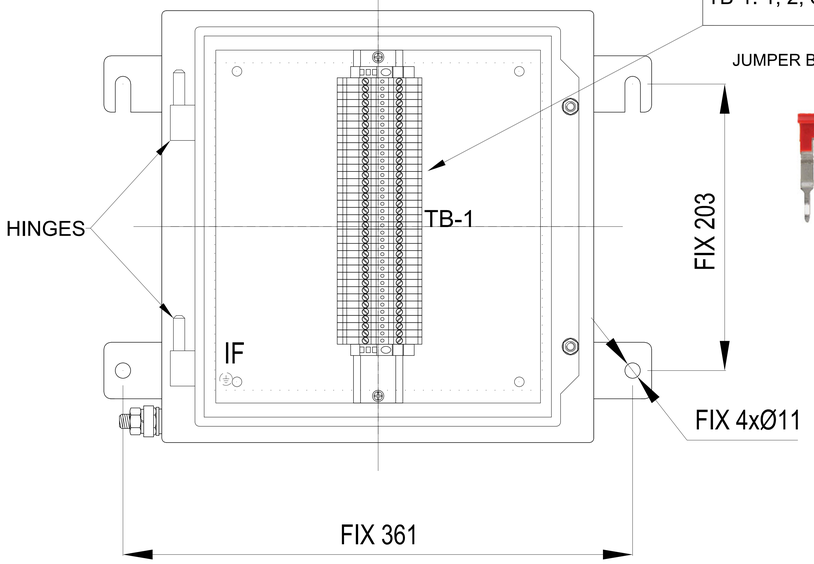

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

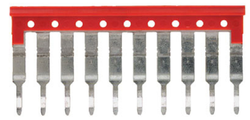



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 23, 24, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 10
- Q.TY: 4
- ART. INFOR: CTB303020S1/C2402708/90.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
010 CTB303020S1/C2402708/90.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 10 / NEXT 11
TOT. 11

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AND IT CANNOT BE REPRODUCED WITHOUT CORTEM'S AUTHORIZATION

Smart Professional R. 2012

MODEL C-225 REV.1

GENERAL NOTE:
- PO: 1724001299 DD 27/06/2024
- ITEM.: 11
- Q.TY: 3
- JB MATERIAL: INOX316L
- EXTERNAL PAINTING: RAL5015
- INTERNAL PAINTING: NOT PAINTED
- ALL DIMENSIONS ARE IN mm

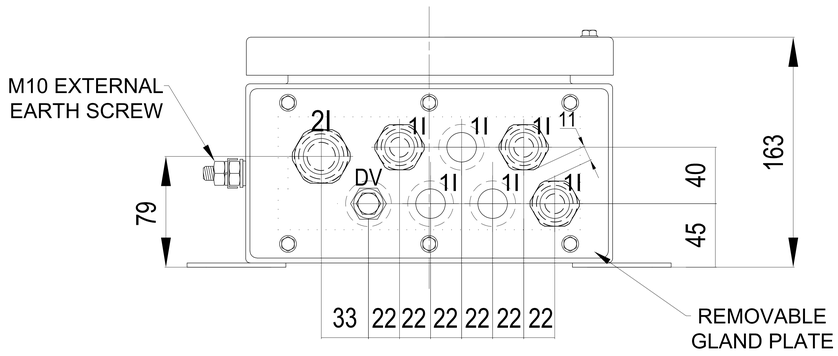
| N° | Q.TY | CODE | DESCRIPTION |
|---|---|---|---|
| IF | 1 | B26-443 | INTERNAL MOUNTING FRAME |
| TB-1 | 19 | WDU2,5EXIA | Ex eb TERMINAL BLOCK 2,5mmq BLUE COLOUR (WEIDMULLER) |
| DV | 1 | ECDE-D1S | Ex eb IIC Gb INOX DRAIN VALVE ISO M20x1.5 |

TAG LIST
MATERIAL: INOX
DIMENSION: 60x20

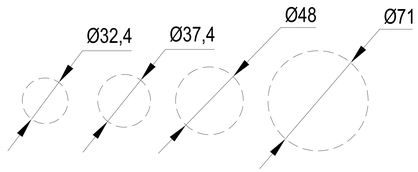
| DESCRIPTION |
|---|
| 950-JE-04204 |
| 950-JE-04208 |
| 950-JE-06204 |

BOTTOM SIDE

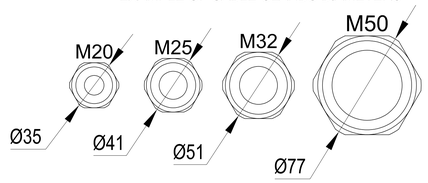
2I - n°1 Ø25.5
1I - n°6 Ø20.5



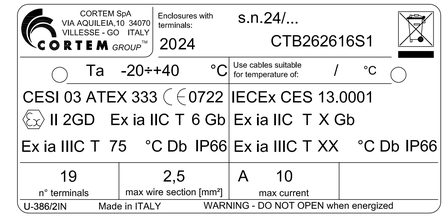

EXAMPLE OF STAR WASHERS DIAMETERS (WEIDMULLER SZS SERIES)



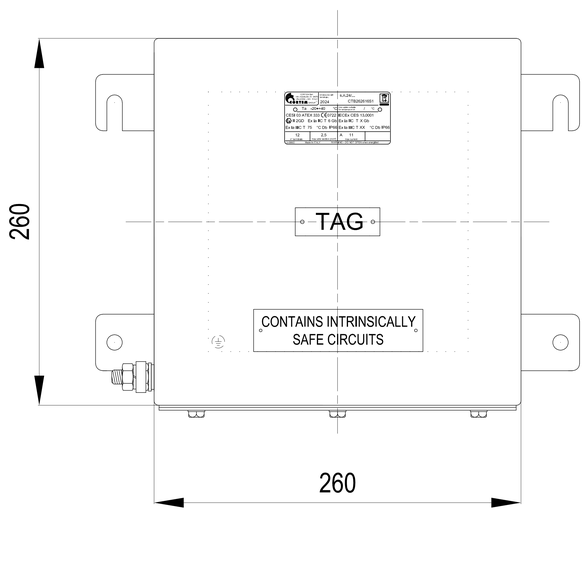

EXAMPLE OF CABLE GLANDS DIAMETERS



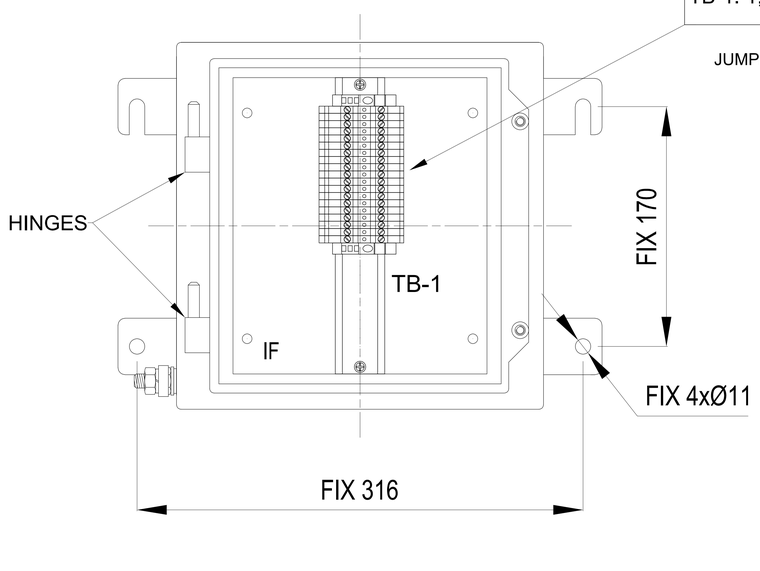

CERTIFICATE NAMEPLATE




EXTERNAL VIEW

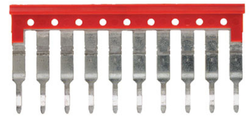



INTERNAL VIEW




TERMINAL BLOCK NUMBERING:
TB-1: 1, 2, SH, 3, 4, SH ..... 11, 12, SH, OS

NOTE:
JUMPER BAR CONNECTED TO ALL "SH" AND "SHT" TERMINALS



NOTE CORTEM:
- COMM: COV2402708
- RIGA: 11
- Q.TY: 3
- ART. INFOR: CTB262616S1/C2402708/100.
- METTERE LA MORSETTIERA PIU' IN ALTO POSSIBILE E LA BARRA DIN PIU' LUNGA POSSIBILE

REV.4 - 18/07/2024 - FRATTARUOLO

| REV. | DATE | PREP'D | CHK'D | APP'D | DESCRIPTION |
|---|---|---|---|---|---|
| 5 | 08/08/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR CONSTRUCTION (IFC) |
| 4 | 18/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 3 | 17/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 2 | 16/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 1 | 10/07/2024 | FRATTARUOLO | GIUSTI | GRATTON | REISSUED FOR APPROVAL |
| 0 | 28/06/2024 | FRATTARUOLO | GIUSTI | GRATTON | ISSUED FOR APPROVAL |

DRAWING TITLE: ROSETTI MARINO S.P.A.

CORTEM S.p.a.
GENERAL LAYOUT
011 CTB262616S1/C2402708/100.

CORTEM JOB: COV2402708
DRAWING SCALE: /
DRAWING NUMBER: A3-C 27524
SHEET 11 / NEXT /
TOT. 11

CORTEM GROUP

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Smart Professional R. 2012

PART 1 – DESIGN DOSSIER

- Project Procedures and Specification

- Manufacturing and Testing procedures – Cortem internal Procedure No. I37.04

- Installation, Operation and Maintenance Manual – Doc. No. 1724001299-IN-MAN-00008

# F.A.T.

# FACTORY ACCEPTANCE TEST PROCEDURES

***SUMMARY***


1. **SCOPE**
2. **REQUIREMENTS FOR TEST AND INSPECTION**
3. **OPERATIVE FORMALITIES**
4. **RESPONSABILITIES**
5. **REFERENCES**
6. **SCOPE OF INSPECTION**


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## 1. SCOPE

The present operative instruction is issued for formulation of the tests and inspections for all assembled and produced by Cortem spa according to its own standards or to customers' specification.

## 2. REQUIREMENTS FOR TESTS AND INSPECTION

The tests made to verify the characteristics of an apparatus include:

- Apparatus Inspection
- Check of correct installation of components
- Check number of terminals
- Dieletric test ( if applicable )
- Electrical performance ( if applicable )
- Insulation resistance ( if applicable )

## 3. OPERATIVE FORMALITIES

A) Test Activities:

- Verification of the conformity to the order specifications and compliance with the drawings:
- Dimensional check
- Check of quantity
- Check of machining tolerance
- Check of threads
- Check of surface treatments
- Check of protection degree
- Check of marking
- Check of *Ex-d, Ex-e, Ex-I* certificates

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- Check of earthing connections
- Dieletric Test ( if applicable )
- Electrical performance ( if applicable )
- Insulation resistance ( if applicable )
- Test of surface treatments
- Test of mechanical operation

B) Functioning at nominal voltage:

- Check of correct installation of components
- Reading and check of the instruments ( if applicable )
- Verification of the correct functioning of all parts in nominal and / or automatic service ( if applicable )

C) Applied Voltage Test ( Dielectric Test )

C.1) Low-voltage switchgear & controlgear assemblies ( see TAB.1 & TAB.2 )

- The test voltage must be applied between all the active parts and the earth of the apparatus for 1".

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**TAB.1 Test for Power Circuit:**

| *Rated insulation voltage Ui* | *Dielectric test voltage a.c.* |
|---|---|
| Ui < 60 | 1000 |
| 60 < Ui < 300 | 1500 |
| 300<Ui<690 | 1890 |
| 690<Ui<800 | 2000 |
| 800<Ui<1000 | 2200 |

**TAB.2 Test for Auxiliary Circuit:**

| *Rated insulation voltage Ui* | *Dielectric test voltage a.c.* |
|---|---|
| Ui < 12 | 250 |
| 12 < Ui < 60 | 500 |
| Ui > 60 | 2 Ui + 1000 |

C.2) The test voltage ( 1800Vac ) must be applied between all the active parts and the earth of the apparatus for 10" ( if applicable ).

D) Test of insulating resistance

- As an alternative for ASSEMBLIES with incoming protection rated up to 250A the verification of insulation resistance may be by measurement using an insulation measuring device at a voltage of at least 500 V d.c.
- In this case, the test is satisfactory if the insulation resistance between circuits and exposed conductive parts is at least 1000 Ohm/V per circuit referred to the supply voltage to earth of these circuits.

## 4. RESPONSIBILITY

The Quality Assurance has the responsibility to supervise the correct application of what described in this document. The Project and Inspection department is responsible of the recording and execution of these operative instructions.

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## 5. REFERENCES

- Quality Manual Section 3.5.3
- Quality Control Plan
- 2014/34/UE ATEX and IECEx directive
- Check of correct installation of components
- European Directive 2014/34/UE
- EN ISO IEC 80079-34
- Quality and Environmental Integrated Manual (Cortem Group)
- EN 50014
- EN 60079-0
- EN 60079-1
- EN 60079-7
- EN 50020
- EN 60079-11
- EN 60079-15
- EN 50281
- EN 61241-0
- EN 61241-1
- ISO 10005 “Guide for drawing up Quality Plans”
- IEC 60079-0
- IEC 60079-1
- IEC 60079-7
- IEC 60079-11
- IEC 60079-15
- IEC 61439-1
- IEC 61439-2
- IEC 61241-0
- IEC 61241-1
- Ex IECEx 002 Rules
- Enforceable product specifications and regulations as indicated in the “List of regulations” Mod. C-212
- *Brazilian administrative rule 179*

Documento di proprietà di Cortem SpA con diritti tutelati a norma di legge

## 6. SCOPE OF INSPECTION

- Visual and Dimensional Check
- Dielectric Test ( if applicable )
- Electrical performance ( if applicable )
- Insulation resistance ( if applicable )

### 6.1 METHOD OF TESTING

- Visual and Dimensional Check
- Dielectric Test with SCHLEICH GLP1 e
- Insulation Test with SCHLEICH GLP1 e
- Thickness Test with GAUGE THICKNESS

### 6.2 INSTRUMENT EQUIPMENT FOR THE TESTING

- INSTRUMENT SCHLEICH GLP1 e
  ( for Dielectric Test )
- INSTRUMENT SCHLEICH GLP1 e
  ( for Insulation Test )
- GAUGE THICKNESS matr. 080206XGF
  ( for tickness test )

### 6.3 ACCEPTANCE CRITERIA

- As per drawings approved
- Dielectric Test ( as per TAB.1 & TAB.2 for Distribution Control Panels )
  shall not trip when the output current is less than 100mA.
  For all others Cortem products the Dielectric Test will be as per § C.2.
- Insulation Test as per § D ( if applicable )
- Functional Test ( if applicable )
- Final Test Report

| Preparato da | Approvato da Direzione |
|---|---|
| P.Riganti | A.Rossi |

Documento di proprietà di Cortem SpA con diritti tutelati a norma di legge

# Base Load Power Hub (BLPH)

INS JB

INSTALLATION, OPERATING AND MAINTENANCE MANUAL

Document Number: 1724001299-IN-MAN-00008

Document Class: 3

ROSETTI MARINO

| | |
|---|---|
| 1 | NO COMMENTS - APPROVED - WORK MAY PROCEED |
| 2 | MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED |
| 3 | MAJOR COMMENTS – REJECTED – DO NOT PROCEED |
| 4 | APPROVAL NOT REQUIRED |

*NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.*

| Sign | Date |
|---|---|
| V. Barratta | 30-08-2024 |

| Rev. | Date | Description | Prepared | Reviewed | Approved |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| 02 | 28/08/2024 | Issue for Information (IFI) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |
| 01 | 07/08/2024 | Issue for Information (IFI) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |
| 00 | 22/07/2024 | Issue for Information (IFI) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |

CORTEM GROUP
To be sure to be safe.

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| 2 | Table of Contents | X | X | X | | | | | |
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Revision / Change Log

| Rev. | Description |
|---|---|
| 00 | Issue for Information (IFI) |
| 01 | Issue for Information (IFI) |
| 02 | Issue for Information (IFI) |
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CORTEM GROUP®

# SCATOLE PORTA MORSETTI SERIE SA ... CTB ...
# ISTRUZIONI DI SICUREZZA,
# USO E MANUTENZIONE

# Terminal boxes series SA ... CTB ...
# safety, maintenance
# and mounting instructions

IN ACCORDO ALLA DIRETTIVA 2014/34/EU
ED IN ACCORDO ALLO SCHEMA IECEx

according to directive 2014/34/EU
and according to IECEx scheme

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fax +39 02 73 83 402
infomilano@cortemgroup.com

EXPORT SALES
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fax +39 02 73 83 402
export@cortemgroup.com

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Tel. +39 0481-964911 fax + 39 0481-964999
info@cortemgroup.com

SCATOLE CON MORSETTI SERIE SA. .. CTB ...
ISTRUZIONI DI SICUREZZA, USO E MANUTENZIONE

Increased safety terminal boxes series SA. .. CTB ...
safety, maintenance and mounting instruction

CONFORMITÀ ALLE NORMATIVE STANDARD

SCATOLE MORSETTI SA. .. CTB ...
COSTRUITE IN ACCORDO ALLE NORMATIVE

| | |
|---|---|
| EN 60079-0:2018 | IEC 60079-0:2017 |
| EN 60079-7:2015 | IEC 60079-7:2015 |
| EN 60079-11:2012 | IEC 60079-11:2011 |
| EN 60079-31:2014 | IEC 60079-31:2013 |
| IN ACCORDO ALLA DIRETTIVA 2014/34/EU | IN ACCORDO ALLO SCHEMA IECEx |

ISTRUZIONI DI SICUREZZA

RIVOLTE A PERSONALE QUALIFICATO IN ACCORDO CON LE LEGGI NAZIONALI, INCLUSE LE RELATIVE NORME E, DOVE APPLICABILE, IN ACCORDO CON IEC 60079-17 RIGUARDANTE LE APPARECCHIATURE ELETTRICHE PER ATMOSFERE POTENZIALMENTE ESPLOSIVE

- LA CUSTODIA NON DEVE ESSERE INSTALLATA IN AREA PERICOLOSA ZONA 0

- DEVONO ESSERE RISPETTATI I DATI TECNICI INDICATI SULLA TARGHETTA DELLA CUSTODIA

- NON SONO AMMESSE MODIFICHE AL PRODOTTO

- LA CUSTODIA PUÒ ESSERE INSTALLATA SOLO SE COMPLETAMENTE INTEGRA

- DEVONO ESSERE UTILIZZATE ESCLUSIVAMENTE PARTI DI RICAMBIO CORTEM

- LE OPERAZIONI DI MANUTENZIONE ORDINARIE E STRAORDINARIE DEVO ESSERE EFFETTUATE SOLO DA ELETTRICISTI QUALIFICATI CON L'APPROVAZIONE DI PERSONALE "ESPERTO"

- TOGLIERE LE PRESENTI ISTRUZIONI DALL'INTERNO DELLA CUSTODIA DURANTE IL FUNZIONAMENTO

- DEVONO ESSERE STRETTAMENTE OSSERVATE LE NORME NAZIONALI DI SICUREZZA E PREVENZIONE INFORTUNI, E LE PRESCRIZIONI INDICATE CON "⚠" NEL PRESENTE FASCICOLO TECNICO

Conformity with standards

Terminal boxes SA ... CTB ...
manufactured according to standards

| | |
|---|---|
| EN 60079-0:2018 | IEC 60079-0:2017 |
| EN 60079-7:2015 | IEC60079-7:2015 |
| EN 60079-11:2012 | IEC 60079-11:2011 |
| EN 60079-31:2014 | IEC 60079-31:2013 |
| according to Directive 2014/34/EU | according to IECEx schema |

safety instruction

for skilled electricians and instructed personnel in accordance with national legislation, including the relevant standards and, where applicable, in accordance with IEC 60079-17 on electrical apparatus for explosive atmospheres

- the terminal boxes must not be operated in zone 0 hazardous areas

- the technical data indicated on nameplate of terminal boxes are to be observed

- changes of the design and modifications to the terminal box are not permitted

- the terminal box shall be operated as intended and only in undamaged and perfect condition

- only genuine CORTEM spare parts may be used for replacement

- repairs may only be carried out by qualified electrician and will subsequently have to be checked by an "expert"

- do not keep these operating instruction inside the terminal box during operation

- the national safety rules and regulations for prevention of accidents and the following safety instruction which are marked with an "⚠" in these operating instruction, will have to be observed

ESECUZIONI: Marking:

| *CESI 03 ATEX 333* | *IECEX CES 13.0001* |
|---|---|
| ⟨Ex⟩ II 2GD<br>Ex eb IIC T6/T5/T4 Gb<br>Ex tb IIIC T75°C/T110°C Db<br>IP66 | Ex eb IIC T6/T5/T4 Gb<br>Ex tb IIIC T75°C/T110°C Db<br>IP66 |
| ⟨Ex⟩ II 2GD<br>Ex eb ia IIC T6/T5/T4 Gb<br>Ex tb ia IIIC T75°C/T110°C Db<br>IP66 | Ex eb ia IIC T6/T5/T4 Gb<br>Ex tb ia IIIC T75°C/T110°C Db<br>IP66 |
| ⟨Ex⟩ II 2GD<br>Ex ia IIC T6/T5/T4 Gb<br>Ex ia IIIC T75°C/T110°C Db<br>IP66 | Ex ia IIC T6/T5/T4 Gb<br>Ex ia IIIC T75°C/T110°C Db<br>IP66 |

CUSTODIE CONTENENTI MORSETTI A SICUREZZA AUMENTATA IN ACCORDO ALLA NORMA EN 60079-7, IEC 60079-7.
CUSTODIE CONTENENTI MORSETTI A SICUREZZA AUMENTATA E A SICUREZZA INTRINSECA IN ACCORDO ALLE NORME EN 60079-7, EN 60079-11, IEC 60079-7, IEC 60079-11.
CUSTODIE CONTENENTI MORSETTI A SICUREZZA INTRINSECA IN ACCORDO ALLA NORMA EN 60079-11, IEC 60079-11.
Boxes with increased safety terminals according to EN 60079-7, IEC 60079-7.
Boxes with increased safety and intrinsic safety terminals according to EN 60079-7, EN 60079-11, IEC 60079-7,1EC 60079-11.
Boxes with intrinsic safety terminals accordinI to EN 60079-11, IEC 60079-11.

CORTEM GROUP è da sempre impegnata nella salvaguardia dell'ambiente ed in tal senso raccomanda di smaltire i contenitori e gli imballaggi usati secondo le prescrizioni e le normative vigenti nel Paese di destinazione, evitando di disperderli nell'ambiente dopo l'utilizzo.
*CORTEM GROUP cares for the environmental protection and recommends therefore to dispose properly of the packing and wrapping of its goods, according to the prescriptions and regulations in force in the destination country. The differentiated waste disposal is strongly recommended.*

## INFORMAZIONE AGLI UTENTI DI APPARECCHIATURE DOMESTICHE O PROFESSIONALI



Ai sensi dell'art. 13 del Decreto Legislativo 25 luglio 2005, n. 151 "*Attuazione delle Direttive 2002/95/CE, 2002/96/CE e 2003/108/CE, relative alla riduzione dell'uso di sostanze pericolose nelle apparecchiature elettriche ed elettroniche, nonché allo smaltimento dei rifiuti*".

Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti. L'utente dovrà, pertanto, conferire l'apparecchiatura giunta a fine vita agli idonei centri di raccolta differenziata dei rifiuti elettronici ed elettrotecnici, oppure riconsegnarla al rivenditore al momento dell'acquisto di una nuova apparecchiatura di tipo equivalente, in ragione di uno a uno.

Nel caso di utenti professionali (aziende o enti), ai sensi della normativa sopra citata, la raccolta differenziata della presente apparecchiatura giunta a fine vita è organizzata e gestita:

a) direttamente dall'utente, nel caso in cui questo decida di disfarsi dell'apparecchiatura senza sostituirla con una apparecchiatura nuova equivalente ed adibita alle stesse funzioni;
b) dal produttore, inteso come il soggetto che ha per primo introdotto e commercializzato in Italia o rivende in Italia col proprio marchio l'apparecchiatura nuova che ha sostituito la precedente, nel caso in cui, contestualmente alla decisione di disfarsi dell'apparecchiatura a fine vita, l'utente effettui un acquisto di un prodotto di tipo equivalente ed adibito alle stesse funzioni. In tale ultimo caso, l'utente potrà richiedere al produttore il ritiro della presente apparecchiatura entro e non oltre 15 giorni naturali consecutivi dalla consegna della suddetta apparecchiatura nuova.

L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego e/o riciclo dei materiali di cui è composta l'apparecchiatura.

Lo smaltimento abusivo del prodotto da parte dell'utente comporta l'applicazione delle sanzioni di cui alla corrente normativa di legge.

## INFORMATION TO USERS OF DOMESTIC AND PROFESSIONAL EQUIPMENT



According to art. 13 of Legislative Decree dated 25 July 2005 No. 151 "*Putting into effect Directives 2002/95/CE, 2002/96/CE and 2003/108/CE, aimed to limit the use of dangerous substances in electronic and electrical equipment, and related to waste disposal*".

The symbol of the crossed dustbin shown on the equipment or on its package indicates that the product must be collected separately from other waste, at the end of its lifetime. The user shall bring the equipment at the end of its lifetime in places dedicated to collect electrical and electronic waste, or he shall return it to a dealer, buying equivalent equipment (one back, one in).

In the case of professional users (companies or organizations), the subject equipment collection at the end of its lifetime is managed as following indicated:

a) Directly by the user, if he decides to throw the equipment away and not to replace it with a new equivalent one with the same functions;
b) By the manufacturer (i.e. he who first introduced and put on the Italian market, or he who resells in Italy with his brand the new equipment that replaced the previous one), in case the user decides to throw away the old equipment and to replace it with a new equivalent one with the same functions. In this last case, the user can ask the manufacturer to pick up the subject equipment within and not later than 15 days, natural and consecutive, after the new equipment has been delivered.

Separating waste and recycling is aimed to environmentally compatible waste treatment and disposal, in order to limit negative effects on environment and health and to promote recycling the old equipment construction materials and its remake into new products.

Illegal disposal of the product by the user is subject to fines, as per the current applicable law.

## CARATTERISTICHE GENERALI — GENERAL CHARACTERISTICS

| Range of ambient temperature normally used | | | | | | |
|---|---|---|---|---|---|---|
| Type of boxes (material) | Gaskets material | Ambient temperature | Temperature class | Max surface temperature | Use cable suitable for temperature | Max service temperature of terminals (*) |
| Aluminium alloy, Stainless steel, Polyester resin | VMQ SPS 060 (for SA.. and SA../P) SILICONCELL (for cover of CTB CTBE and gland plates SA...SS CTB) EPDM/SBR (for body SA...SS) | -40°C +40°C | T6 | T75°C | no warning tag for cables | +80°C |
| | | -40°C +55°C | T5 | T75°C | 90°C | +95°C |

| Range of ambient temperature for signal circuits (max 1A for Ex e terminals; max 100mA for Ex ia terminals) | | | | | | |
|---|---|---|---|---|---|---|
| Type of boxes (material) | Gaskets material | Ambient temperature | Temperature class | Max surface temperature | Use cable suitable for temperature | Max service temperature of terminals (*) |
| Aluminium alloy, Stainless steel, Polyester resin | VMQ SPS 060 (for SA.. and SA../P) SILICONCELL (for cover of CTB CTBE and gland plates SA...SS CTB) EPDM/SBR (for body SA...SS) | -40°C +60°C | T6 | T75°C | no warning tag for cables | +80°C |

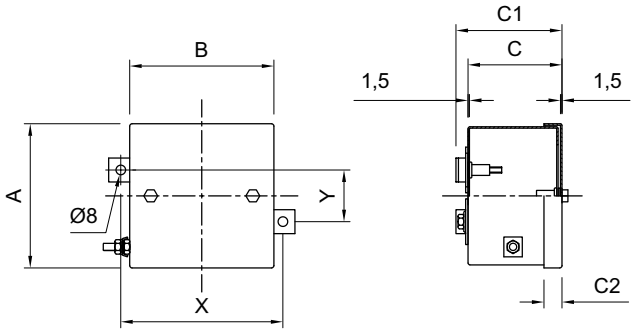
| Other types of ambient temperature range admitted | | | | | | |
|---|---|---|---|---|---|---|
| Type of boxes (material) | Gaskets material | Ambient temperature | Temperature class | Max surface temperature | Use cable suitable for temperature | Max service temperature of terminals (*) |
| Aluminium alloy, Stainless steel | VMQ SPS 060 (for SA..) VMQ MG1077N40 (for body of SA ... SS) SILICONCELL (for cover of CTB CTBE and gland plates SA... SS CTB) | -60°C +40°C | T6 | T75°C | no warning tag for cables | +80°C |
| | | -60°C +55°C | T5 | T75°C | 90°C | +95°C |
| | | -60°C +65°C (**) | T5 | T75°C | 90°C | +95°C |
| Polyester resin | VMQ SPS 060 (for SA.. and SA../P) | -40°C +65°C (**) | T5 | T75°C | 110°C | +95°C |

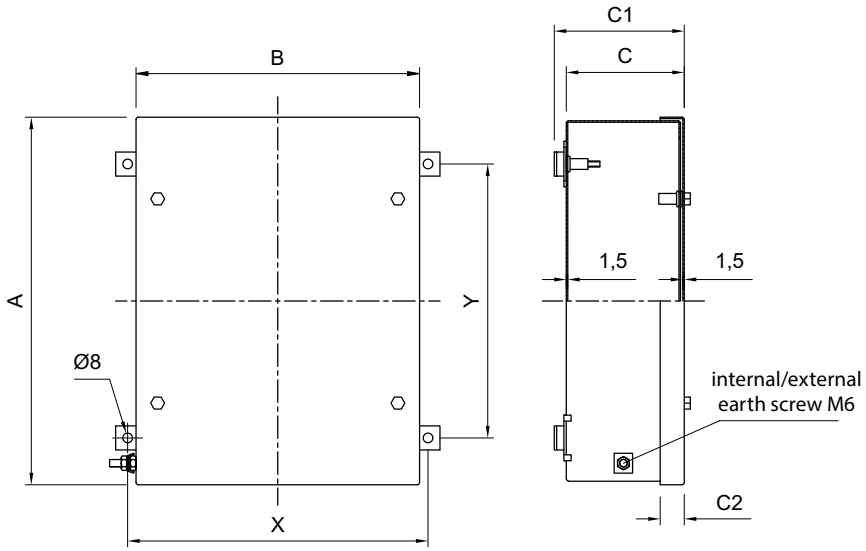
| Range of ambient temperature for signal circuits (max 10A for Ex e terminals; max 100mA for Ex ia terminals) | | | | | | |
|---|---|---|---|---|---|---|
| Type of boxes (material) | Gaskets material | Ambient temperature | Temperature class | Max surface temperature | Use cable suitable for temperature | Max service temperature of terminals (*) |
| Stainless steel | VMQ MG1077N40 (for body of SA ... SS) SILICONCELL (for cover of CTB CTBE and gland plates SA...SS CTB) | -60°C +85°C | T4 | T110°C | 110°C | +120°C |

(*) - La temperature massima di servizio dei morsetti installati all'intero delle custodie deve essere pari o superiore alla temperature indicata nelle tabelle sopra indicate.

(*) - The maximum service temperature of terminals installed inside the enclosures should be equal or greater than the temperature indicated into the tables shown above.

| Part number | A | B | C | C1 | C2 | X | Y | No. of fixing brackets | No. of cover screws |
|---|---|---|---|---|---|---|---|---|---|
| CTBE121208 | 120 | 120 | 80 | 90 | 15 | 135 | 43 | 2 | 2 |
| CTBE151208 | 150 | 120 | 80 | 90 | | 135 | 73 | | |
| CTBE151509 | 150 | 150 | 90 | 100 | | 165 | 73 | | |
| CTBE191509 | 190 | 150 | 90 | 100 | | 165 | 113 | | 4 |
| CTBE191910 | 190 | 190 | 100 | 110 | | 205 | 113 | | |
| CTBE221513 | 229 | 152 | 130 | 140 | | 167 | 152 | | |
| CTBE262610 | 258 | 258 | 100 | 110 | 20 | 273 | 161 | 4 | |
| CTBE262616 | | | 160 | 170 | | | | | |
| CTBE262620 | | | 200 | 210 | | | | | |
| CTBE301410 | 306 | 146 | 100 | 110 | | 160 | 228 | | |
| CTBE302310 | 306 | 236 | 100 | 110 | | 250 | 228 | | |
| CTBE303010 | 306 | 306 | 100 | 110 | | 320 | 228 | | |
| CTBE303016 | | | 160 | 170 | | | | | |
| CTBE303020 | | | 200 | 210 | | | | | |
| CTBE381612 | 380 | 160 | 120 | 130 | | 175 | 303 | | |
| CTBE382610 | 380 | 260 | 100 | 110 | | 275 | 303 | | |
| CTBE382616 | | | 160 | 170 | | | | | |
| CTBE382620 | | | 200 | 210 | | | | | |
| CTBE402513 | 400 | 250 | 130 | 140 | | 265 | 323 | | |



ATTENZIONE:
USARE CAVI ADATTI ALLA TEMPERATURA INDICATA

VOLTAGGIO NOMINALE MAX.: 1000V
CORRENTE NOMINALE MAX : 312A
SEZIONE DEL MORSETTI : DA 1,5MMQ A 300mmq

LA TEMPERATURA AMBIENTE STD. PER L'INSTALLAZIONE DELLE CASSETTA È TA -40°C +40°C CON CLASSE DI TEMPERATURA T6 OPPURE TA -40"C +55°C PER CLASSE DI TEMPERATURA T5. SU RICHIESTA LE CASSETTE POSSONO ESSERE INSTALLATE IN AMBIENTI CON ALTRI RANGE DI TEMPERATURA CHE VARIANO A SECONDA DELLA GUARNIZIONE USATA E DAL TIPO DI MORSETTI INSTALLATI ALL'INTERNO. QUANDO LE CASSETTE SONO ADATTE AD ESSERE INSTALLATE IN AMBIENTI CON TEMPERATURE NON STANDARD, LE SUDDETTE TEMPERATURE SARANNO INDICATE SUI DATI DI TARGA. AL VARIARE DEL RANGE DI TEMPERATURA AMBIENTE, VARIANO LA CLASSE DI TEMPERATURA E LA TEMPERATURA SUPERFICIALE. TUTTE QUESTE CARATTERISTICHE SONO INDICATE NELLE TABELLE SOPRA RIPORTATE.

TUTTE LE INDICAZIONI ELETTRICHE SONO RIFERITE A CASSETTE CORTEM CON MORSETTI WEIDMULLER 0 CABUR. MORSETTI DI ALTRI COSTRUTTORI POSSONO ESSERE USATI SE CERTIFICAZIONE, CARATTERISTICHE E DIMENSIONI SONO SIMILARI. PER LA CONNESSIONE DI TERRA SI DEVONO RISPETTARE LE INDICAZIONI DEL PARAGRAFO 15 DELLE NORME EN 60079-0, IEC 60079-0. GLI ELEMENTI DI CONNESSIONE PER LA MESSA A TERRA 0 PER IL COLLEGAMENTO EQUIPOTENZIALE DELLE MASSE DEVONO PERMETTERE IL COLLEGAMENTO EFFICACE DI ALMENO UN CONDUTTORE DI SEZIONE COME INDICATO DI SEGUITO:

AREA A SEZIONE TRASVERSALE DEL CONDUTTORI DI FASE DELL'INSTALLAZIONE ( S mmq )A
S<=16
16<S<=35
S>35
AREA A SEZIONE TRASVERSALE DEL CONDUTTORE PROTETTIVO CORRISPONDENTE ( S mmq )
S
16
0,5 S

OLTRE A RISPETTARE LE PRESENTI PRESCRIZIONI GLI ELEMENTI DI CONNESSIONE PER LA MESSA A TERRA O DEL COLLEGAMENTO EQUIPOTENZIALE DELLE MASSE POSTI ALL'ESTERNO DELLA COSTRUZIONE ELETTRICA DEVONO PERMETTERE IL COLLEGAMENTO EFFICACE DI UN CONDUTTORE DI ALMENO 4mmq. GLI ACCESSORI USATI PER ENTRATE DI CAVI O CHIUSURA IMBOCCHI INUTILIZZATI DEVONO ESSERE CERTIFICATI IN ACCORDO ALLE EN60079-0, EN 60079·7, EN 60079·31, IEC 60079-0, IEC 60079·7, IEC 60079·31 E DEVONO GARANTIRE UNA PROTEZIONE MECCANICA PARI A IP66. GLI ACCESSORI DEVONO AVERE LA STESSA TEMPERATURA AMBIENTE DI INSTALLAZIONE DELLE CASSETTE.

Warning:
Use cables able for indicated temperature

Max. nominal voltage: 1000V
Max. nominal current: 312A
Section of terminals : from 1,5mmq to 300mmq

The standard ambient temperature range is Ta -40°C +40°C with temperature class T6 or Ta -40°C +55°C with temperature class T5.
On request the boxes can be installed with other range of ambient temperature that depend on type of gasket used and type of terminal mounted inside. When the boxes are suitable to be installed with ambient temperature not standard, the ambient temperature is marked on the tag. With the changing of ambient temperature, change also class of temperature and surface temperature.
For all the characteristics see the tables above.

All the electrical indications are referred to Cortem boxes with Weidmuller or Cabur terminals. Terminals of others Manufacturer can be installed, if the certifications, characteristics and dimensions are similar.
For earth connections must be respected the indications of par. 15 to standards EN 60079.0, IEC 60079-0.
Earthing or equipotential bonding connection facilities shall allow for the effective connection of at least one conductor with a auss sectional area as indicated following:

Cross-sectional area of phase conductors of the installation ( S mmq )
S<=16
16<S<=35
S>35

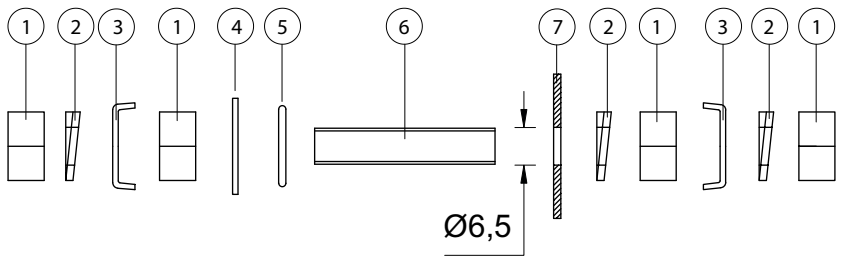
Cross-sectional area of corresponding protective conductor ( S mmq )
S
16
0,5 S

In addition, earthing or bonding connection facilities on the outside of boxes shall provided for effective connection of a conductor of at least 4mmq.
The accessories used for cable entries and for closing unused apertures shall be certified according to the standards EN 60079-0, EN 60079-7, EN 60079·31, IEC 60079·0, IEC 60079·7, IEC 60079·31 and shall guarantee a degree protection IP66. The accessories for cable entry must be certified for same ambient temperature of installation of boxes.

Dettaglio delle vite di terra interna/esterna M6
Detail for internal/external earth screw M6

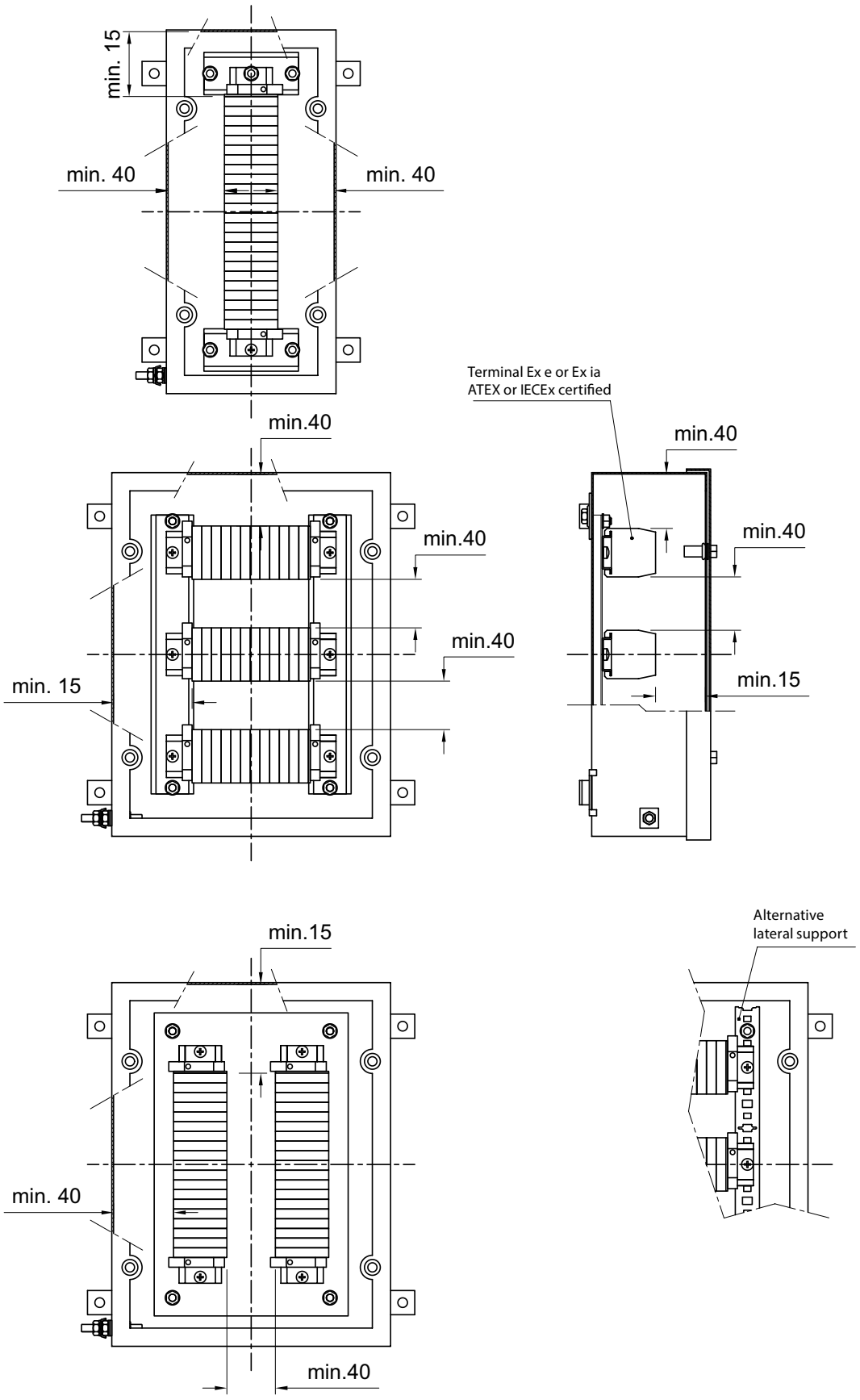
1 - Dado M6 in acciaio inox o ottone
2 - Rondella elastica (grower) in acciaio inox
3 - staffe antirotazione in acciaio inox o ottone
4 - Rondella piana in acciaio inox
5- Rondella/guarnizione piana in Teflon
6 - Grana M6 in acciaio inox o ottone
7 - Parete delle cassette in acciaio inox

1 - Brass or stainless steel nut M6
2 - Stainless steel spring washer
3 - Brass or stainless steel antirotationplate
4 - Stainless steel plain washer
5 - Teflon plain washer/gasket
6 - Brass or stainless steel socket setscrew M6
7 - Wall of stainless steel junction box



Esempi di disposizione morsetti e distanze minime

Examples for terminals disposition ed minimum distances



| Codice Part number | Area forabile - Drilling area | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | H |
| CTBE121208 | 95 | 75 | 75 | 95 | 35 |
| CTBE151208 | 95 | 105 | 75 | 125 | 35 |
| CTBE151509 | 125 | 105 | 105 | 125 | 45 |
| CTBE191509 | 125 | 145 | 105 | 165 | 45 |
| CTBE191910 | 165 | 145 | 145 | 165 | 55 |
| CTBE221513 | 127 | 184 | 107 | 199 | 85 |
| CTBE262610 | 233 | 213 | 213 | 233 | 50 |
| CTBE262616 | 233 | 213 | 213 | 233 | 110 |
| CTBE262620 | 233 | 213 | 213 | 233 | 150 |
| CTBE301410 | 120 | 260 | 100 | 280 | 50 |
| CTBE302310 | 210 | 260 | 190 | 280 | 50 |
| CTBE303010 | 260 | 260 | 260 | 260 | 50 |
| CTBE303016 | 280 | 260 | 260 | 280 | 220 |
| CTBE303020 | 280 | 260 | 260 | 280 | 250 |
| CTBE381612 | 115 | 335 | 135 | 355 | 70 |
| CTBE382610 | 235 | 335 | 215 | 355 | 50 |
| CTBE382616 | 235 | 335 | 215 | 355 | 110 |
| CTBE382620 | 235 | 335 | 215 | 355 | 150 |
| CTBE402513 | 225 | 355 | 205 | 375 | 80 |

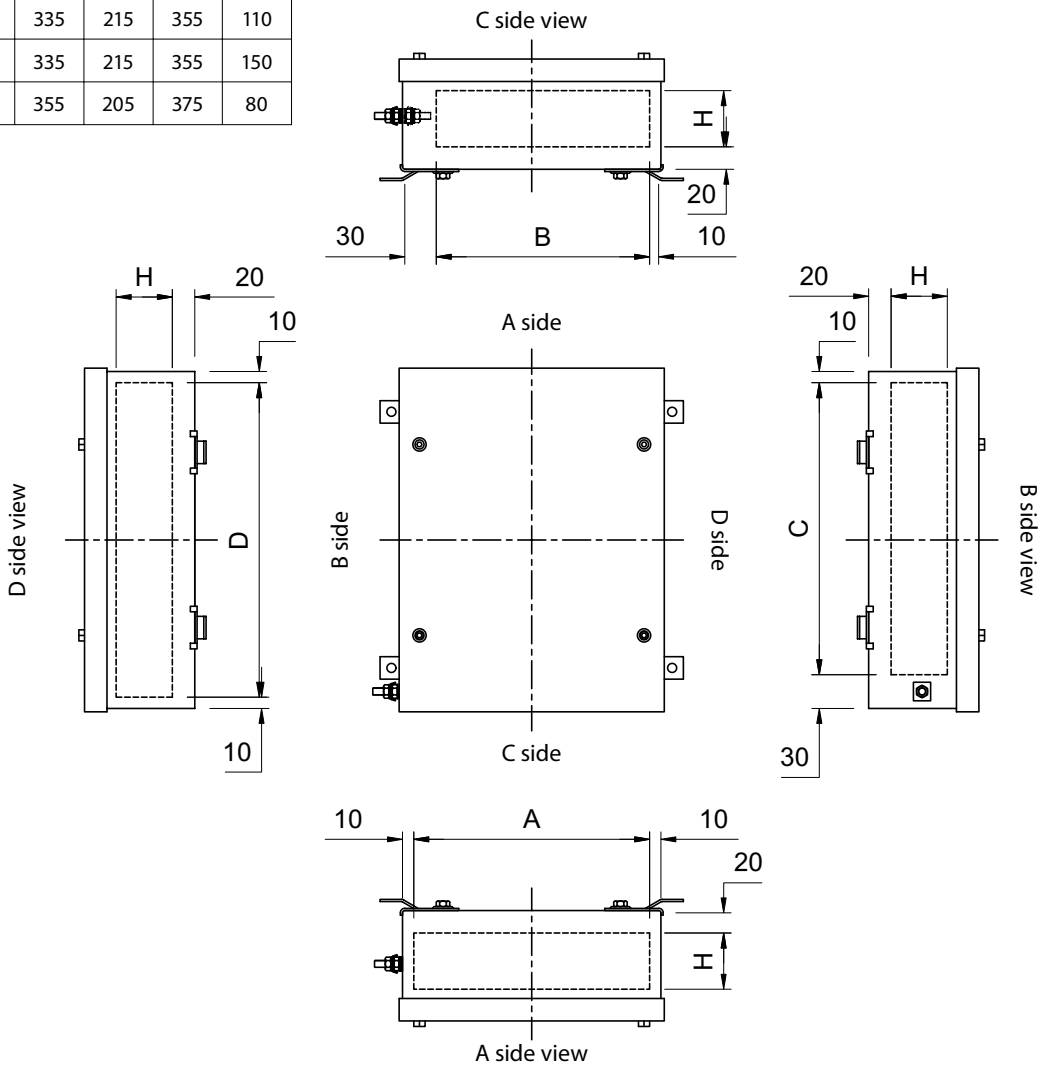
Foro passante da eseguire in base alla filettatura del pressacavo o tappo da installare
Passing through hole to be performed under the thread of cable gland or plug installed

| TIPO FORO hole type | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| ISO 7/1 - ISO 228 | 1/2" | 3/4" | 1" | 1" 1/2 | 1" 1/2 | 2" | 2" 1/2 | 3" | 4" |
| FORO PASSANTE Through hole | Ø22 | Ø27,5 | Ø34 | Ø43 | Ø48,5 | Ø60,5 | Ø76 | Ø89 | Ø114 |

| IMPERIAL BS 31 (BET) | 3/4" | 1" | 1" 1/4 | 1" 1/2 | 2" | 2" 1/2 | 3" | | |
|---|---|---|---|---|---|---|---|---|---|
| FORO PASSANTE Ø Through hole Ø | Ø20 | Ø26,5 | Ø32,5 | Ø39 | Ø51,5 | Ø64,5 | Ø77 | | |

| ISO 965 | 20X1,5 | 25X1,5 | 32X1,5 | 40X1,5 | 50X1,5 | 63X1,5 | 75X1,5 | 90X1,5 | 100X1,5 |
|---|---|---|---|---|---|---|---|---|---|
| FORO PASSANTE Ø Through hole Ø | Ø20 | Ø25,5 | Ø32,5 | Ø40,5 | Ø50,5 | Ø63,5 | Ø75,5 | Ø90,5 | Ø100,5 |

| P.G. | PG 9 | PG 11 | PG 13,5 | PG 16 | PG 21 | PG 29 | PG 36 | PG 42 | |
|---|---|---|---|---|---|---|---|---|---|
| FORO PASSANTE Ø Through hole Ø | Ø16 | Ø19,5 | Ø21 | Ø23,5 | Ø29 | Ø38 | Ø48 | Ø55 | |

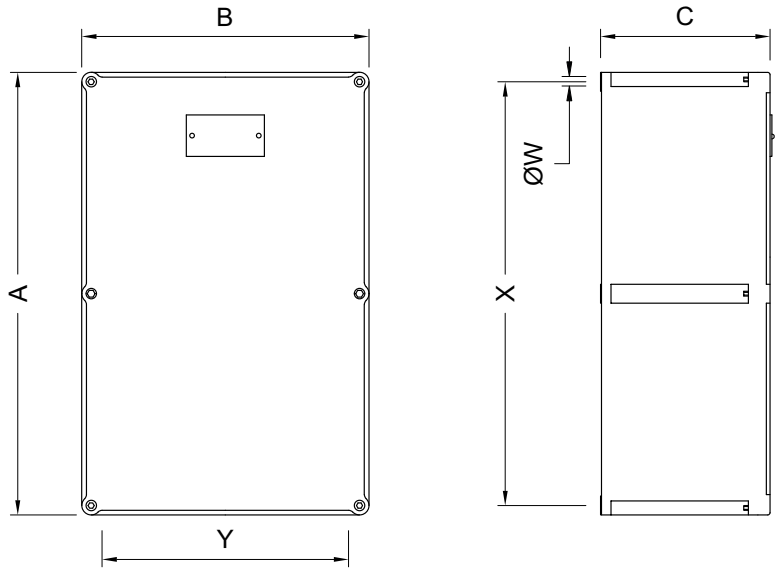


Tab.1 types and dimensions for aluminium boxes

| JUNCTION BOX TYPE | OUTSIDE DIMENSIONS | | | MOUNTING DIMENSIONS | | |
|---|---|---|---|---|---|---|
| | A | B | C | X | Y | ØW |
| SA-090907 | 90 | 90 | 85 | 74 | 74 | 7 |
| SA-111108 | 110 | 110 | 95 | 94 | 94 | |
| SA-141410 | 147 | 147 | 110 | 131 | 131 | |
| SA-171108 | 170 | 110 | 95 | 154 | 94 | |
| SA-202012 | 200 | 200 | 130 | 180 | 180 | |
| SA-301410 | 305 | 147 | 110 | 285 | 127 | |
| SA-302310 | 305 | 230 | 110 | 285 | 210 | |
| SA-302318 | 305 | 230 | 190 | 285 | 210 | |
| SA-473018 | 470 | 305 | 195 | 450 | 285 | |
| SA-623018 | 620 | 305 | 195 | 600 | 285 | |
| SAG-606018 | 600 | 600 | 210 | 580 | 580 | 8 |

COPPIA DI SERRAGGIO RACCOMANDATA
RECOMMENDED TIGHTENING TORQUES

| Filetto Nominale Nominal size thread | Classe di resistenza 70 Steel Grade Property Class 70 | |
|---|---|---|
| | Precarico (N) Preload (N) | Serraggio (Nm) Tightening (Nm) |
| M5 | 3.000 | 3,5 |
| M6 | 6.200 | 4,5 |
| M8 | 12.200 | 16 |
| M10 | 16.300 | 32 |
| M12 | 24.200 | 56 |
| M16 | 45.000 | 135 |

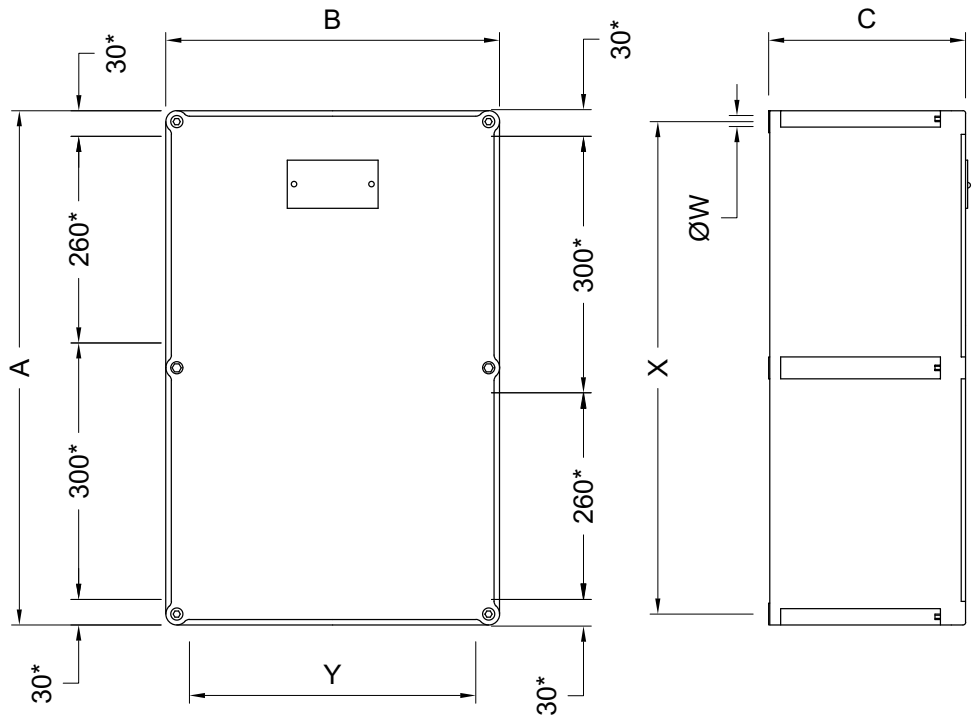



Tab.2 types and dimensions for poliaster boxes

| JUNCTION BOX TYPE | OUTSIDE DIMENSIONS | | | MOUNTING DIMENSIONS | | |
|---|---|---|---|---|---|---|
| | A | B | C | X | Y | ØW |
| SA-090907P | 90 | 90 | 85 | 74 | 74 | 7 |
| SA-111108P | 110 | 110 | 95 | 94 | 94 | |
| SA-141410P | 147 | 147 | 110 | 131 | 131 | |
| SA-171108P | 170 | 110 | 95 | 154 | 94 | |
| SA-301410P | 305 | 147 | 110 | 285 | 127 | |
| SA-302310P | 305 | 230 | 110 | 285 | 210 | |
| SA-302318P | 305 | 230 | 190 | 285 | 210 | |
| SA-473018P | 470 | 305 | 195 | 450 | 285 | |
| SA-623018P | 620 | 305 | 195 | - | - | |

On drawing for polyester boxes the fixing dimensions indicated with asterisk are referred only to SA-623018P box. For the fixing dimensions of all the other boxes see table.

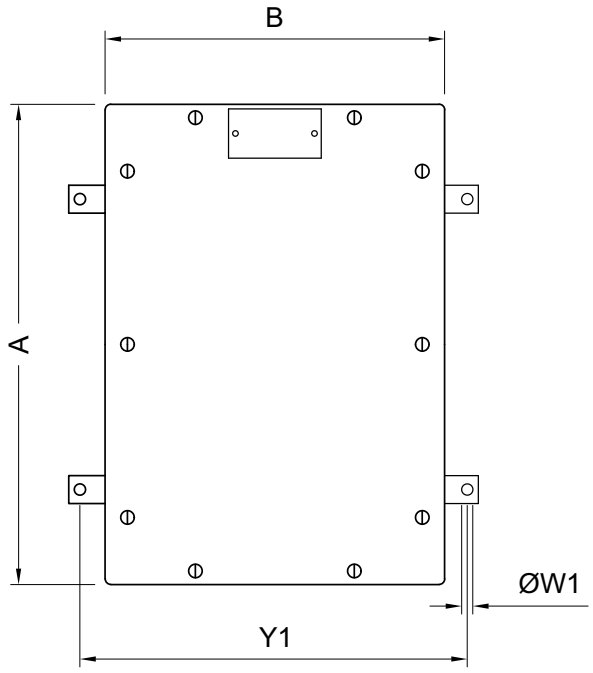
Polyester boxes

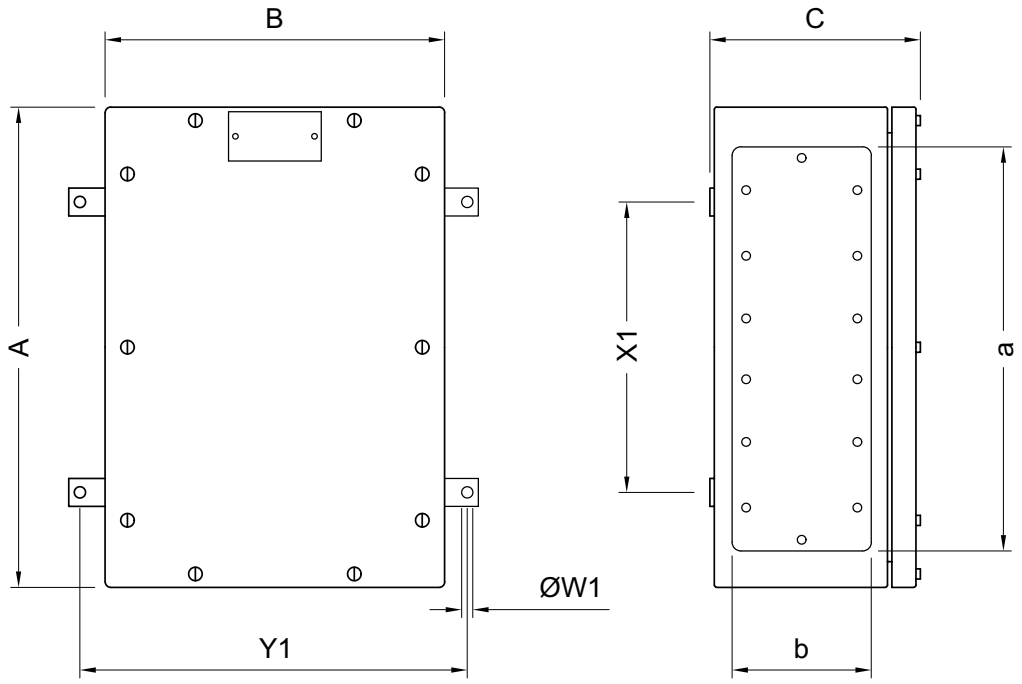



Tab.3 types and dimensions for typical stainless steal boxes SA with or without gland-plates

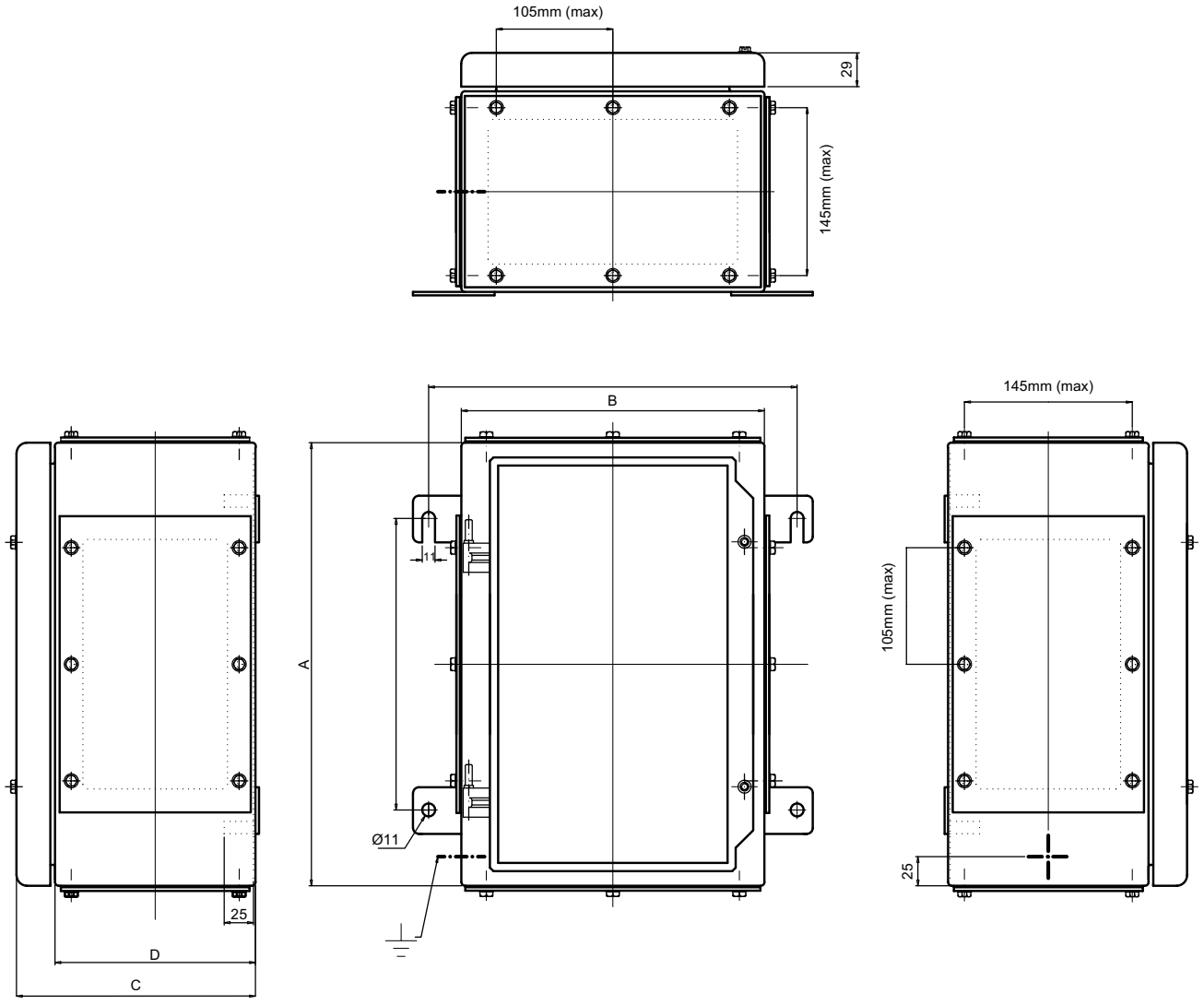
| JUNCTION BOX TYPE | OUTSIDE DIMENSIONS | | | MOUNTING DIMENSIONS | | | DIMENSIONS OF GLAND PLATES short side | | DIMENSIONS OF GLAND PLATES long side | |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | X1 | Y1 | ØW | a | b | a | b |
| | | | | | | | | | | |
| SA-111108SS | 110 | 110 | 85 | 38 | 130 | | | | | |
| SA-141410SS | 147 | 147 | 100 | 75 | 167 | | | | | |
| SA-171108SS | 170 | 110 | 85 | 98 | 130 | | | | | |
| SA-301410SS | 305 | 147 | 100 | 233 | 167 | | | | | |
| SA-302310SS | 305 | 230 | 100 | 233 | 250 | 8 | | | | |
| SA-302318SS | 305 | 230 | 180 | 233 | 250 | | 200 | 140 | 275 | 140 |
| SA-473018SS | 470 | 305 | 180 | 398 | 325 | | 275 | 140 | 440 | 140 |
| SA-623018SS | 620 | 305 | 180 | 548 | 325 | | 275 | 140 | 590 | 140 |
| SA-404020SS | 400 | 400 | 200 | 328 | 420 | | 370 | 172 | 370 | 172 |
| SAG-606020SS | 600 | 600 | 200 | 528 | 620 | | 570 | 172 | 570 | 172 |

Stainless steel boxes

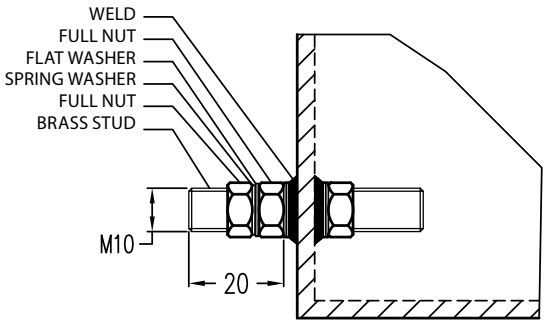


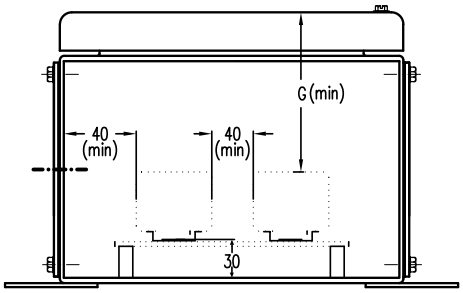
Tab.4 types and dimensions for stainless steal boxes CTB

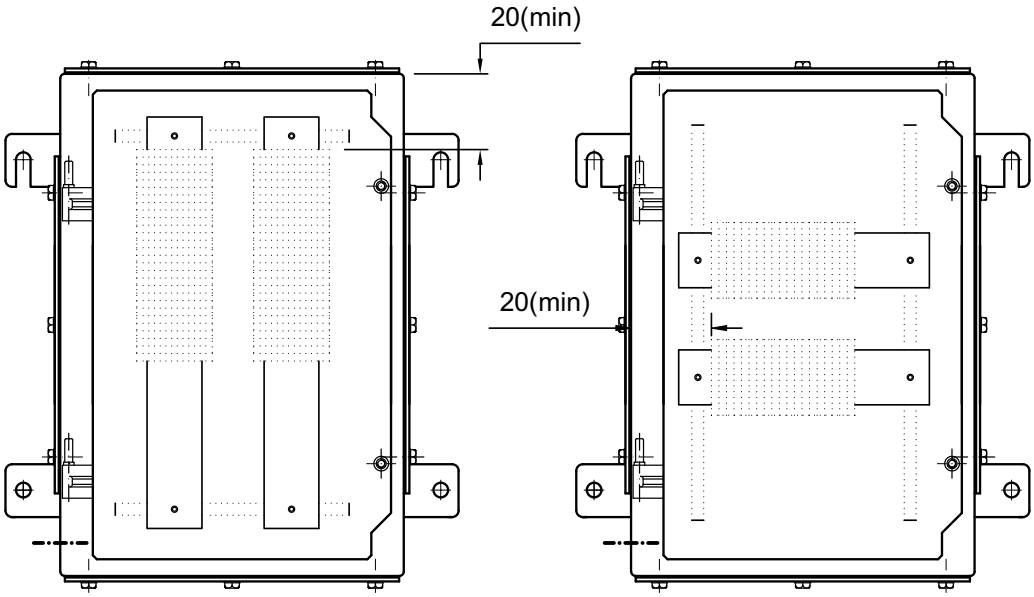



DETAIL OF EXTERNAL AND
Internal earth stud

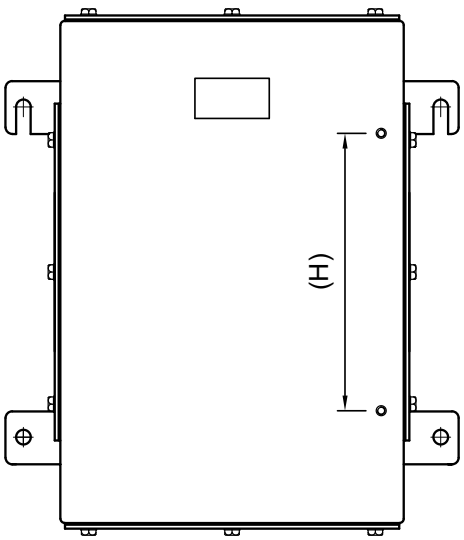



DETAILS THE SAME INTERNAL AS EXTERNAL

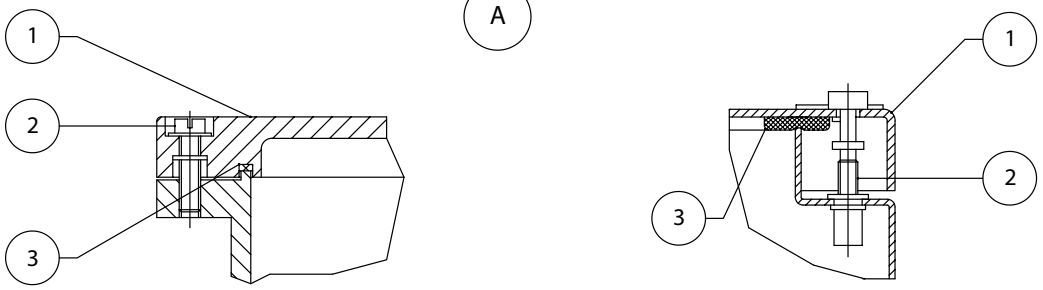



| JUNCTION BOX TYPE | DIMENSION | DOOR FIXING SCREWS | |
|---|---|---|---|
| | G (min) | No. OF SCREWS | DIMENSION (H) |
| CSTB121208 | 20 | 4 | 100 |
| CSTB151609 | 30 | 4 | 130 |
| CSTB191910 | 40 | 4 | 170 |
| CTB221513 | 50 | 2 | 120 |
| CTB262616 | 45 | 2 | 148 |
| CTB262620 | 90 | 2 | 148 |
| CTB303016 | 45 | 2 | 170 |
| CTB303020 | 90 | 2 | 170 |
| CTB382816 | 45 | 2 | 170 |
| CTB382820 | 90 | 2 | 170 |
| CTB453816 | 45 | 2 | 260 |
| CTB453820 | 90 | 2 | 260 |
| CTB484816 | 45 | 2 | 270 |
| CTB484820 | 90 | 2 | 270 |
| CTB503516 | 45 | 2 | 270 |
| CTB503520 | 90 | 2 | 270 |
| CTB624516 | 45 | 3 | 255 |
| CTB624520 | 90 | 3 | 255 |
| CTB745520 | 90 | 3 | 255 |
| CTB765020 | 90 | 3 | 266 |
| CTBB68420 | 90 | 3 | 315 |
| CTB916120 | 90 | 3 | 320 |
| CTB987420 | 90 | 3 | 360 |



A




**COPPIA DI SERRAGGIO RACCOMANDATA**

| TIPO CUSTODIA | Serraggio (Nm) |
|---|---|
| SA ... SS (inox) | 4 |
| SA ... (alluminio) | 4 |
| SA .../P (poliestere) | 3+4* |

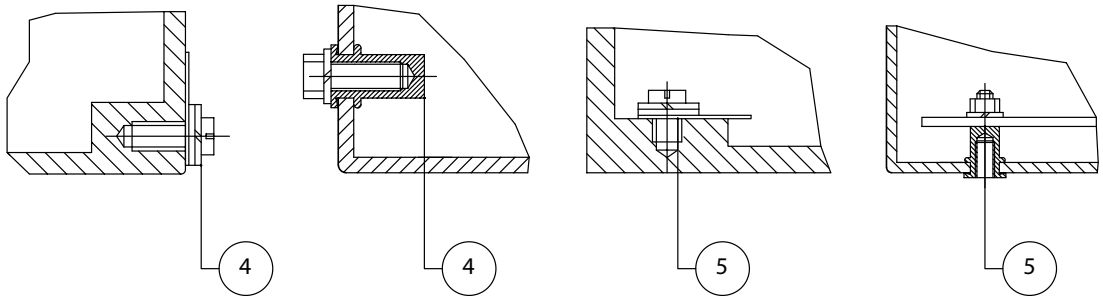
* dove viti TC usare cacciavite a croce mod. PH

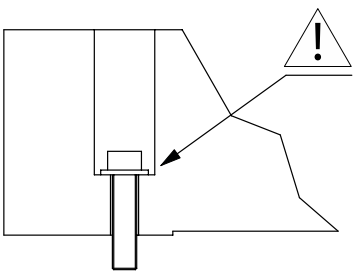
**RECOMMENDED TIGHTENING TORQUES**

| Enclosure type | Tightening (Nm) |
|---|---|
| SA ... SS (stainless steel) | 4 |
| SA ... (aluminium) | 4 |
| SA .../P (polyester) | 3+4* |

* where TC screws use phillips screwdriver mod. PH

B

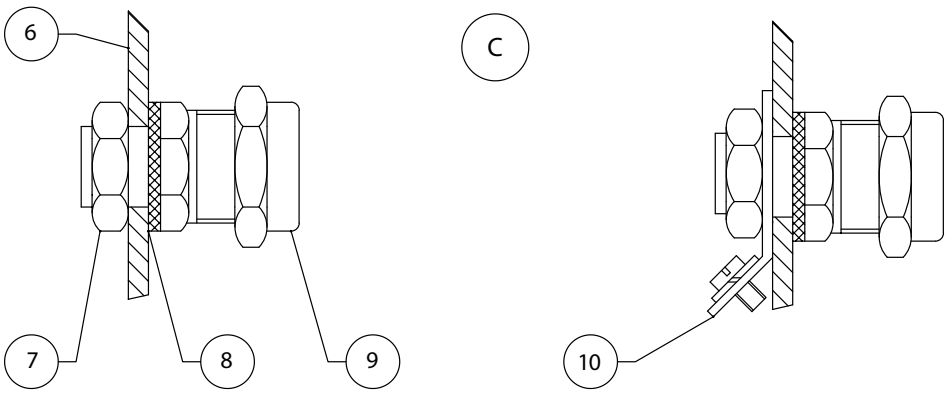


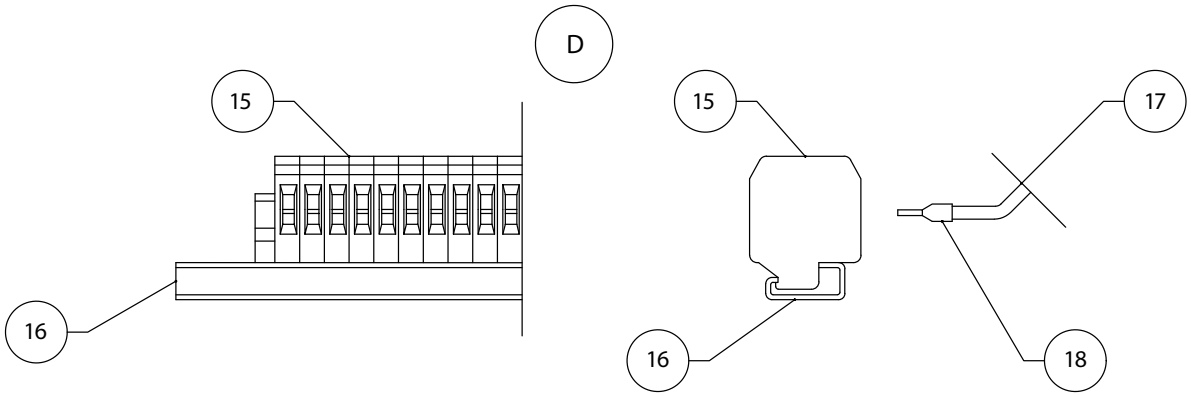



NOTA: PER IL FISSAGGIO DELLE CUSTODIE SA-6230181N POLIESTERE USARE VITI COMPLETE DI RONDELLA PIANA.

Note: to fix SA-623018 polyester boxes, use screws complete of washers.

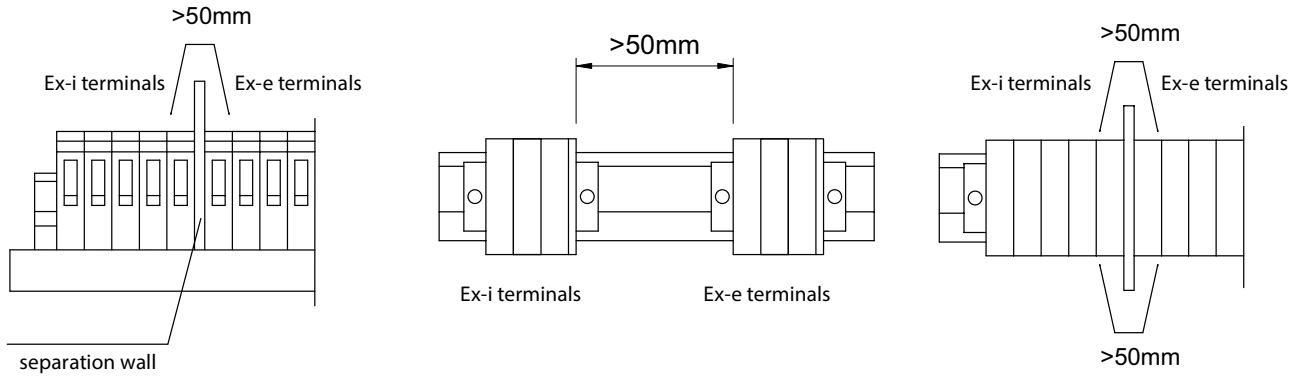
C



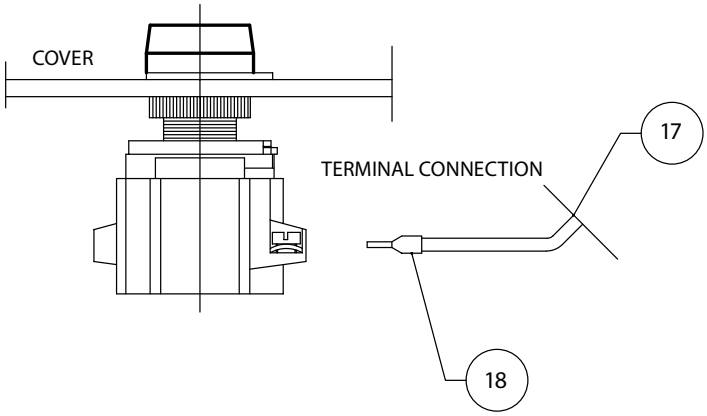



TIPICI MONTAGGI ALL'INTERNO CASSETTA DI MORSETTI Ex-e ED Ex-i

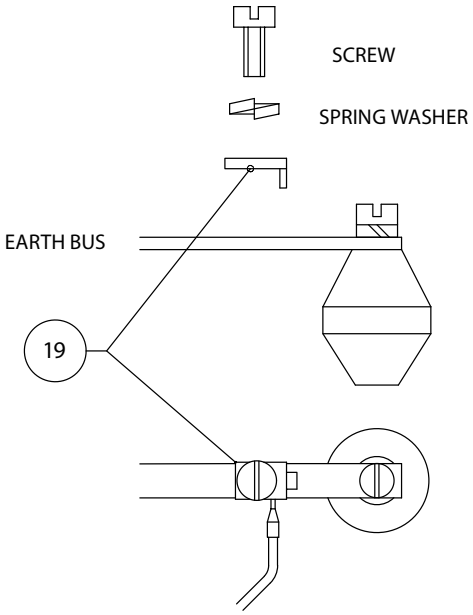
TYPICAL ARRANGEMENTS OF Ex-e AND Ex-i TERMINALS




TYPICAL EQUIPMENT CONNECTION




TYPICAL EARTH CONNECTION




PER UNA EFFICACE CONNESSIONE DEi CAVI 17 AI COMPONENTI SI CONSIGLIA L'USO DI PUNTALINI (CAPICORDA) 18
TUTTE LE VITI DI FISSAGGIO SONO DI TIPO ANTIALLENTANTE E TUTTE LE CONNESSIONI DI TERRA SONO COMPLETE DI STAFFA ANTIROTAZIONE 19.

SUI COPERCHI DELLE CASSETTA POTRANNO ESSERE MONTATI SOLTANTO OPERATORI CON CERTIFICATO ATEX, IECEx.
VERIFICARE SEMPRE I DATI DI TARGA DEGLI OPERATORI E DELLE CUSTODIE PRIMA DI COLLEGARE I CIRCUTI

To obtain an appropriate connection of cables 17 with equipment, the us of crimping lugs 18 is preferred. All the screws are antiloosening type, all earth connections are complete with antirotation support 19.

Only equipment with ATEX, IECEx certificate can be mounted on covers of the boxes. Before energizing, verify the tag data on boxes and on equipment.

LA TEMPERATURA AMBIENTE STD. PER L'INSTALLAZIONE DELLE CASSETTE È Ta -40°C +40°C CON CLASSE DI TEMPERATURA T6 OPPURE Ta -40°C +55°C PER CLASSE DI TEMPERATURA T5.
SU RICHIESTA LE CASSETTE POSSONO ESSERE INSTALLATE IN AMBIENTI CON ALTRI RANGE DI TEMPERATURA CHE VARIANO A SECONDA DEL MATERIALE DELLA CASSETTA, DELLA GUARNIZIONE USATA E DAL TIPO DI MORSETTI INSTALLATI ALL'INTERNO.
QUANDO LE CASSETTE SONO ADATTE AD ESSERE INSTALLATE IN AMBIENTI CON TEMPERATURE NON STANDARD, LE SUDDETTE TEMPERATURE SARANNO INDICATE SUI DATI DI TARGA. AL VARIARE DEL RANGE DI TEMPERATURA AMBIENTE, VARIANO LA CLASSE DI TEMPERATURA E LA TEMPERATURA SUPERFICIALE.
TUTTE QUESTE CARATTERISTICHE SONO INDICATE SUL CERTIFICATO.

If not specified on the nameplate of box, the standard ambient temperature range is Ta -40°C +40°C with temperature class T6 or Ta -40°C +55°C with temperature class T5.
On request the boxes can be installed with other range of ambient temperature that depend on material fa boxes, type of gasket used and type of terminal mounted inside.
When the boxes are suitable to be installed with ambient temperature not standard, the ambient temperature is marked on the tag. With the changing of ambient temperature, change also class of temperature and surface temperature.
For all the characteristics see the certificate.

FIGURA A
PER TOGLIERE IL COPERCHIO 1 ALLENTARE TUTTE LE VITI 2 PER IL RIMONTAGGIO ASSICURARSI CHE LA GUARNIZIONE 3 SIA NELLA PROPRIA SEDE E NON SIA DANNEGGIATA STRINGERE TUTTE LE VITI PER GARANTIRE LA PROTEZIONE IP

Detail A
To remove the cover 1 unloose all the screws 2. Before closing the box be sure that the gasket 3 is in its slot and that it is not damaged. Tighten all the screws to assure IP protection degree.

FIGURA B
TUTTE LE CASSETTE SONO DOTATE DI VITE INTERNA/ESTERNA COMPLETA DI STAFFA ANTIROTAZIONE PER LA CONNESSIONE DI TERRA. (CASSETTE IN POLIESTERE SOLO CONNESSIONE INTERNA) ASSICURARE UN BUON COLLEGAMENTO STRINGENDO LE VITI E DOTANDO I CAVI DI CAPICORDA.

Detail B
All the boxes are complete with internal-external earth screw complete with antirotation support for earth connection. (only internal screw for polyester boxes). A good connection can be assured by tightening the screws properly. All the earth cables must be provided with terminal lugs .

FIGURA C
IL MONTAGGIO DI PRESSACAVI O TAPPI 9 SULLE PARETI DELLE CUSTODIE 6, AVVIENE TRAMITE CONTRODADO 7 E GUARNIZIONE 8. PRESSACAVI METALLICI SU CUSTODIE IN POLIESTERE POSSONO E ESSERE FORNITI CON ANELLO METALLICO DI MESSA A TERRA 10. TUTTI I FORI INUTILIZZATI DEVONO ESSERE TAPPATI, TUTTI GLI ACCESSORI CHE VENGONO MONTATI DEVONO ESSERE IN ACCORDO ALLE NORME EN 60079-0 EN 60079-7 E CON MIN. LO STESSO GRADO DI PROTEZIONE DELLE CUSTODIE

Detail c
Cable glands and I or plugs 9 must be installed on the walls of the boxes complete with locknut 7 and gasket 8. If metallic cable glands are installed on polyester junction boxes, they could be supplied complete with metallic ring for earth connection 10. All the unused holes must be plugged , all the accessories mounted on boxes must be certified according to EN 60079-0, EN 60079-7 and must how a protection degree at least equal to the protection degree of boxes.

FIGURA D
ALL'INTERNO DELLE CUSTODIE I MORSETTI 15 SONO MONTATI SU PROFILI DIN 16. PER UNA EFFICACE CONNESSIONE DEI CAVI 17 AI MORSETTI SI CONSIGLIA L'USO DI PUNTALINI.

Detail D
The internal terminals 15 are mounted on the DIN rail 16. To obtain an appropriate connection of cables 17 with terminals, the use of crimping lugs is preferred.

ALL'INTERNO DELLA CASSETTA POTRANNO ESSERE MONTATI SOLTANTO MORSETTI CON CERTIFICATO "ATEX".

Only terminals with "ATEX" certificate can be mounted inside the box.

NEL CASO IN CUI NELLA STESSA CUSTODIA SI TROVINO MORSETTI IN ESECUZIONE Ex-e ED Ex-i DOVRANNO ESSERE RISPETTATE LE DISTANZE MINIME INDICATE NEI DETTAGLI DELLA PAGINA PRECEDENTE CHE SONO RIFERITE ALLE NORME VIGENTI. I MORSETTI IN ESECUZIONE Ex-i DOVRANNO ESSERE EVIDENZIATI O TRAMITE TARGHETTA O COMUNQUE CON UN DIVERSO COLORE DAGLI AL TRI (BLU) .

In case of Ex e and Ex i terminals are mounted inside the box, the minimum distances between terminals described on previous sheet must be respected (accounting to the European standard).
Ex i terminals must be identified with a label or with a different colour (blue).

SE VENGONO FORNITE CON MORSETTI CABLATI, LE CUSTODIE VENGONO SOTTOPOSTE ALLA PROVA DI TENSIONE APPLICATA IN ACCORDO ALLA CLAUSOLA 7.1 DELLA EN60079·7 ED IEC60079·7 CON I SEGUENTI VALORI: 1500V +0% +5% PER 1 MINUTO.
SE VENGONO FORNITE CON MORSETTI NON CABLATI, SARÀ CURA DELL'INSTALLATORE SOTTOPORRE LE CUSTODIE ALLA PROVA DI TENSIONE APPLICATA.

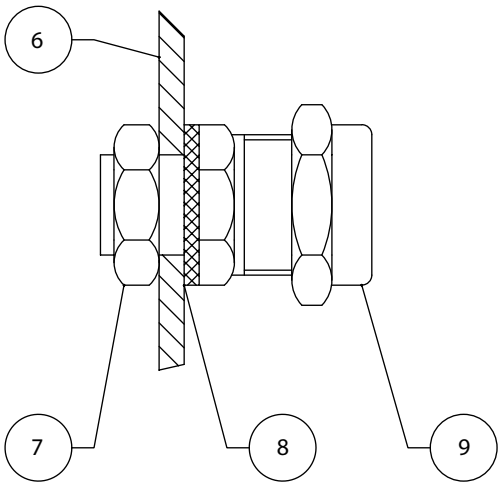
When supplied with terminals complete of wiring cables, the boxes have been submitted to the dielectric test in accordance with the clause 7.1 of EN60079·7 and IEC 60079·7 with the following values: 1500V +0% +5% for 1 minute.
When supplied with terminals without wiring cables, the dielectric test must be made by Installer.

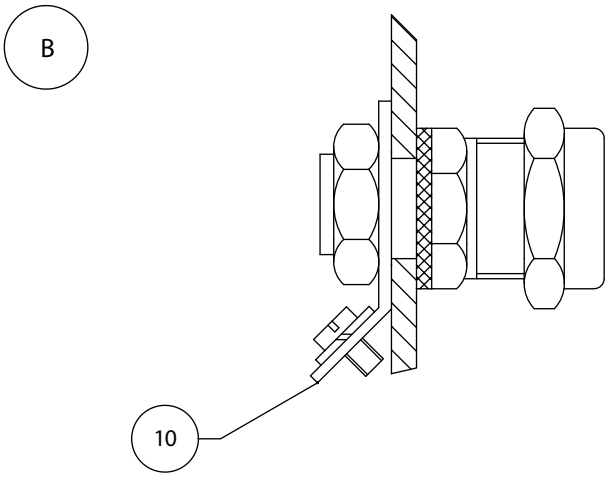
FIGURA A
ALL'INTERNO DELLE CUSTODIE I MORSETTI 15 SONO MONTATI SU PROFILI DIN 16.
PER UNA EFFICACE CONNESSIONE DEI CAVI 17 AI MORSETTI SI CONSIGLIA L'USO DI PUNTALINI.
ALL'INTERNO CASSETTA POTRANNO ESSERE MONTATI SOLTANTO MORSETTI CON CERTIFICATO "ATEX" E/O IECEx.
NEL CASO IN CUI NELLA STESSA CUSTODIA SI TROVINO MORSETTI IN ESECUZIONE Ex.., ED Ex-i DOVRANNO ESSERE RISPETTATE LE DISTANZE MINIME INDICATE NEI DETTAGLI DELLA PAGINA PRECEDENTE CHE SONO RIFERITE ALLE NORME DI RIFERIMENTO. I MORSETTI IN ESECUZIONE Ex-i DOVRANNO ESSERE EVIDENZIATI O TRAMITE TARGHETTA O COMUNQUE CON UN DIVERSO COLORE DAGLI ALTRI (BLU).

detail A
The internal terminals 15 are mounted on the DIN rail 16 to obtain an appropriate connection of cables 17 with terminals, the use of crimping lugs is preferred.
Only terminals with ATEX and/or IECEx certificate are permitted to mount inside the box.
In case of inside the box are mounted Ex e and Ex i terminals, the minimum distances between terminals described on previous sheet must be respected (according to the reference standards). Ex-i terminals must be identify with a label or with a different colour (blue).

FIGURA B
IL MONTAGGIO DI PRESSACAVI U TAPPI 9 SULLE PARETI DELLE CUSTODIE 6, AVVIENE TRAMITE CONTRODADO 7 E GUARNIZIONE 8.
I PRESSACAVI POSSONO ESSERE FORNITI CON ANELLO METALLICO DI MESSA A TERRA 10. TUTTI I FORI INUTILIZZATI DEVONO ESSERE TAPPATI, TUTTI GLI ACCESSORI CHE VENGONO MONTATI DEVONO ESSERE IN ACCORDO ALLE NORME EN 60079-0, EN 60079-7, IEC 60079-0, IEC 60079-7 E CON MIN. LO STESSO GRADO DI PROTEZIONE DELLE CUSTODIE.

detail B
Cable glands and I or plugs 9 must be installed on the walls of the boxes 6 complete with locknut 7 and gasket 8.
The cable glands could be supplied complete with metallic ring for earth connection 10. All the unused holes must be plugged , all the accessories mounted on boxes must be certified according to EN 60079-0, EN 60079-7, IEC 60079-0, IEC 60079-7 and with a protection degree min. equal to the protection degree of boxes.

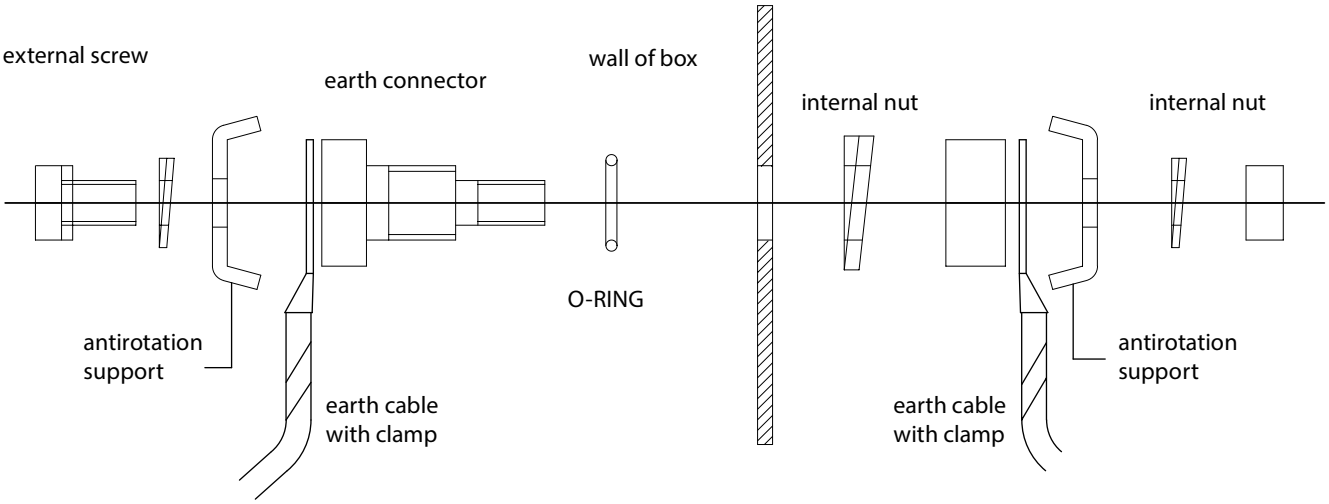



SE VENGONO FORNITE CON MORSETTI CABLATI, LE CUSTODIE VENGONO SOTTOPOSTE ALLA PROVA DI TENSIONE APPLICATA IN ACCORDO ALLA CLAUSOLA 7.2 DELLA EN60079-7 ED IEC60079-7 CON I SEGUENTI VALORI: 1500V +0% +5% PER 1 MINUTO.
SE VENGONO FORNITE CON MORSETTI NON CABLATI, SARÀ CURA DELL'INSTALLATORE SOTTOPORRE LE CUSTODIE ALLA PROVA DI TENSIONE APPLICATA.

When supplied with terminals complete of wiring cables, the boxes have been submitted to the dielectric test in accordance with the clause 7.2 of EN60079·7 and IEC 60079·7 with the following values: 1500V +0% +5% for 1 minute.
When supplied with terminals without wiring cables, the dielectric test must be made by Installer.

Typical connection for external/internal earth screw (antiloosening type with spring washers)




ATTENZIONE:
USARE CAVI ADATTI ALLA TEMPERATURA INDICATASULLA TARGHETTA

VOLTAGGIO NOMINALE MAX.: 1000V

CORRENTE NOMINALE : DA 8A A 312A

SEZIONE DEl MORSETTI : DA 1,5mmq A 300mmq

TUTTE LE INDICAZIONI ELETTRICHE SONO RIFERITE A CASSETTE CORTEM CON MORSETTI WEIDMULLER. MORSETTI DI ALTRI COSTRUTTORI POSSONO ESSERE USATI SE LA CERTIFICAZIONE, CARATTERISTICHE E DIMENSIONI SONO SIMILARI.
PER LA CONNESSIONE DI TERRA SI DEVONO RISPETTARE LE INDICAZIONI DEL PARAGRAFO 15 DELLE NORME EN 60079-0, IEC 60079-0. GLI ELEMENTI DI CONNESSIONE PER LA MESSA A TERRA O PER IL COLLEGAMENTO EQUIPOTENZIALE DELLE MASSE DEVONO PERMETTERE IL COLLEGAMENTO EFFICACE DI ALMENO UN CONDUTTORE DI SEZIONE COME INDICATO DI SEGUITO:

AREA A SEZIONE TRASVERSALE DEI CONDUTTORI DI FASE DELL'INSTALLAZIONE ( S mmq )
S<=16
16<S<=35
S>35

AREA A SEZIONE TRASVERSALE DEL CONDUTTORE PROTETTIVO CORRISPONDENTE ( S mmq )
S
16
0,5 S

OLTRE A RISPETTARE LE PRESENTI PRESCRIZIONI GLI ELEMENTI DI CONNESSIONE PER LA MESSA A TERRA O DEL COLLEGAMENTO EQUIPOTENZIALE DELLE MASSE POSTI ALL'ESTERNO DELLA COSTRUZIONE ELETTRICA DEVONO PERMETTERE IL COLLEGAMENTO EFFICACE DI UN CONDUTTORE DI ALMENO 4mmq.
GLI ACCESSORI USATI PER ENTRATE DI CAVI O CHIUSURA IMBOCCHI INUTILIZZATI DEVONO ESSERE CERTIFICATI IN ACCORDO ALLE EN 60079-0; EN 60079-7; EN 60079-31 E IEC 60079-0; IEC 60079-7; IEC 60079-31 E DEVONO GARANTIRE UNA PROTEZIONE MECCANICA PARI A IP66. GLI ACCESSORI DEVONO AVERE LA STESSA TEMPERATURA AMBIENTE DI INSTALLAZIONE DELLE CASSETTE.

Warning:
Use cables suitable for temperature indicated on the label

Max. nominal voltage: 1000V

Nominal current : from 8A to 312A

Section of terminals : from 1,5mmq to 300mmq

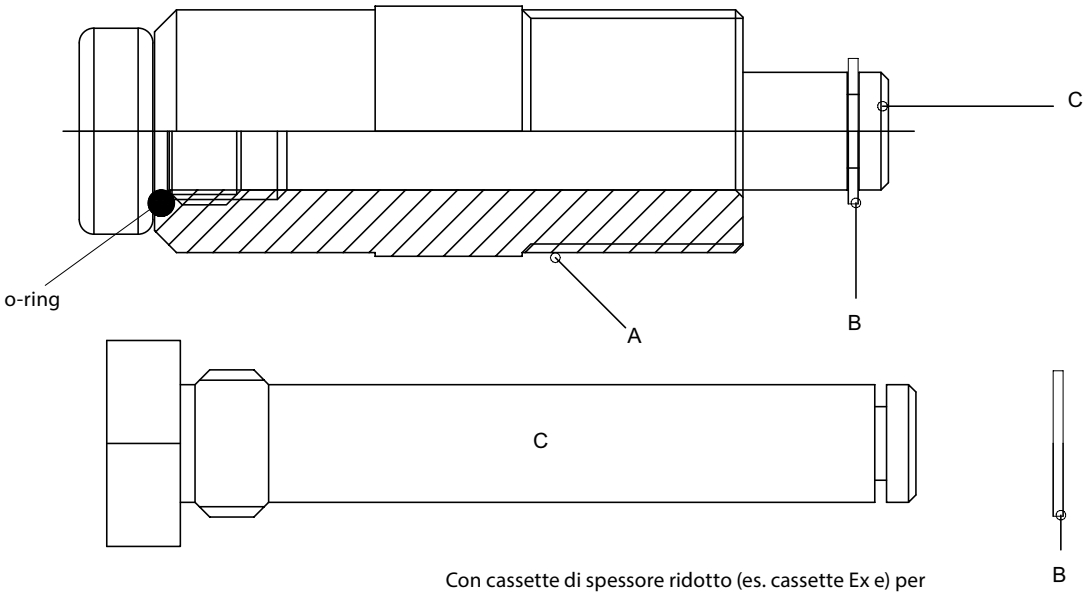
All the electrical indications are referred to Cortem boxes with Weidmuller terminals. terminals of others Manufacturer can be installed, if the certifications, characteristics and dimensions are similar.
For earth connections must be respected the indications of par. 15 to standards EN 60079-0, IEC 60079-0.
Earthing or equipotential bonding connection facilities shall allow for the effective connection of at least one conductor with a cross sectional area as indicated following:

Cross-sectional area of phase conductors of the installation( S mmq)
S<=16
16<S<=35
S>35

Cross-sectional area of corresponding protective conductor ( S mmq )
S
16
0,5 S

In addition, earthing or bonding connection facilities on the outside of boxes shall provided for effective connection of a conductor of at least 4mmq.
The accessories used for cable entries and for closing unused apertures shall be certified according to the standards EN 60079-0; EN 60079-7; EN 60079-31 and IEC 60079-0; IEC 60079-7; IEC 60079-31 and shall guarantee a degree protection IP66. The accessories for cable entry must be certified for same ambient temperature of installation of boxes.

VALVOLA TIPO:
Valve type: ECD-2.. 11 2GD Ex d IIC/Ex e 11 Ex tD A21 IP66

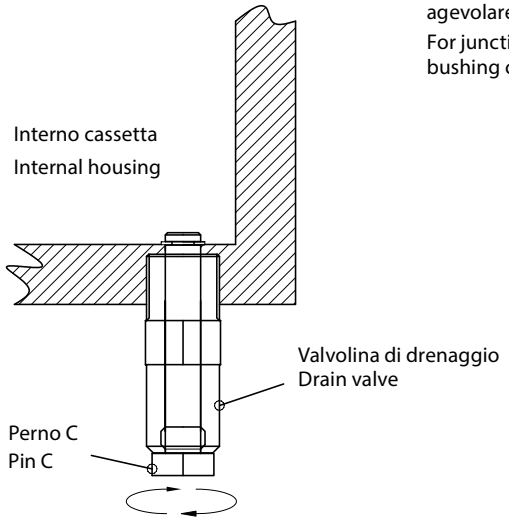


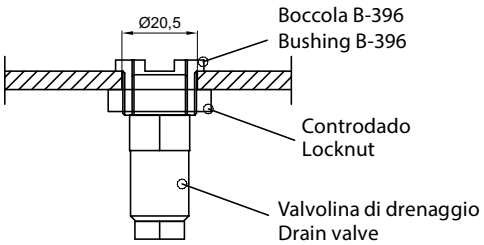




Con cassette di spessore ridotto (es. cassette Ex e) per agevolare il drenaggio viene aggiunta una boccola.

For junction boxes with reduced thickness (ex. Ex e boxes) an bushing can be added for an easy drain.




Per procedere con il drenaggio, svitare il perno C.
Terminata l'operazione di drenaggio avvitare il perno facendo attenzione che la guarigione o-ring sia nella propria sede.

To proceed with drain operation, unscrew the pin C.
When drain operation is finished, screw the pin C, be careful to keep the a-ring gasket on its seat.

Durante il normale uso, il perno C deve essere completamente avvitato e la guarnizione o-ring deve essere nella propria sede, al fine di mantenere il grado di protezione IP.

During the normal use, the pin C must be completely screwed and the o-ring gasket must be on its seat, to maintain the degree of protection.

Per la pulizia della valvolina, si deve smontare la stessa dalla cassetta procedendo successivamente allo smontaggio di tutti i componenti come da schema:
1 - Smontare la valvolina A dalla cassetta
2 - Togliere la rondella elastica B
3 - Svitare e sfilare dalla valvolina A il perno C
4 - Effettuare la pulizia del componente ECD
5 - Rimontare la valvolina ECD procedendo in senso inverso a quanta indicate nei punti precedenti

For the cleaning of the valve you must strip down it from the junction box proceeding subsequently the dismantling of the components as in the scheme
1 - Strip down the valve A from the junction box
2 - Remove the internal reataing ring B
3 - Unscrew and take out from the valve A the pin C
4 - Make the cleaning of the component ECD
5 - Reassemble the valve ECD proceeding in the opposite direction as indicated in the above mentioned points.

**CORTEM s.p.a.**
cap. soc.€ 1.578.000,00 i.v.
R.E.A. C.C.I.A.A. GORIZIA U. 32755 - M. GO 000139
Registro Imprese Gorizia 00052120318
Cod.Fisc. e Partita Iva **IT00052120318**
*Eco-contributo RAEE assolto ove dovuto n° Registro A.E.E. IT08020000001818*

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =
COMPANY WITH ENVIRONMENTAL SYSTEM CERTIFIED BY DNV = ISO 14001 =

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**Tel: +39 0481 964911**
**Fax: +39 0481 964999**
**Email: info@cortemgroup.com**

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**Email: infomilano@cortemgroup.com Web site www.cortemgroup.com**

Member of CORTEM GROUP
To be sure to be safe.

# DICHIARAZIONE DI CONFORMITA' *DECLARATION OF CONFORMITY*

## N° 0137

**Il costruttore:**
***We*:**

**CORTEM S.p.A.**
**Via Aquileia, 10**
**34070 VILLESSE (GO) - ITALY**

**Dichiara con la presente la conformità allo schema IECEx, del Prodotto**
***Hereby declares the conformity to IECEx scheme, of the Product***

| | |
|---|---|
| Custodie portamorsetti serie:<br>*Terminal boxes series:* | **SA… SAG… SA…/P SA…SS**<br>**CTB… CSTB… CTBE…** |
| Modo di protezione:<br>*Protection mode:* | **Ex eb IIC T6/T5/T4 Gb**<br>**Ex tb IIIC T75°C/T110°C Db**<br>**IP66**<br><br>**Ex eb ia IIC T6/T5/T4 Gb**<br>**Ex tb ia IIIC T75°C/T110°C Db**<br>**IP66**<br><br>**Ex ia IIC T6/T5/T4 Gb**<br>**Ex ia IIIC T75°C/T110°C Db**<br>**IP66** |
| Temperatura ambiente:<br>*Ambient temperature:* | **-40°C÷+40°C, -40°C÷+55°C, -40°C÷+60°C, -40°C÷+65°C**<br>**-60°C÷+40°C, -60°C÷+55°C, -60°C÷+65°C, -60°C÷+85°C** |
| Certificato:<br>*Certificate:* | **IECEx CES 13.0001** |

**In accordo con le seguenti norme IEC:**
***In accordance with the following IEC Standards:***

**IEC 60079-0:2017**
**IEC 60079-7:2015**
**IEC 60079-11:2011**
**IEC 60079-31:2013**
**IEC 60529:2001**

**Villesse, 21.10.2019**

**Firma**
***Signature*** . . . . . .
**Riccardo Gratton**
**Vice-president**

**INSTALLATION INSTRUCTIONS**
**& CONDITIONS FOR SAFE USE**

Ex II 2 GD
Ex eb IIC Gb

**Modular TERMINAL Blocks: W- Series**

**DEMKO 14 ATEX1338 U**
**IECEx ULD 14.0005U**
**Notified Body No. of Ex - QA: 0344**
**Label print on package unit: 0344**
**UL21UKEX2114U**
**Approved Body No. of UK Ex - QA: xxxx**
**(see product marking)**

Standards:
EN IEC 60079-0:2018 and EN IEC 60079-7:2015 A1:2018
IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition

**Modular Terminal Blocks: WDU/WPE**

| Version: | Type | Order No |
|---|---|---|
| | WDU 2.5* | 1020000000 |

| in conjunction with: | Type | Order No |
|---|---|---|
| | WPE 2.5* | 1010000000 |

| Accessories: | Type | Order No |
|---|---|---|
| End Plate | WAP 2.5-10* | 1050000000 |
| Partition Plate | WTW 2.5-10* | 1050100000 |
| End bracket | WEW 35/2* | 1061200000 |
| Terminal rail | TS 35/… acc.to DIN EN 60715 | |
| Screen bus bar | LS 2.8 | 1056400000 |

| Cross-connection | Pluggable* | Screwable* | Order No |
|---|---|---|---|
| | ZQV 2.5N/2 | WQV 2.5/2 | 1053660000 |
| | ZQV 2.5N/3 | WQV 2.5/3 | 1053760000 |
| | ZQV 2.5N/4 | WQV 2.5/4 | 1053860000 |
| | ZQV 2.5N/5 | WQV 2.5/5 | 1053960000 |
| | ZQV 2.5N/6 | WQV 2.5/6 | 1054060000 |
| | ZQV 2.5N/7 | WQV 2.5/7 | 1054160000 |
| | ZQV 2.5N/8 | WQV 2.5/8 | 1054260000 |
| | ZQV 2.5N/9 | WQV 2.5/9 | 1054360000 |
| | ZQV 2.5N/10 | WQV 2.5/10 | 1054460000 |

**Insulation material:**

| | |
|---|---|
| - Type | Wemid |
| - Tracking resistance (A) to IEC 60112 | CTI ≥ 600 |
| - Flammability class to UL 94 | V0 |

| | |
|---|---|
| - Operating temperature range | -60°C…+110°C (insulating material limit) |
| - Ambient temperature range | -60°C…+40°C (for T6 applications) |
| - Ambient temperature range | -60°C…+55°C (for T5 applications) |
| - Ambient temperature range | -60°C…+70°C (for T4 applications) |

* in all colours and optional with hexagon and six lobe drive

**Technical data according to IEC/EN 60079-7 (increased safety "eb"):**

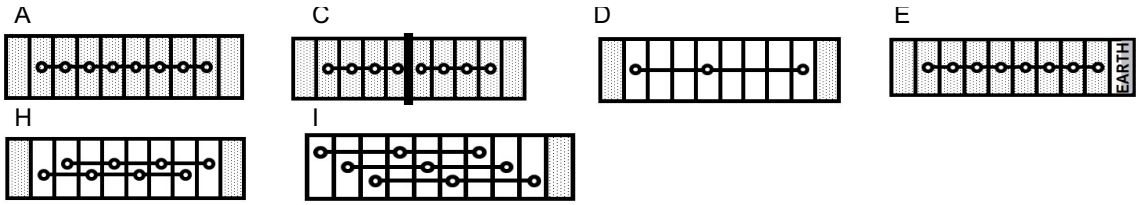
| | WDU 2.5 | WPE 2.5 |
|---|---|---|
| - Rated voltage | 690 V | |
| - Rated voltage with LS 2.8 | 275 V | |
| - Rated current | 24 A / ΔT 40 K | |
| - Temperature rise with rated current | 37,7 K / 24 A | |
| - Rated current with WQV | 24 A / ΔT 40 K | |
| - Rated current with ZQV | 24 A / ΔT 40 K | |
| - Contact resistance with rated conductor, 2.5mm² | 0,37 mΩ | 0,83 mΩ |
| - Rated conductor cross section | 2.5mm² | 2.5mm² |
| - Conductor cross section solid | 0,14 - 4.0 mm² | 0,14 - 4.0 mm² |
| - Conductor cross section stranded | 0,14 - 4,0 mm² | 0,14 - 4,0 mm² |
| - Conductor cross section flexible | 0,14 - 4,0 mm² | 0,14 - 4,0 mm² |
| - cross section, American Wire Gauge | 26 - 12 AWG | 26 - 12 AWG |
| - 2 conductors with same cross-section | 0,5 - 1,5 mm² | --- |
| - Tightening torque range, terminal screw | 0,4 - 0,8 Nm | 0,4 - 0,6 Nm |
| - Tightening torque range, fixing screw | | 0,4 - 0,8 Nm |
| - Tightening torque range for WQV… | 0,4 - 0,8 Nm | |
| - Stripping length | 10 mm | 10 mm |

## IECEx / ATEX / UKCA Terminal and Cross-Connector Arrangements:

**Max voltage data according to IEC/EN 60079-7 in conjunction with protective conductor terminal blocks of the WPE-Series, (increased safety "eb"):**

*Application Case*

| | |
|---|---|
| A | Continuous |
| C | Adjacent – separated by a partition plate |
| D | Intermediate - bridging one or more unconnected terminals |
| E | Next to a protective conductor terminal (earth) without a partition plate |
| H | Cross-connection with twin parallel |
| I | Cross-connection with triple parallel |




| Application case | WDU 2.5 with ZQV 2.5/N | WDU 2.5 with WQV 2.5 |
|---|---|---|
| | max Voltage/V | max Voltage/V |
| A | 440 | 550 |
| C | 440 | 550 |
| D | 352 | 275 |
| E | 352 | 352 |
| H | 275 | 275 |
| I | 69 | - |

Information for further cross-connector arrangements will be provided on request.

Max voltage data with optional screen bus bar LS 2,8:
- WDU 2.5 with ZQV 2.5/N 69 V
- WDU 2.5 with WQV 2.5 275 V

**Note:**
If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the IECEx/EC-Type Examination Certificate of the complete apparatus.

**Mounting instructions:**
The WDU/WPE series is suitable for application in enclosures in atmospheres with flammable gases or combustible dust. For use in flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For use in combustible dust these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.

Regarding the use of accessories the instructions of the manufacturer must be followed.

**Schedule of Limitations:**
The WDU/WPE terminals are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-7. For combustible dust the enclosure must satisfy the requirements according to IEC/EN60079-0 and IEC/EN60079-31.
The terminal blocks shall be placed inside a suitable IECEx/ATEX/UKCA certified IP54 enclosure for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable IECEx/ATEX/UKCA certified certified ‘t’ enclosure (IEC/EN60079-31).

Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at the maximum permitted rated current. Due to the above mentioned, the terminal blocks may be used in apparatus of temperature classes T6..T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 110 °C under any condition.

T6 (- 60°C ... +40 °C)
T5 (- 60°C … +55 °C)
T4 (- 60°C ... +70 °C)

When using the type WDU/WPE especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to IEC/EN60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.

For cross connection accessories, current rating, resistance across the terminal and torque values please refer to the table under “technical data” above.

The terminal can be used with either one or two wires into either side of the terminal. When two wires are used they must be of the same type, and of equal sizes. No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.
When assembling with other approved terminal blocks series, sizes and accessories the required creepage distances and clearances must be considered.
If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus.
Unused terminals shall be tightened.



- Cross connections with blank ends shall not be used.
- Manually cut cross connections shall not be used.

**Essential Health and Safety Requirements:**
Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX / Schedule 1 of UKCA directive and Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II / Schedule 1 of these Directives.

CORTEM GROUP®

# VALVOLINA DI SFIATO E DRENAGGIO SERIE ECDE-...
# ISTRUZIONI DI SICUREZZA, USO E MANUTENZIONE

# Drain and Breather Valve ECDE-...
# safety, maintenance and mounting instructions

IN ACCORDO ALLA DIRETTIVA 2014/34/UE
ED IN ACCORDO ALLO SCHEMA IECEx

according to directive 2014/34/UE
and according to IECEx scheme

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ELFIT | cortem | FONDISONZO

ISTRUZIONI PER IL MONTAGGIO VALVOLINA DI SFIATO E DRENAGGIO SERIE ECDE-...
COSTRUITE IN ACCORDO ALLE NORMATIVE:

EN 60079-0:2012
EN 60079-7:2015
EN 60079-31:2014
EN 60529
IN ACCORDO ALLA DIRETTIVA ATEX 2014/34/UE DEL26-02-2014

IEC 60079-0:2011
IEC 60079-7:2015
IEC 60079-31:2013
IEC 60529
IN ACCORDO ALLO SCHEMA IECEX

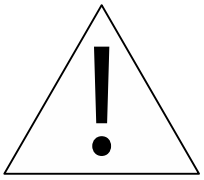
Mounting instructions of drain and breather valve ECDE-...
Manufactured according to the following Standards:

EN 60079-0:2012
EN 60079-7:2015
EN 60079-31:2014
EN 60529
according to ATEX directive 2014/34/UE del26-02-2014

IEC 60079-0:2011
IEC 60079-7:2015
IEC 60079-31:2013
IEC 60529
according to IECEx scheme

ECDE-B Ex CE 0722 II GD
CML 16 ATEX 1351U
Ex eb IIC Gb Ex tb IIIC Db IP66
IECEx CML 16.0124U

ECDE-D Ex CE 0722 II GD
CML 16 ATEX 1351U
Ex eb IIC Gb Ex tb IIIC Db IP66
IECEx CML 16.0124U



ISTRUZIONI DI SICUREZZA

RIVOLTE A PERSONALE QUALIFICATO IN ACCORDO CON LE LEGGI NAZIONALI, INCLUSE LE RELATIVE NORME E, DOVE APPLICABILE IN ACCORDO CON IEC 60079-17 RIGUARDANTE LE APPARECCHIATURE ELETTRICHE PER ATMOSFERE POTENZIALMENTE ESPLOSIVE.

- NON SONO AMMESSE MODIFICHE AL PRODOTTO

-LA VALVOLINA PUÒ ESSERE INSTALLATA SOLO SE COMPLETAMENTE INTEGRA

- DEVONO ESSERE UTILIZZATE SOLO PARTI DI RICAMBIO ELFIT/CORTEM

- DEVONO ESSERE SEGUITE SCRUPOLOSAMENTE LE SEGUENTI ISTRUZIONI PER OTTENERE UNA PERFETTA INSTALLAZIONE

- DEVONO ESSERE STRETTAMENTE OSSERVATE LE NOME NAZIONALI DI SICUREZZA E PREVENZIONE INFORTUNI, E LE PRESCRIZIONI INDICATE CON NEL PRESENTE FASCICOLO TECNICO.

SAFETY INSTRUCTIONS

To the attention of qualified personnel in accordance with national legislation and its attendant regulations and, if applicable, in accordance with IEC60079-17 concerning electrical equipment for high-explosive areas.

- Product modifications are not allowed

-The valve can be fit up only if thoroughly intact

-Only ELFIT/CORTEM spare parts must be used

- In order to get a proper installation, the following instruction must be thou roughly followed.

- National safety rules and accident prevention standards as well as all the requirements which are represented by in this technical dossier must be strictly observed.

ISTRUZIONI PER IL MONTAGGIO

1) IL MONTAGGIO DEI VARI COMPONENTI DELLE VALVOLINE SERIE ECDE, VIENE EFFETTUATO IN FABBRICA

2) LA VALVOLINA FUNGE DA SFIATO NELLA VERSIONE ECDE-B (SCHEMA A), O DA DRENAGGIO NELLA VERSIONE ECDE-D (SCHEMA B)

3) PER ASSICURARE UNA TENUTA LP TRA VALVOLINA E LA CASSETTA, SI DEVE PROCEDERE COME EVIDENZIATO NELLO SCHEMA C

4) PER LA PULIZIA DELLA VALVOLINA, SI DEVE SMONTARE LA STESSA DALLA CASSETTA, ASSICURANDOSI DI AVERE PREVENTIVAMENTE EFFETTUATO LA MESSA FUORI TENSIONE DELLA CASSETTA, PROCEDENDO SUCCESSIVAMENTE ALLO SMONTAGGIO DI TUTTI I COMPONENTI COME DA SCHEMA
DOPO LA PULIZIA SI DEVE RIMONTARE LA VALVOLINA PROCEDENDO IN SENSO INVERSE DA COME INDICATE IN SCHEMA F PER ECD-1.. O SCHEMA G PER ECD-2.. E SUCCESSIVAMENTE RIDARE TENSIONE ALLA CASSETTA.

MOUNTING INSTRUCTIONS

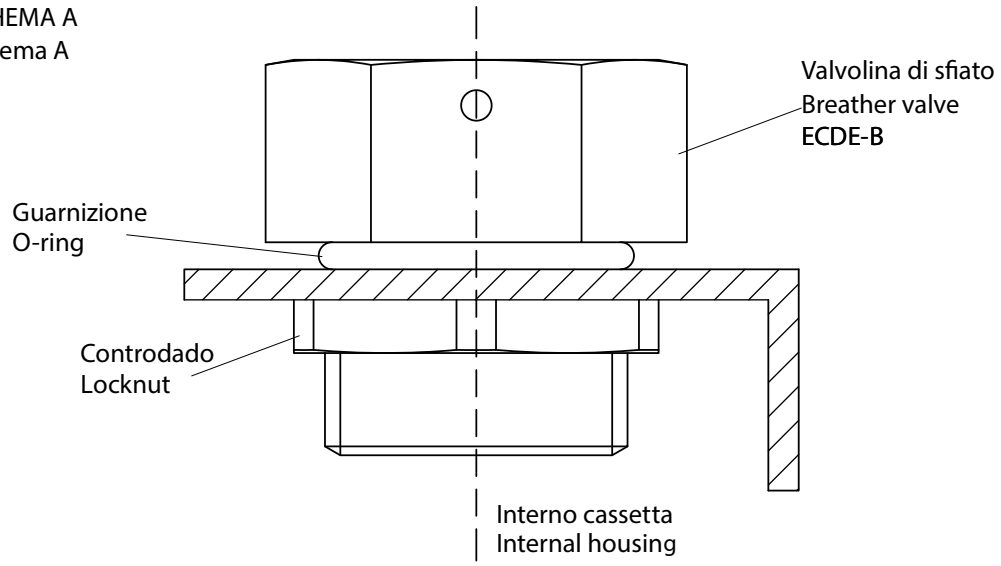
1) The assembly of the components of the models ECDE valve is made in the factory

2) The valve is used as breather in the ECDE-B version (scheme A), or drain in the ECDE-D version (scheme B)

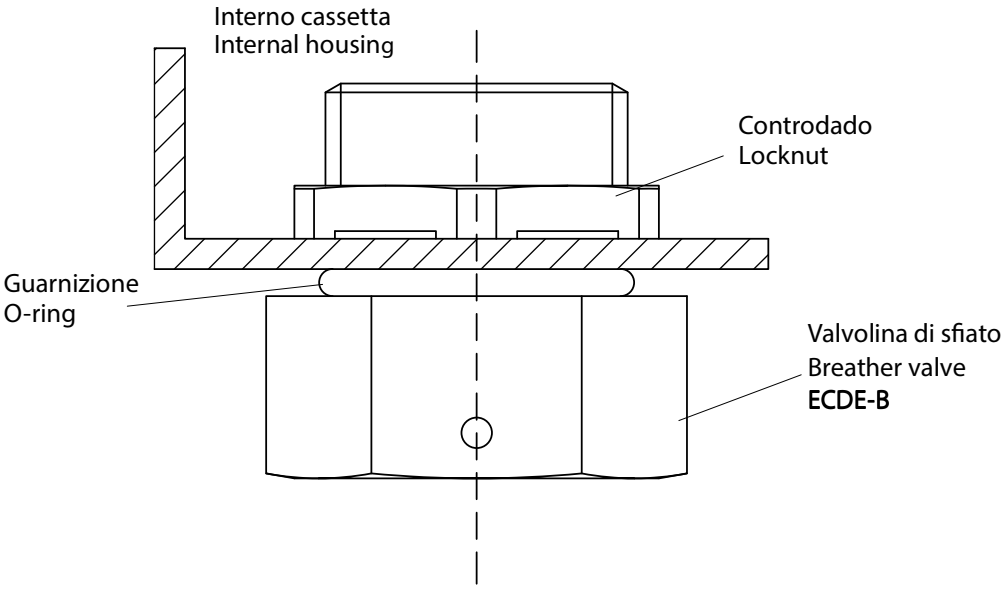
3) To ensure a IP protection between valve and enclosure, it shall be as shown in Scheme C.

4) For the cleaning of the valve you must strip down it from the junction box , making sure you have previously removed power to the junction box, proceeding subsequently the dismantling of the components as in the scheme D
After the cleaning you must reassemble it proceeding in the opposite direction as indicated in the scheme F for ECD-1.. or scheme G for ECD-2.. and then restore power to the junction box.

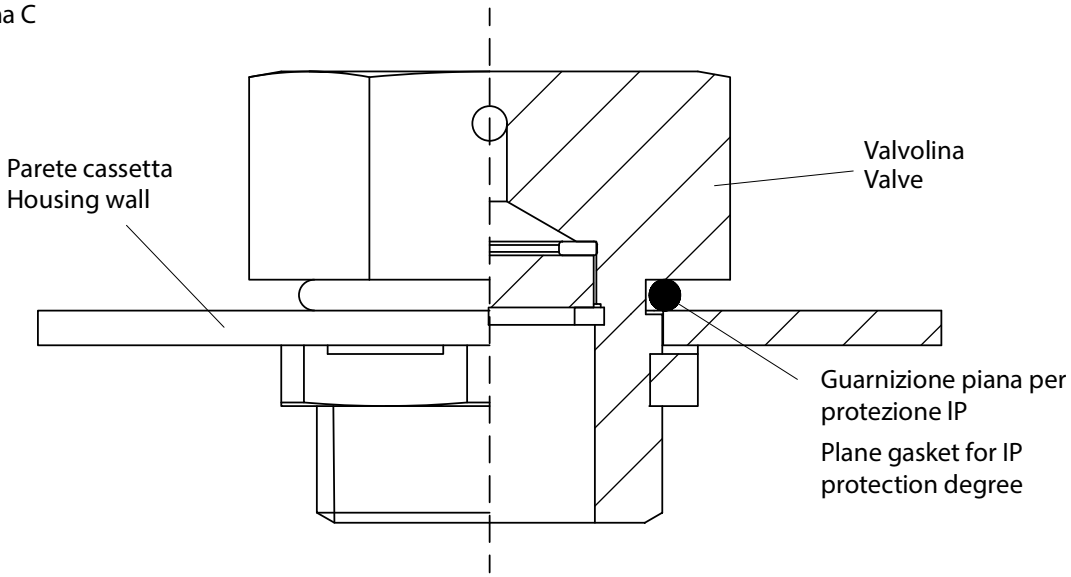
SCHEMA A
Schema A



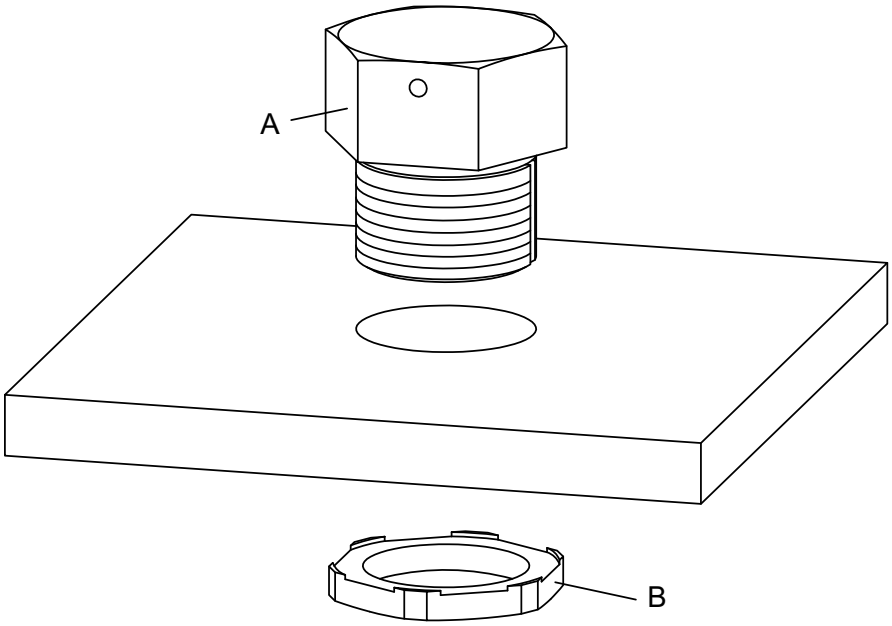
SCHEMA B
Schema B




SCHEMA C
Schema C

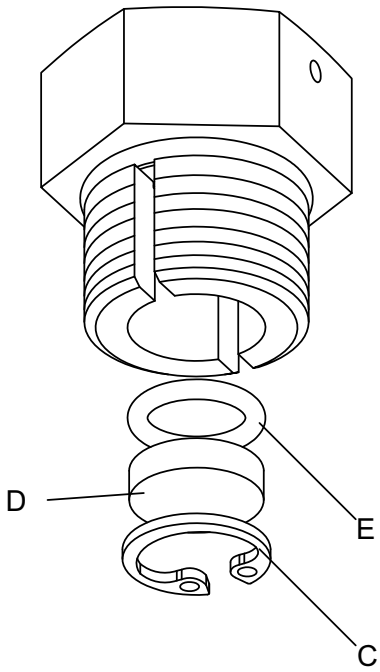


SCHEMA D
Schema D




1 - SMONTARE LA VALVOLINA (A) DALLA CASSETTA, DOPO AVER TOLTO TENSIONE DALLA STESSA, AGENDA SUL CONTRODADO (B).
2 - TOGLIERE CON L'AIUTO DI PINZE APPOSITE, LA RONDELLA ELASTICA (C), QUINDI TOGLIERE IL FILTRO (D) E L'O-RING (E)
3 - EFFETTUARE LA PULIZIA DEL COMPONENTE ECDE
4 - RIMONTARE LA VALVOLINA ECDE PROCEDENDO IN SENSO INVERSE A QUANTO INDICATE NEI PUNTI PRECEDENTI

1 - USING THE LOCKNUT (B) STRIP DOWN THE VALVE (A) FROM THE JUNCTION BOX, AFTER CUTTING POWER FROM IT.
2 - REMOVE THE INTERNAL RETAINS RING (C) WITH THE PROPER PLIERS, THEN REMOVE THE FILTER (D) AND THE O-RING (E)
3 - MAKE THE CLEANING OF THE COMPONENT ECDE
4 - REASSEMBLE THE VALVE ECDE PROCEEDING IN THE OPPOSITE DIRECTION AS INDICATED IN THE ABOVE MENTIONED POINTS



**CORTEM s.p.a.**
cap. soc.€ 1.578.000,00 i.v.
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Registro Imprese Gorizia 00052120318
Cod.Fisc. e Partita Iva **IT00052120318**
*Eco-contributo RAEE assolto ove dovuto n° Registro A.E.E. IT08020000001818*

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =
COMPANY WITH ENVIRONMENTAL SYSTEM CERTIFIED BY DNV = ISO 14001 =

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Email: infomilano@cortemgroup.com Web site www.cortemgroup.com

Member of CORTEM GROUP
To be sure to be safe.

# DICHIARAZIONE DI CONFORMITA' *DECLARATION OF CONFORMITY*

## N° 0215

**Il costruttore:**
***We:***

**CORTEM S.p.A.**
**Via Aquileia, 10**
**34070 VILLESSE (GO) - ITALY**

**Dichiara con la presente la conformità allo schema IECEx, del Prodotto**
***Hereby declares the conformity to IECEx scheme, of the Product***

| | |
|---|---|
| Valvole di sfiato e drenaggio:<br>Breather and drain valves: | **ECDE…** |
| Modo di protezione:<br>*Protection mode:* | **Ex eb IIC Gb**<br>**Ex tb IIIC Db**<br>**IP66** |
| Temperatura ambiente:<br>*Ambient temperature:* | **-60°C÷+150°C** |
| Certificato:<br>*Certificate:* | **IECEx CML 16.0124X** |

**In accordo con le seguenti norme IEC:**
***In accordance with the following IEC Standards:***

**IEC 60079-0: 2011 Ed.6.0**
**IEC 60079-7: 2015 Ed.5.0**
**IEC 60079-31:2013 Ed.2.0**
**IEC 60529: 2001**

**Villesse, 29.09.2016**

**Firma**
***Signature*** . . . . . .
**Riccardo Gratton**
**Vice-president**

PART 1 – DESIGN DOSSIER

- Piping Classes N/A

PART 1 – DESIGN DOSSIER

- Calculation Notes N/A

PART 1 – DESIGN DOSSIER

- Equipment requisitions – Vendor Asset Register Doc. No. 1724001299-IN-LIS-00006

Base Load Power Hub (BLPH)

# VENDOR ASSET REGISTER

INS JB

Document Number: 1724001299-IN-LIS-00006

Document Class: 2

ROSETTI MARINO

| | |
|---|---|
| 1 | NO COMMENTS - APPROVED - WORK MAY PROCEED |
| 2 | MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED |
| 3 | MAJOR COMMENTS – REJECTED – DO NOT PROCEED |
| 4 | APPROVAL NOT REQUIRED |

***NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.***

| Sign | Date |
|---|---|
| V. Barratta | 30-08-2024 |

| Rev. | Date | Description | Prepared | Reviewed | Approved |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
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| | | | | | |
| 01 | 08/08/2024 | Accepted for Construction (AFC) | M. MENEGUZZI | S.ZIANI | A. DELLA RICCA |
| 00 | 22/07/2024 | Issue for Review (IFR) | M. MENEGUZZI | S.ZIANI | A. DELLA RICCA |

CORTEM GROUP
To be sure to be safe.



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| 2 | Table of Contents | X | X | | | | | | |
| 3 | Revision / Change Log | X | X | | | | | | |
| 4 | References | X | X | | | | | | |
| 5 | Asset Register | X | X | | | | | | |




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Revision / Change Log

| Rev. | Description |
|---|---|
| 00 | ISSUE FOR REVIEW (IFR) |
| 01 | ACCEPTED FOR CONSTRUCTION (AFC) |
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| Tag Number | Tag Description | Physical Class Name | Location | System/SubSystem Code | Purchase Order Number | Vendor Company Name | Manufacturer Company Name | Model Number | Equipment Manufacturer Serial Number | Model Part No | Hazardous Area Equip Relevant | Hazardous Area Certificate Standard | Hazardous Area Certifying Authority | Hazardous Area Certificate Number | Atex Classification | Explosion Protection Examination Certificate Document Number | Layout Drawing | Datasheet | Assembly/Dimensional Drawing | General Arrangement | Operating & Maintenance Manual | Wiring Diagram | Spare Parts List | Lubricant Document Reference | Criticality | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 00-JE-11005 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-12002 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-12003 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-01103 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
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| 950-JE-04102 | Junction Box | - | Lower Deck (B-400) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| SPARE | Junction Box | - | N.A. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| SPARE | Junction Box | - | N.A. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-05102 | Junction Box | - | Lower Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-06102 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| SPARE | Junction Box | - | N.A. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-21002 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87925 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-01101 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-01102 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-03102 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04101 | Junction Box | - | Lower Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04201 | Junction Box | - | Lower Deck (B-200) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04205 | Junction Box | - | Lower Deck (B-300) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-06101 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-06201 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-02103 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87926 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-11002 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87928 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-11004 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87928 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-12005 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87928 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-21001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87929 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-11001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87932 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-11003 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87932 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-12001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87932 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-12004 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87932 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-12006 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87932 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-22001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87933 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-22002 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB48482051 | 24/87934 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-02101 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB45382051 | 24/87931 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-02102 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB45382051 | 24/87931 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-03101 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB45382051 | 24/87931 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-05101 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB45382051 | 24/87931 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-13001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-23002 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-01104 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-02104 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-03104 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04103 | Junction Box | - | Lower Deck (B-400) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04203 | Junction Box | - | Lower Deck (B-200) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-05103 | Junction Box | - | Lower Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-06103 | Junction Box | - | Lower Deck (B-100) Ext. | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-06203 | Junction Box | - | Lower Deck (B-100) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-07101 | Junction Box | - | Transition Piece | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87927 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-13001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87930 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-13002 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87930 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 00-JE-23001 | Junction Box | - | Upper Deck | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87930 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04207 | Junction Box | - | Lower Deck (B-300) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB30302051 | 24/87930 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04204 | Junction Box | - | Lower Deck (B-200) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87924 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-04208 | Junction Box | - | Lower Deck (B-300) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87924 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |
| 950-JE-06204 | Junction Box | - | Lower Deck (B-100) | - | 1724001299 | Cortem Spa | Cortem Spa | CTB26261651 | 24/87924 | NA | - | EN IEC 60079-0:2018 | CESI Spa | CESI 03 ATEX 333/05 | Zone 1 | 1724001299-IN-LIS-00005 | 1724001299-IN-DA-00003 | 1724001299-IN-DS-00004 | 1724001299-IN-DA-00003 | 1724001299-IN-DA-00003 | 1724001299-IN-MAN-00008 | 1724001299-IN-DA-00003 | NA | NA | NA | NA |

PART 1 – DESIGN DOSSIER

- Data Sheets

- Equipment Technical Datasheet - Doc. No. 1724001299-IN-DS-00004

# Base Load Power Hub (BLPH)

INS JB

EQUIPMENT TECHNICAL DATA SHEET

Document Number:1724001299-IN-DS-00004

Document Class: 2

ROSETTI MARINO

| | |
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| 1 | NO COMMENTS - APPROVED - WORK MAY PROCEED |
| 2 | MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED |
| 3 | MAJOR COMMENTS – REJECTED – DO NOT PROCEED |
| 4 | APPROVAL NOT REQUIRED |

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| Sign | Date |
|---|---|
| V. Ba rrat ta | 12 -09 -20 24 |

| Rev. | Date | Description | Prepared | Reviewed | Approved |
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| 02 | 06/09/2024 | Accepted for Construction (AFC) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |
| 01 | 07/08/2024 | Accepted for Construction (AFC) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |
| 00 | 22/07/2024 | Issue for Review (IFR) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |

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## Revision / Change Log

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| 00 | Issue for Review (IFR) |
| 01 | Accepted for Construction (AFC) |
| 02 | Accepted for Construction (AFC) |
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## HOLDS LIST

| No. | Description |
|---|---|
| 1. | |
| 2. | |
| 3. | |
| 4. | |

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# Instrument Junction Boxes Tag list

## Ex-e Execution type

M.C. 6x2x0,75mm$^2$

| | TYPE 1A (AI/AO/DI) |
|---|---|
| 1 | 00-JE-11005 |
| 2 | 00-JE-12002 |
| 3 | 00-JE-12003 |
| 4 | 00-JE-21002 |
| 5 | 950-JE-01103 |
| 6 | 950-JE-03103 |
| 7 | 950-JE-04102 |
| 8 | SPARE |
| 9 | SPARE |
| 10 | 950-JE-05102 |
| 11 | 950-JE-06102 |
| 12 | SPARE |

M.C. 6x3x2,5mm$^2$

| | TYPE 1B (AI) |
|---|---|
| 1 | 950-JE-01101 |
| 2 | 950-JE-01102 |
| 3 | 950-JE-03102 |
| 4 | 950-JE-04101 |
| 5 | 950-JE-04201 |
| 6 | 950-JE-04205 |
| 7 | 950-JE-06101 |
| 8 | 950-JE-06201 |
| 9 | 950-JE-02103 |

M.C. 12x2x0,75mm$^2$

| | TYPE 1C (AI/AO/DI) |
|---|---|
| 1 | 00-JE-11002 |
| 2 | 00-JE-11004 |
| 3 | 00-JE-12005 |
| 4 | 00-JE-21001 |

M.C. 2x(12x2x0,75mm$^2$)

| | TYPE 1D (AI/AO/DI) |
|---|---|
| 1 | 00-JE-11001 |
| 2 | 00-JE-11003 |
| 3 | 00-JE-12001 |
| 4 | 00-JE-12004 |
| 5 | 00-JE-12006 |
| 6 | 00-JE-22001 |
| 7 | 00-JE-22002 |

M.C. 12x3x2,5mm$^2$

| | TYPE 1E (AI) |
|---|---|
| 1 | 950-JE-02101 |
| 2 | 950-JE-02102 |
| 3 | 950-JE-03101 |
| 4 | 950-JE-05101 |

M.C. 12x2,5mm$^2$

| | TYPE 2A (DO) |
|---|---|
| 1 | 00-JE-13003 |
| 2 | 00-JE-23002 |
| 3 | 950-JE-01104 |
| 4 | 950-JE-02104 |
| 5 | 950-JE-03104 |
| 6 | 950-JE-04103 |
| 7 | 950-JE-04203 |
| 8 | 950-JE-05103 |
| 9 | 950-JE-06103 |
| 10 | 950-JE-06203 |
| 11 | 950-JE-07101 |

M.C. 24x2,5mm$^2$

| | TYPE 2B (DO) |
|---|---|
| 1 | 00-JE-13001 |
| 2 | 00-JE-13002 |
| 3 | 00-JE-23001 |
| 4 | 950-JE-04207 |

## Intrinsecally Safe type

M.C. 6x2x0,75mm$^2$

| | TYPE 3A (DI)<br>(1 M25 + 6 M20) |
|---|---|
| 1 | 950-JE-04204 |
| 2 | 950-JE-04208 |
| 3 | 950-JE-06204 |

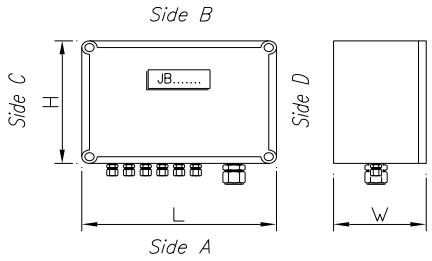
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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 12 | *Refer to page 5* | CORTEM | CTB262616S1/C2402708/30 |

CABLE ENTRIES: 1 M25 + 6 M20

**TYPE - 1A**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | HORIZONTAL | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material — Enclosure | ☑ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ | |
| Material — Internal/external Screw | ☑ Stanless Steel A4 | ☐ | | | |
| Material — Internal Bottom Plate | ☑ Stanless Steel | ☑ | | | |
| Material — Name Plate | ☑ Plastic | ☐ | | | |
| Options — Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated / ☐ Not Insulated | |
| Options — Cover with Hinge | ☐ Yes | ☑ No | | | |
| Options — Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes | ☐ No |

| Dimensions | | Thickness | | Electrical Connection | Terminal Quantity | | |
|---|---|---|---|---|---|---|---|
| L VTA mm | | Wall VTA mm | | ☑ By Strip | 19 | Type | ☐ Unloosening ☑ Size 2,5 mm2 |
| H VTA mm | | End Plate VTA mm | | | | Material | ☑ Thermoplastic ☐ Thermoseting |
| W VTA mm | | Cover VTA mm | | | | Colour | ☑ Std Manufac. ☐ Blue Ex-i |
| | | | | | Terminals No. | Mounting On | ☐ "C" Bar according to std. EN-50 035 |
| Name Plate | Dimension (Lx H) | VTA mm | | ☐ | *TB-1: 1, 2, SH, 3, 4, SH, … 11, 12, SH, OS* | | ☑ "Ω" Bar according to std. EN-50 022 |
| | Engraved Characters Height | 10 mm | | | | Arrangement | ☑ Single Row ☐ Double Column |

| Side | Hole Dimensions — Threaded Q.ty | Threaded Size | Unthreaded Q.ty | Unthreaded Size | Cable Glands ☐ Ex-e/d Q.ty | Cable Glands Size | Conduit Seals Q.ty | Conduit Seals Size | Plugs (SS316 Ex-e) Q.ty | Plugs Size | Type of cable — Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | / | / | 1 | M25 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 6 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | | | | | | | | | | | ☐ | ☐ | | | |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |

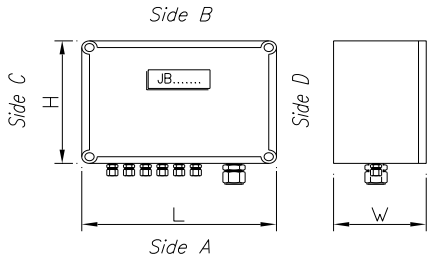
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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 9 | *Refer to page 5* | **CORTEM** | **CTB262616S1/C2402708/40** |

CABLE ENTRIES: 1 M32 + 6 M20

**TYPE - 1B**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. II C | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | **HORIZONTAL** | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material | Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ |
| | Internal/external Screw | ☑ Stanless Steel A4 | ☐ | | |
| | Internal Bottom Plate | ☑ Stanless Steel | ☑ | | |
| | Name Plate | ☑ Plastic | ☐ | | |
| Options | Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated |
| | Cover with Hinge | ☐ Yes | ☑ No | | ☐ Not Insulated |
| | Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes ☐ No |

| Dimensions | | | Thickness | | | Electrical Connection | Terminal Quantity | Type | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L | VTA | mm | Wall | VTA | mm | ☑ By Strip | **25** | Material | ☑ Thermoplastic | ☐ Thermoseting | |
| H | VTA | mm | End Plate | VTA | mm | | | Colour | ☑ Std Manufac. | ☐ Blue Ex-i | |
| W | VTA | mm | Cover | VTA | mm | | Terminals No. | Mounting On | ☐ "C" Bar according to std. EN-50 035 | | |
| Name Plate | Dimension (Lx H) | | VTA | mm | | ☐ | *TB-1: 1, 2, SH, 3, 4, SH, … 17, 18, SH, OS* | | ☑ "Ω" Bar according to std. EN-50 022 | | |
| | Engraved Characters Height | | 10 | mm | | | | Arrangement | ☑ Single Row | ☐ Double Column | |

| Side | Hole Dimensions | | | | Cable Glands | | Conduit Seals | | Plugs (SS316 Ex-e) | | Type of cable | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Threaded | | Unthreaded | | ☐ Ex-e/d | | | | | | Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
| | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | | | | | |
| A | / | / | 1 | M32 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 6 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | | | | | | | | | | | ☐ | ☐ | | | |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |



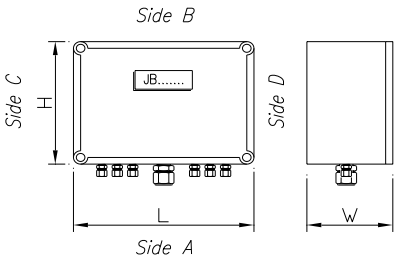
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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| **4 (1)** | *Refer to page 5* | **CORTEM** | **CTB303020S1/C2402708/50** |

CABLE ENTRIES: 1 M25 + 12 M20 (1)

**TYPE - 1C**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | **HORIZONTAL** | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material | Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ |
| | Internal/external Screw | ☑ Stanless Steel A4 | ☑ | | |
| | Internal Bottom Plate | ☑ Stanless Steel | ☐ | | |
| | Name Plate | ☑ Plastic | ☐ | | |
| Options | Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated |
| | Cover with Hinge | ☐ Yes | ☑ No | | ☐ Not Insulated |
| | Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes ☐ No |

| Dimensions | | | Thickness | | | Electrical Connection | Terminal Quantity | |
|---|---|---|---|---|---|---|---|---|
| L | VTA | mm | Wall | VTA | mm | ☑ By Strip | **37** | |
| H | VTA | mm | End Plate | VTA | mm | | | |
| W | VTA | mm | Cover | VTA | mm | | Terminals No. | |
| Name Plate | Dimension (Lx H) | | VTA | | mm | ☐ | *TB-1: 1, 2, SH, 3, 4, SH, … 23, 24, SH, OS* | |
| | Engraved Characters Height | | 10 | | mm | | | |

| Type | ☐ Unloosening | ☑ Size 2,5 mm2 |
|---|---|---|
| Material | ☑ Thermoplastic | ☐ Thermoseting |
| Colour | ☑ Std Manuf ac. | ☐ Blue Ex-i |
| Mounting On | ☐ "C" Bar according to std. EN-50 035 | |
| | ☑ "Ω" Bar according to std. EN-50 022 | |
| Arrangement | ☑ Single Row | ☐ Double Column |

| Side | Hole Dimensions | | | | Cable Glands | | Conduit Seals | | Plugs (SS316 Ex-e) | | Type of cable | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Threaded | | Unthreaded | | ☐ Ex-e/d | | | | | | Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
| | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | | | | | |
| A | / | / | 1 | M25 (1) | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 12 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 1 (1) | M32 (1) | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |

**1) For 00-JE-21001 only, Multicore cable entry will be n.1 M32 instead of n.1 M25**

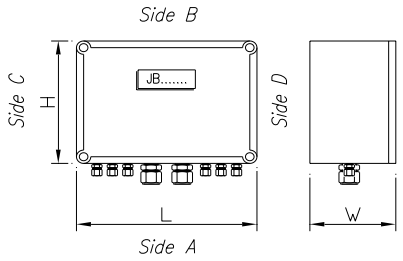

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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 7 (1) | *Refer to page 5* | CORTEM | CTB484820S1/C2402708/60 |

CABLE ENTRIES: 2 M25 + 24 M20 (1) (2)

**TYPE - 1D**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | HORIZONTAL | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material | Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ |
| | Internal/external Screw | ☑ Stanless Steel A4 | ☐ | | |
| | Internal Bottom Plate | ☑ Stanless Steel | ☐ | | |
| | Name Plate | ☑ Plastic | ☐ | | |
| Options | Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated |
| | Cover with Hinge | ☐ Yes | ☑ No | | ☐ Not Insulated |
| | Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes ☐ No |

| Dimensions | | Thickness | | Electrical Connection | Terminal Quantity | |
|---|---|---|---|---|---|---|
| L VTA mm | | Wall VTA mm | | ☑ By Strip | 80 | Type ☐ Unloosening ☑ Size 2,5 mm2 |
| H VTA mm | | End Plate VTA mm | | | | Material ☑ Thermoplastic ☐ Thermoseting |
| W VTA mm | | Cover VTA mm | | | | Colour ☑ Std Manufac. ☐ Blue Ex-i |
| Name Plate | Dimension (Lx H) | VTA mm | | ☐ | Terminals No. | Mounting On ☐ "C" Bar according to std. EN-50 035 |
| | Engraved Characters Height | 10 mm | | | TB-1: 1, 2, SH, 3, 4, SH, ... 23, 24, SH, OS, OS, OS, OS<br>TB-2: 25, 26, SH, 27, 28, SH, ... 47, 48, SH, OS, OS, OS, OS | ☑ "Ω" Bar according to std. EN-50 022 |
| | | | | | | Arrangement ☐ Single Row ☑ Double Column |

| Side | Hole Dimensions | | | | Cable Glands ☐ Ex-e/d | | Conduit Seals | | Plugs (SS316 Ex-e) | | Type of cable | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Threaded | | Unthreaded | | | | | | | | Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
| | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | | | | | |
| A | / | / | 2 | M25 (1) | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 24 | M20 (2) | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 1 (1) | M32 (1) | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☑ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |

**1) For 00-JE-22001 and 00-JE-22002 only, Multicore cables entry will be n.2 M32 instead of n.2 M25**

**2) For 00-JE-22001 only, secondary cable entry will be n.6 M25 + n.18 M20**

**For 00-JE-22002 only, secondary cable entry will be n.4 M25 + n.20 M20**

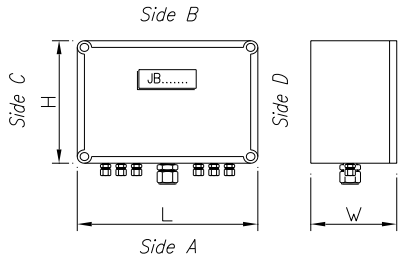
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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 4 | *Refer to page 5* | CORTEM | CTB382620S1/C2402708/70 |

CABLE ENTRIES: 1 M50 + 12 M20

**TYPE - 1E**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | HORIZONTAL | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material: Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ | |
| Material: Internal/external Screw | ☑ Stanless Steel A4 | ☐ | | | |
| Material: Internal Bottom Plate | ☑ Stanless Steel | ☐ | | | |
| Material: Name Plate | ☑ Plastic | ☐ | | | |
| Options: Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated / ☐ Not Insulated | |
| Options: Cover with Hinge | ☐ Yes | ☑ No | | | |
| Options: Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes | ☐ No |

| Dimensions | | Thickness | | Electrical Connection | Terminal Quantity | | |
|---|---|---|---|---|---|---|---|
| L VTA mm | | Wall VTA mm | | ☑ By Strip | 49 | Type | ☐ Unloosening ☑ Size 2,5 mm2 |
| H VTA mm | | End Plate VTA mm | | | | Material | ☑ Thermoplastic ☐ Thermoseting |
| W VTA mm | | Cover VTA mm | | | Terminals No. | Colour | ☑ Std Manufac. ☐ Blue Ex-i |
| Name Plate | Dimension (Lx H) | VTA mm | | ☐ | *TB-1: 1, 2, 3, SH, 4, 5, 6, SH, … 34, 35, 36, SH, OS* | Mounting On | ☐ "C" Bar according to std. EN-50 035<br>☑ "Ω" Bar according to std. EN-50 022 |
| | Engraved Characters Height | 10 mm | | | | Arrangement | ☐ Single Row ☑ Double Column |

| Side | Hole Dimensions: Threaded Q.ty | Threaded Size | Unthreaded Q.ty | Unthreaded Size | Cable Glands ☐ Ex-e/d Q.ty | Cable Glands Size | Conduit Seals Q.ty | Conduit Seals Size | Plugs (SS316 Ex-e) Q.ty | Plugs Size | Type of cable: Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | / | / | 1 | M50 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 12 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | | | | | | | | | | | ☐ | ☐ | | | |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |

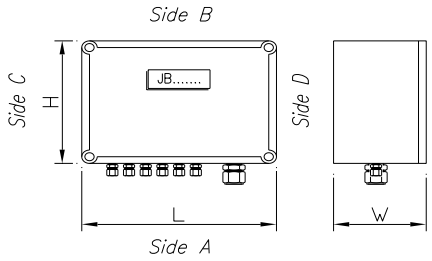
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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 11 | *Refer to page 5* | **CORTEM** | **CTB262616S1/C2402708/80** |

CABLE ENTRIES: 1 M25 + 6 M20

**TYPE - 2A**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | **HORIZONTAL** | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material | Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ |
| | Internal/external Screw | ☑ Stanless Steel A4 | ☐ | | |
| | Internal Bottom Plate | ☑ Stanless Steel | ☐ | | |
| | Name Plate | ☑ Plastic | ☐ | | |
| Options | Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated |
| | Cover with Hinge | ☐ Yes | ☑ No | | ☐ Not Insulated |
| | Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes ☐ No |

| Dimensions | | | Thickness | | | Electrical Connection | Terminal Quantity | |
|---|---|---|---|---|---|---|---|---|
| L | VTA | mm | Wall | VTA | mm | ☑ By Strip | **19** | |
| H | VTA | mm | End Plate | VTA | mm | | | |
| W | VTA | mm | Cover | VTA | mm | | Terminals No. | |
| Name Plate | Dimension (Lx H) | | VTA | | mm | ☐ | *TB-1: 1, 2, SH, 3, 4, SH, … 11, 12, SH, OS* | |
| | Engraved Characters Height | | 10 | | mm | | | |

| Type | | | | Material | | Colour | | Mounting On | | Arrangement | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ☐ Unloosening | ☑ Size 2,5 mm2 | | | ☑ Thermoplastic | ☐ Thermoseting | ☑ Std Manufac. | ☐ Blue Ex-i | ☐ "C" Bar according to std. EN-50 035 | | ☑ Single Row | ☐ Double Column |
| ☐ Insulated | | | | | | | | ☑ "Ω" Bar according to std. EN-50 022 | | | |
| ☐ Not Insulated | | | | | | | | | | | |

| Side | Hole Dimensions | | | | Cable Glands | | Conduit Seals | | Plugs (SS316 Ex-e) | | Type of cable | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Threaded | | Unthreaded | | ☐ Ex-e/d | | | | | | Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
| | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | | | | | |
| A | / | / | 1 | M25 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 6 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | | | | | | | | | | | ☐ | ☐ | | | |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |



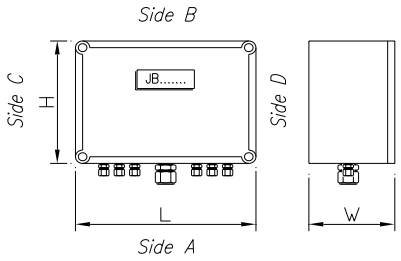
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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 4 | *Refer to page 5* | CORTEM | CTB303020S1/C2402708/90 |

CABLE ENTRIES: 1 M32 + 12 M20

**TYPE - 2B**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | HORIZONTAL | |
| Threads according to Standard | ☐ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☐ Blue RAL 5015 | ☑ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | ☑ Standard Manufacturer | | | |
| Material: Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ | |
| Material: Internal/external Screw | ☑ Stanless Steel A4 | ☐ | | | |
| Material: Internal Bottom Plate | ☑ Stanless Steel | ☐ | | | |
| Material: Name Plate | ☑ Plastic | ☐ | | | |
| Options: Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☐ Insulated / ☐ Not Insulated | |
| Options: Cover with Hinge | ☐ Yes | ☑ No | | | |
| Options: Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes | ☐ No |

| Dimensions | | | Thickness | | | Electrical Connection | Terminal Quantity | Type | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| L | VTA | mm | Wall | VTA | mm | ☑ By Strip | 37 | Material | ☑ Thermoplastic | ☐ Thermoseting | |
| H | VTA | mm | End Plate | VTA | mm | | | Colour | ☑ Std Manufac. | ☐ Blue Ex-i | |
| W | VTA | mm | Cover | VTA | mm | | Terminals No. | Mounting On | ☐ "C" Bar according to std. EN-50 035 | | |
| Name Plate | Dimension (Lx H) | | VTA | | mm | ☐ | *TB-1: 1, 2, SH, 3, 4, SH, … 23, 24, SH, OS* | | ☑ "Ω" Bar according to std. EN-50 022 | | |
| | Engraved Characters Height | | 10 | | mm | | | Arrangement | ☐ Single Row | ☑ Double Column | |

| Side | Hole Dimensions: Threaded Q.ty | Hole Dimensions: Threaded Size | Hole Dimensions: Unthreaded Q.ty | Hole Dimensions: Unthreaded Size | Cable Glands ☐ Ex-e/d Q.ty | Cable Glands ☐ Ex-e/d Size | Conduit Seals Q.ty | Conduit Seals Size | Plugs (SS316Ex-e) Q.ty | Plugs (SS316Ex-e) Size | Type of cable: Armoured | Type of cable: Unarmoured | Type of cable: Formation | Type of cable: External Diameter | Type of cable: Diameter Under Armour |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | / | / | 1 | M32 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 12 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | | | | | | | | | | | ☐ | ☐ | | | |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |

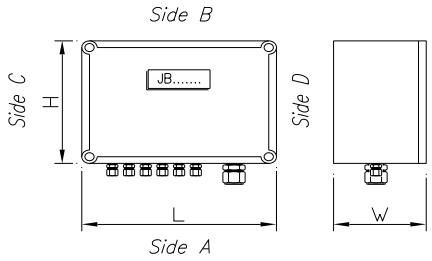

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| Q.TY | ITEM | MANUFACTURER | MODEL |
|---|---|---|---|
| 3 | *Refer to page 5* | **CORTEM** | **CTB262616S1/C2402708/100** |

CABLE ENTRIES: 1 M25 + 6 M20

**TYPE - 3A**

***Drawing***




Gland Plate dimensions: VTA

| | | | | | |
|---|---|---|---|---|---|
| Electrical Construction | ☑ Ex-e | ☐ Ex-i | GR. IIC | Temp. Class T6 | |
| Certificate ATEX | N° | VTA | Standard | | |
| Ingress Protection | ☐ IP55 | ☑ IP66 | Mounting: | **HORIZONTAL** | |
| Threads according to Standard | ☑ ISO 7/1 Rc | ☐ UNI 6125 | ☑ METRIC | ☐ None | |
| External Colour | ☐ Grey RAL 9006 | ☑ Blue RAL 5015 | ☐ Electropolished | | |
| Internal Colour | ☐ Orange RAL 2004 | | ☑ Standard Manufacturer | | |
| Material | Enclosure | ☐ Aluminum | ☑ AISI 316L | ☐ Cast Iron | ☐ |
| | Internal/external Screw | ☑ Stanless Steel A4 | | ☐ | |
| | Internal Bottom Plate | ☑ Stanless Steel | | ☑ | |
| | Name Plate | ☑ Plastic | | ☐ | |
| Options | Earthing Stud | ☑ Internal | ☑ External | Internal Shields Bar | ☑ Insulated |
| | Cover with Hinge | ☐ Yes | ☑ No | | ☐ Not Insulated |
| | Drain Valve | ☑ Yes | ☐ No | Brathing Valve | ☑ Yes ☐ No |

| Dimensions | | | Thickness | | | Electrical Connection | Terminal Quantity | |
|---|---|---|---|---|---|---|---|---|
| L | VTA | mm | Wall | VTA | mm | ☑ By Strip | **19** | |
| H | VTA | mm | End Plate | VTA | mm | | | |
| W | VTA | mm | Cover | VTA | mm | | Terminals No. | |
| Name Plate | Dimension (Lx H) | | VTA | | mm | ☐ | *TB-1: 1, 2, SH, 3, 4, SH, … 11, 12, SH, OS* | |
| | Engraved Characters Height | | 10 | | mm | | | |

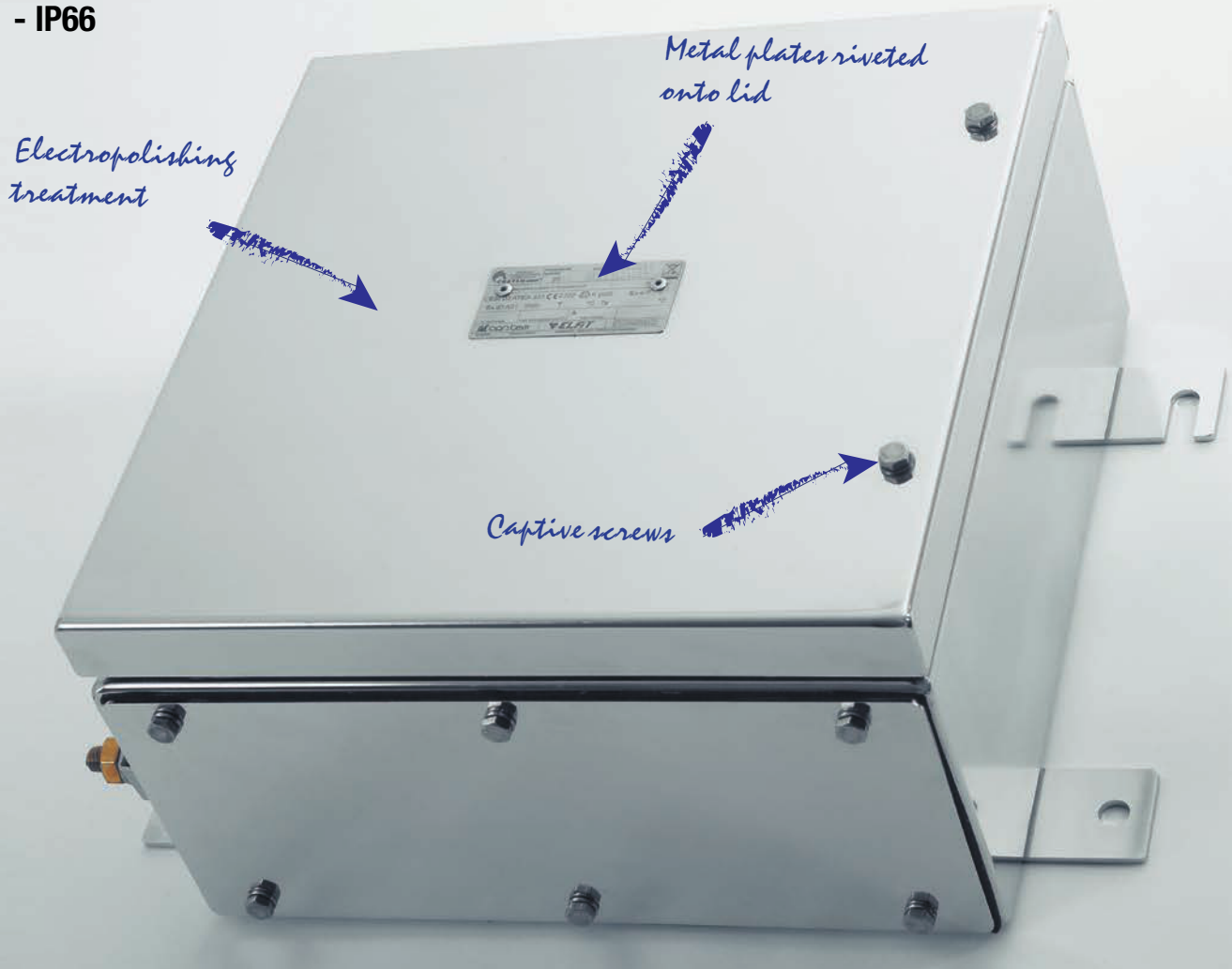
| Type | ☐ Unloosening | ☑ Size 2,5 mm2 |
|---|---|---|
| Material | ☑ Thermoplastic | ☐ Thermoseting |
| Colour | ☑ Std Manuf ac. | ☐ Blue Ex-i |
| Mounting On | ☐ "C" Bar according to std. EN-50 035 | |
| | ☑ "Ω" Bar according to std. EN-50 022 | |
| Arrangement | ☑ Single Row | ☐ Double Column |

| Side | Hole Dimensions | | | | Cable Glands ☐ Ex-i | | Conduit Seals | | Plugs (SS316 Ex-i) | | Type of cable | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Threaded | | Unthreaded | | | | | | | | Armoured | Unarmoured | Formation | External Diameter | Diameter Under Armour |
| | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | Q.ty | Size | | | | | |
| A | / | / | 1 | M25 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | / | / | 6 | M20 | / | / | / | / | / | / | ☐ | ☐ | / | / | / |
| | | | | | | | | | | | ☐ | ☐ | | | |
| B | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| C | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| D | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |
| | | | | | | | | | | | ☐ | ☐ | | | |

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# CTB

- Zone 1, 2, 21, 22
- Electropolished 316 L stainless steel junction boxes
- 25 different sizes
- Gasket resistant to acids and high temperatures
- IK10 mechanical strength
- IP66






Detail of TIG welding of walls



Earth stud with cable anti-rotation bracket



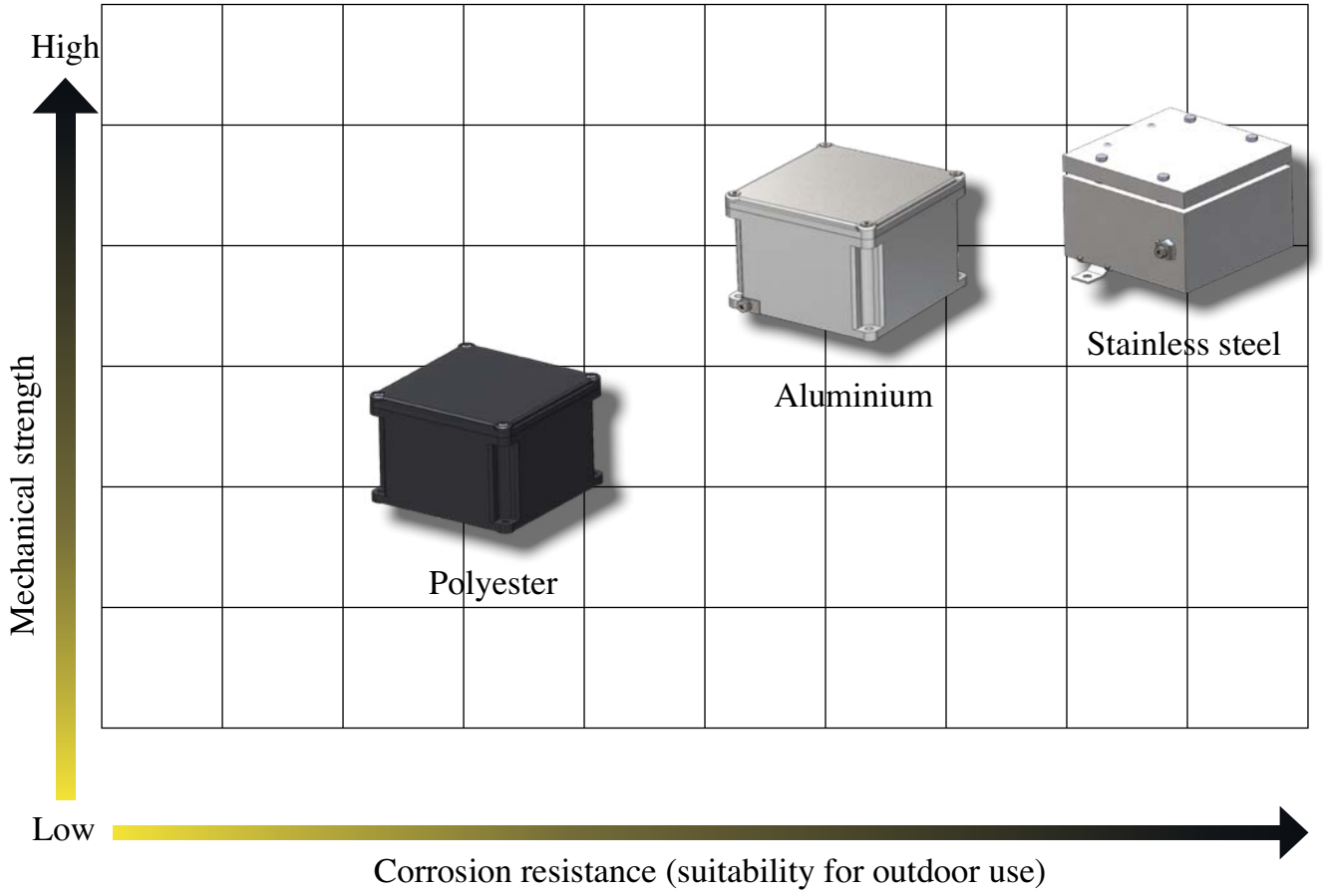
Hinges detail

When it comes to deciding on an increased safety enclosure, there is a whole series of essential data to be taken into account if you are to make the right choice: the mechanical strength of the materials, corrosion resistance, the IP protection rating and IK impact protection rating in the case of enclosures for watertight/ industrial use.

### Mechanical strength

| Properties | Unit | Stainless steel | Aluminium | Polyester |
|---|---|---|---|---|
| Density | $g/cm^3$ | 8.0 | 2.65 | 1.7 |
| Tensile strength | MPa | 500-700 | 80-110 | 130 |
| Elongation | % | 60-40 | 4-10 | 2 |
| Modulus of elasticity | GPa | 193 | 79 | 11 |
| Yield strength | MPa | ≥ 200 | 80-165 | - |
| Coeff. of thermal expansion (20-100°C) | $10^{-6}K^{-1}$ | 16 | 21 | - |
| Resistivity | Ωm | $7.5x10^{-7}$ | $4.8x10^{-8}$ | - |
| Electrical conductivity | $\Omega^{-1}m^{-1}$ | $1.33x10^{6}$ | $2.08x10^{7}$ | - |

The graph below gives an overview of what use the various materials are suitable for based on the mechanical stress and harshness of the environmental conditions likely to be encountered.



## IP PROTECTION RATINGS (IEC 529, EN 60529-4, CEI 70-1 ed. 11/92)

The table gives protection ratings in accordance with standard CEI 70-1 ed. 11/92. Ratings are identified by the acronym IP followed by 2 digits, to which 2 letters may be added, indicating the degree to which persons are protected against access or other properties There is some variation in the application of ratings 7 and 8 relating to the ingress of liquids, with these ratings not always meaning that the item is suitable for lower levels (whereas IP rating x4 also covers the lower levels).

## IMPACT PROTECTION RATINGS

This classification shows the acceptable level of strength, when evaluating a product's safety, and is mainly employed in relation to testing on electromechanical products.

### 1ST DIGIT
PROTECTION AGAINST SOLID OBJECTS

| | |
|---|---|
| 0 | Not protected |
| 1 | Protected against solid objects greater than 50mm in Ø |
| 2 | Protected against solid objects greater than 12mm in Ø |
| 3 | Protected against solid objects greater than 2.5mm in Ø |
| 4 | Protected against solid objects greater than 1mm in Ø |
| 5 | Protected against dust |
| 6 | Totally protected against the ingress of dust |

### 2ND DIGIT
PROTECTION AGAINST MOISTURE

| | |
|---|---|
| 0 | Not protected |
| 1 | Protected against vertically falling drops of water |
| 2 | Protected against rain when tilted up to 15° |
| 3 | Protected against rain when tilted up to 60° |
| 4 | Protected against splashing water |
| 5 | Protected against jets of water from all directions |
| 6 | Protected against heavy seas |
| 7 | Protected against the effects of immersion |
| 8 | Protected against the effects of continuous immersion |

### PROTECTION AGAINST EXTERNAL MECHANICAL IMPACT *

| | | |
|---|---|---|
| IK00 | | Not protected |
| IK01 | 0.25 kg, 5.6 cm | Protected against impact energy of 0.15J |
| IK03 | 0.25 kg, 14 cm | Protected against impact energy of 0.35J |
| IK05 | 0.25 kg, 28 cm | Protected against impact energy of 0.7J |
| IK06 | 0.25 kg, 40 cm | Protected against impact energy of 1J |
| IK07 | 0.5 kg, 40 cm | Protected against impact energy of 2J |
| IK08 | 1.7 kg, 30 cm | Protected against impact energy of 5J |
| IK09 | 5 kg, 20 cm | Protected against impact energy of 10J |
| IK10 | 5 kg, 40 cm | Protected against impact energy of 20J |

### ADDITIONAL LETTER**

| | |
|---|---|
| A | Protected against access with the back of the hand |
| B | Protected against access with a finger |
| C | Protected against access with a tool |
| D | Protected against access with a wire |

### OPTIONAL LETTER

| | |
|---|---|
| H | High-voltage device |
| M | Tested against the harmful effects of water ingress with the equipment running |
| S | Tested against the harmful effects of water ingress with the equipment not running |
| W | Suitable for use in specified atmospheric conditions |

* As per IEC EN 50102: 1996-05; IEC EN 60078-2-7-5: 1998-09.

** Optional letter describing protection against access by persons. Only used if protection against access to hazardous parts is greater than that indicated by the first digit, or if only protection against access to hazardous parts is given and an X is used in place of the first digit.

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes

CTB, CSTB junction box series is made from AISI 316L stainless steel sheet to ensure correct service in the aggressive environments it is installed in. With their high standard of quality and use of select raw materials processed with cutting-edge technologies, these boxes successfully withstand harsh external factors, such as water, dust, hard knocks, vibrations, corrosion and extreme fluctuations in temperature, ensuring a very long period of consistently reliable service. CTB, CSTB series enclosures are usually installed in industrial plants where there is a risk of explosion and fire, classified as Zone 1, 2, 21, 22; they are mainly used as junction boxes or for routing cables for analogue or digital signals and for control and monitoring associated with equipment such as motors, pumps...etc.. The enclosures' main purpose is to protect the components inside from external factors, such as moisture or dust, which means they must have a suitable IP rating. Cortem tests its enclosures according to standard EN 60529 in its own accredited laboratory to provide assurance that this requirement is met. Cortem works alongside customers as a reliable partner, configuring custom solutions tailored to their individual requirements and offering an extensive range of ideal products and components that are configured to produce cost-effective bespoke solutions.

Cortem Group labels its products with a non-removable adhesive label featuring a hologram and an alphanumerical univocal code, as a safety measure against the illegal sale of fakes so that all the products are guaranteed as original. Non-compliance with the International standards entails serious risks for the environment, especially for those working daily on the plants.




TYPE AND APPLICATION

Choosing an appropriate container is a key step in the project development process, making it essential to approach the decision systematically, evaluating all variables methodically: where our equipment is being installed, the environmental conditions on site, what degree of protection it must have, what space is available and how it is due to be set up. Once you have processed all this information, you should be able to determine which product best suits the design requirements in question.

ENVIRONMENTAL CONDITIONS

The first factor to consider is what environmental conditions the equipment is going to be installed in, whether it will be indoors or outside, and what environments it is required to operate in: pharmaceutical, chemical, petrochemical, food, shipbuilding, agricultural industries...

DIMENSIONS

The size of the space available for inserting the enclosure and its components must be determined early on in the process.

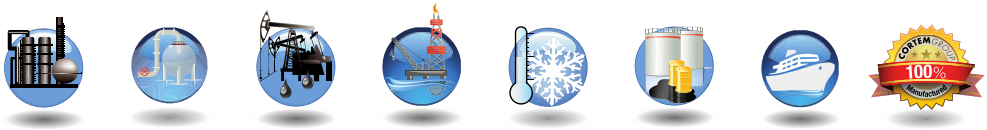
DESIGN

Taking into account the technical aspect, product design and appearance is also important in ensuring the equipment to be installed in the enclosure is integrated seamlessly. A Cortem team of experts is on hand every day to address your questions and come up with the best solutions.

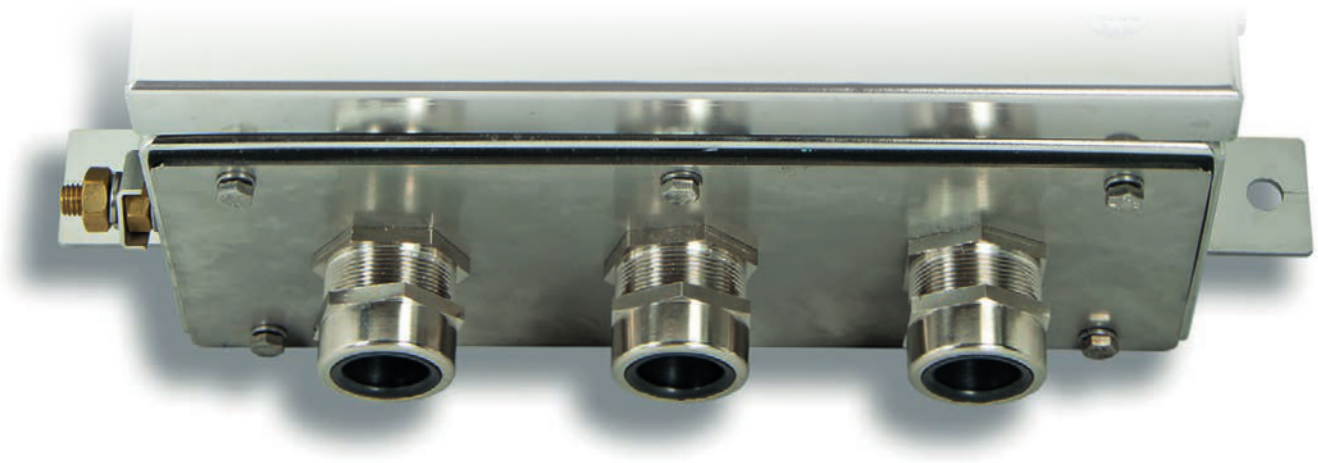
Cortem enclosures have passed:

- IP protection testing;
- IK strength testing;
- salt mist testing for corrosion resistance;
- heat resistance testing;
- low temperature resistance testing.

**Application sectors:**




**Oil refineries** | **Chemical and petrochemical plants** | **Onshore plants** | **Offshore plants** | **Low temperatures** | **Fuel depots** | **Ships and shipbuilding** | **100% Cortem product**



## CERTIFICATION DATA FOR ENCLOSURES WITH TERMINALS

| | | | | |
|---|---|---|---|---|
| **Classification:** | Group II | Category 2GD | | |
| **Installation:** EN 60079.14 | zone 1 - zone 2 (Gas) | zone 21 - zone 22 (Dust) | | |
| **Marking:** | CE 0722 Ex II 2GD Ex eb IIC T6/T5/T4 Gb - Ex tb IIIC T75°C/T110°C Db IP66 | | | |
| | CE 0722 Ex II 2GD Ex e ia IIC T6/T5/T4 Gb - Ex ia IIIC T75°C/T110°C Db IP66 | | | |
| | CE 0722 Ex II 2GD Ex eb ia IIC T6/T5/T4 Gb - Ex ia tb IIIC T75°C/T110°C Db IP66 | | | |
| **Certification:** | ATEX CESI 03 ATEX 333 | | | |
| | IEC Ex CES 13.0001 | All IEC Ex, ECASEx, TR CU and INMETRO certification data can be downloaded from www.cortemgroup.com | | |
| | ECASEx AVAILABLE | | | |
| | TR CU AVAILABLE | | | |
| | INMETRO DNV 15.0119 | | | |
| **Standards:** | CENELEC EN 60079-0: 2018, EN 60079-7: 2015, EN 60079-11: 2012, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE<br>IEC 60079-0: 2017, IEC 60079-7: 2015, IEC 60079-11: 2011, IEC 60079-31: 2013 | | | |
| **Ambient Temp.:** | See "ambient temperature range" table | | | |
| **Degree of protection:** | IP66 | | | |

### AMBIENT TEMPERATURE RANGE

| AMBIENT TEMPERATURE | TEMPERATURE CLASS | MAXIMUM SURFACE TEMPERATURE | MAXIMUM TERMINAL OPERATING TEMPERATURE |
|---|---|---|---|
| -40°C +40°C | T6 | T75°C | +80°C |
| -40°C +55°C | T5 | T75°C | +95°C |

### LOW AND HIGH TEMPERATURE RANGE
(accordingly with the temperature allowed by the terminals)

| AMBIENT TEMPERATURE | TEMPERATURE CLASS | MAXIMUM SURFACE TEMPERATURE | MAXIMUM TERMINAL OPERATING TEMPERATURE |
|---|---|---|---|
| -60°C +40°C | T6 | T75°C | +80°C |
| -60°C +55°C | T5 | T75°C | +95°C |
| -60°C +65°C** | T5 | T75°C | +95°C |

** For this temperature range the maximum dissipated power shall be reduced by 25% and the nominal current by 15%

### TEMPERATURE RANGE FOR SIGNALING
(max. 1 A for not Ex i circuits, max. 100 mA for 'Ex i' circuits)

| AMBIENT TEMPERATURE | TEMPERATURE CLASS | MAXIMUM SURFACE TEMPERATURE | MAXIMUM TERMINAL OPERATING TEMPERATURE |
|---|---|---|---|
| -40°C +60°C | T6 | T75°C | +80°C |

### TEMPERATURE RANGE FOR SIGNALING
(max. 10 A for not Ex i circuits, max. 100 mA for 'Ex i' circuits)

| AMBIENT TEMPERATURE | TEMPERATURE CLASS | MAXIMUM SURFACE TEMPERATURE | MAXIMUM TERMINAL OPERATING TEMPERATURE |
|---|---|---|---|
| -60°C +85°C | T4 | T110°C | +120°C |

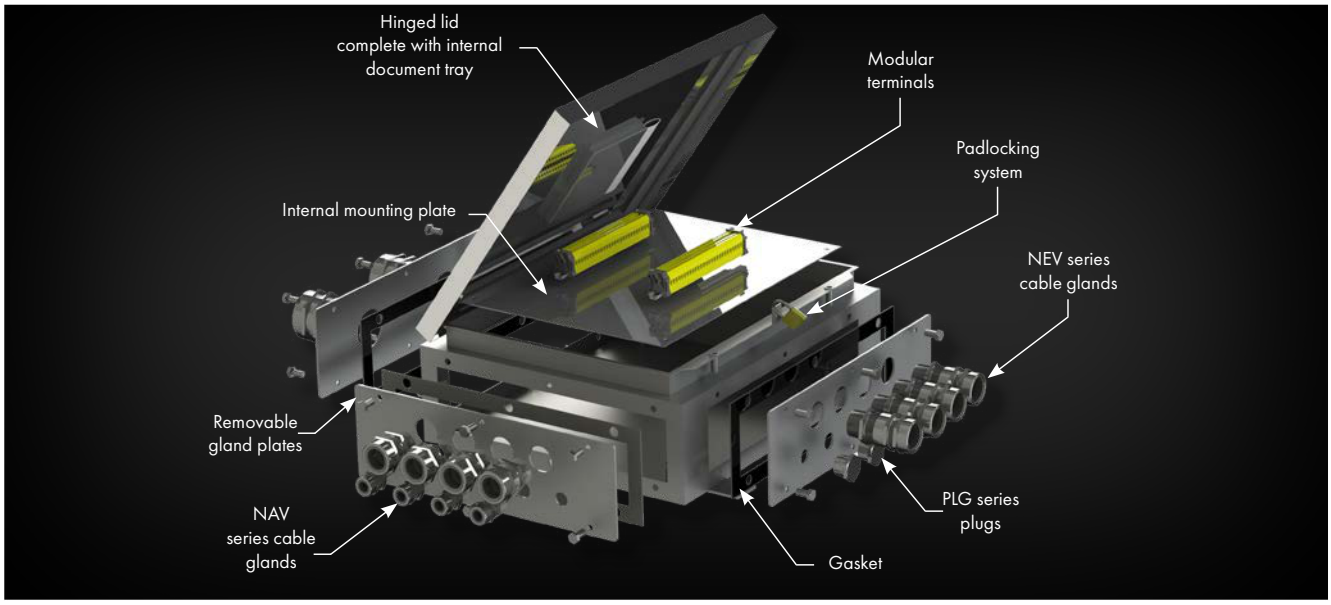
## CERTIFICATION DATA OF ENCLOSURES FOR CONTROL, MONITORING AND SIGNALLING UNITS

| | | | | |
|---|---|---|---|---|
| **Classification:** | Group II | Category 2GD | | |
| **Installation:** EN 60079.14 | zone 1 - zone 2 (Gas) | zone 21 - zone 22 (Dust) | | |
| **Marking:** | CE 0722 Ex II2GD - Ex db eb IIC T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db - IP66 | | | |
| | CE 0722 Ex II2GD - Ex eb IIC T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db - IP66<br>(When on the box is installed only ammeter or voltmeter type B-0140) | | | |
| **Certification:** | ATEX CESI 03 ATEX 115 X | | | |
| | IEC Ex CES 11.0032 X | All IEC Ex, ECASEx, TR CU and INMETRO certification data can be downloaded from www.cortemgroup.com | | |
| | ECASEx AVAILABLE | | | |
| | TR CU AVAILABLE | | | |
| | INMETRO DNV 15.0125 | | | |
| **Standards:** | CENELEC EN 60079-0: 2018, EN 60079-1: 2014, EN 60079-7: 2015, EN 60079-11: 2012, EN 60079-18: 20150 EN 60079-31: 2014, EN 60529: 1991 and EUROPEAN DIRECTIVE 2014/34/UE<br>IEC 60079-0: 2017, IEC 60079-1: 2014, IEC 60079-7: 2015, IEC 60079-11: 2011, IEC 60079-18: 2014, IEC 60079-31:2013, IEC 60529: 2001 | | | |
| **Ambient Temp.:** | -40°C +40°C | With temperature class T6 and maximum surface temperature T85°C. | | |
| | -40°C +55°C | With temperature class T5 and maximum surface temperature T100°C. | | |
| **Degree of protection:** | IP66 | | | |

## CERTIFICATION DATA OF ENCLOSURES WITH EQUIPMENT (FIELDBUS, PROXIMITOR, HEATER...)

| | | | | |
|---|---|---|---|---|
| **Classification:** | Group II | Category 2GD | | |
| **Installation:** EN 60079.14 | zone 1 - zone 2 (Gas) | zone 21 - zone 22 (Dust) | | |
| **Marking:** | CE 0722 Ex II2GD - Ex eb IIC T6/T5 Gb - Ex tb IIIC T85°C/T100°C Db - IP66 | | | |
| | CE 0722 Ex II2(1)GD - Ex eb ib mb [ia Ga] IIC T4 Gb - Ex tb [ia Da] IIIC T85°C Db IP66 | | | |
| **Certification:** | ATEX CML 16 ATEX 3163X | | | |
| | IEC Ex CML 16.0074X | All IEC Ex certification data can be downloaded from www.cortemgroup.com | | |
| **Standards:** | CENELEC EN 60079-0: 2018, EN 60079-7: 2015, EN 60079-28: 2015, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE<br>IEC 60079-0: 2017, IEC 60079-7: 2015, IEC 60079-28: 2015, IEC 60079-31:2013 | | | |
| **Ambient Temp.:** | -60°C +85°C | The temperature classes and the maximum surface temperature must be selected according to the installed components. See the certificate. | | |
| **Degree of protection:** | IP66 | | | |

## EXPLODED VIEW OF ACCESSORIZED CTB ENCLOSURE




## MECHANICAL FEATURES

| | |
|---|---|
| **Body and lid:** | AISI 316L stainless steel |
| **Hinges:** | Stainless steel AISI 316L (included on CTB series, non included on CSTB series) |
| **Impact protection rating:** | IK10 |
| **Gasket:** | Resistant to acids, hydrocarbons and high temperatures, located between body and lid. Ensures consistent protection to IP66 during use |
| **Certification label:** | Stainless steel plate riveted onto lid |
| **Removable gland plates:** | Stainless steel thickness 30/10 |
| **Bolts and screws:** | Stainless steel captive variety |
| **Earth screws:** | Brass. On inside and outside of body complete with anti-rotation brackets |
| **Mounting:** | Welded AISI 316L stainless steel feet |

## ACCESSORIES AVAILABLE ON REQUEST/ SPECIAL REQUESTS

Body and cover thickness of 3 mm (Code CTB262616**/3**) Please refer to the sales offices for availability
Possible drilling of the enclosure bottom
Internal anti-condensation coating RAL 2004 (pure orange)
External polyester coating in different colour (specify the RAL number)
Breather valve; Drain valve
Internal mounting plate: stainless steel (code B...-443)
Earth screws in stainless steel
Terminal block mounting rails (code OBO2060/S)
Padlocking system; padlock (code VIRO552)
ATEX-CERTIFIED TERMINALS: terminals must be chosen from the list of approved manufacturers: Cabur, Phoenix, ABB Entrelec, Wago, Weidmuller. When supplied as an Ex i enclosure (for low-voltage instruments), it comes with suitably identified blue terminals.
Hole options: through holes with no threading
**Only use cable glands that meet ATEX, IECEx directive requirements. Use gaskets and lock nuts on entries to ensure IP66 protection.**



Simplified system for lid fixing with key locking system Double Beard type:

(Example of order code CTB484816C)

*Installation of one key locking system up to model CTB262620*
*Installation of two key locking systems up to model CTB624520*

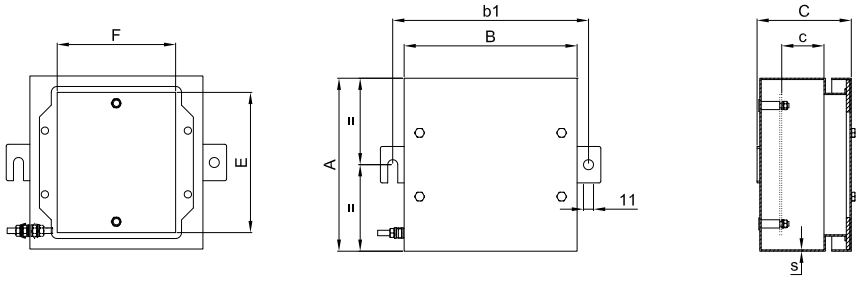
## ENCLOSURE SELECTION CHART

| Code | Outside dimensions | | | Inside dimensions | | | | Mounting | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | E | F | c | s | a1 | b1 | kg |
| CSTB121208 | 120 | 120 | 80 | 84 | 60 | 26 | 1,5 | - | 145 | |
| CSTB151509 | 150 | 150 | 90 | 114 | 90 | 36 | 1,5 | - | 175 | |
| CSTB191910 | 190 | 190 | 100 | 154 | 130 | 46 | 1,5 | - | 215 | |
| CTB221513 | 229 | 152 | 130 | 169 | 92 | 75 | 1,5 | 152 | 208 | |
| CTB262616 | 260 | 260 | 160 | 224 | 200 | 100 | 1,5 | 170 | 316 | |
| CTB262620 | 260 | 260 | 205 | 224 | 200 | 145 | 1,5 | 170 | 316 | |
| CTB303016 | 306 | 306 | 160 | 270 | 246 | 100 | 1,5 | 203 | 361 | |
| CTB303020 | 306 | 306 | 205 | 270 | 246 | 145 | 1,5 | 203 | 361 | |
| CTB382616 | 380 | 260 | 160 | 344 | 200 | 100 | 1,5 | 250 | 316 | |
| CTB382620 | 380 | 260 | 205 | 344 | 200 | 145 | 1,5 | 250 | 316 | |
| CTB453816 | 450 | 380 | 160 | 414 | 322 | 100 | 1,5 | 305 | 437 | |
| CTB453820 | 450 | 380 | 205 | 414 | 322 | 145 | 1,5 | 305 | 437 | |
| CTB484816 | 480 | 480 | 160 | 444 | 420 | 100 | 1,5 | 327 | 535 | |
| CTB484820 | 480 | 480 | 205 | 444 | 420 | 145 | 1,5 | 327 | 535 | |
| CTB503516 | 500 | 350 | 160 | 464 | 290 | 100 | 1,5 | 350 | 406 | |
| CTB503520 | 500 | 350 | 205 | 464 | 290 | 145 | 1,5 | 350 | 406 | |
| CTB624516 | 620 | 450 | 160 | 584 | 390 | 100 | 2 | 450 | 506 | |
| CTB624520 | 620 | 450 | 205 | 584 | 390 | 145 | 2 | 450 | 506 | |
| CTB745520 | 740 | 550 | 205 | 704 | 490 | 145 | 2 | 540 | 606 | |
| CTB765020 | 762 | 508 | 205 | 726 | 448 | 145 | 2 | 508 | 564 | |
| CTB808030 | 800 | 800 | 305 | 725 | 725 | 245 | 2 | 510 | 855 | |
| CTB866420 | 860 | 640 | 205 | 824 | 580 | 145 | 2 | 696 | 570 | |
| CTB916120 | 914 | 610 | 205 | 878 | 550 | 145 | 2 | 666 | 559 | |
| CTB916130 | 914 | 610 | 305 | 878 | 550 | 245 | 2 | 666 | 559 | |
| CTB987420 | 980 | 740 | 205 | 944 | 680 | 145 | 2 | 700 | 769 | |

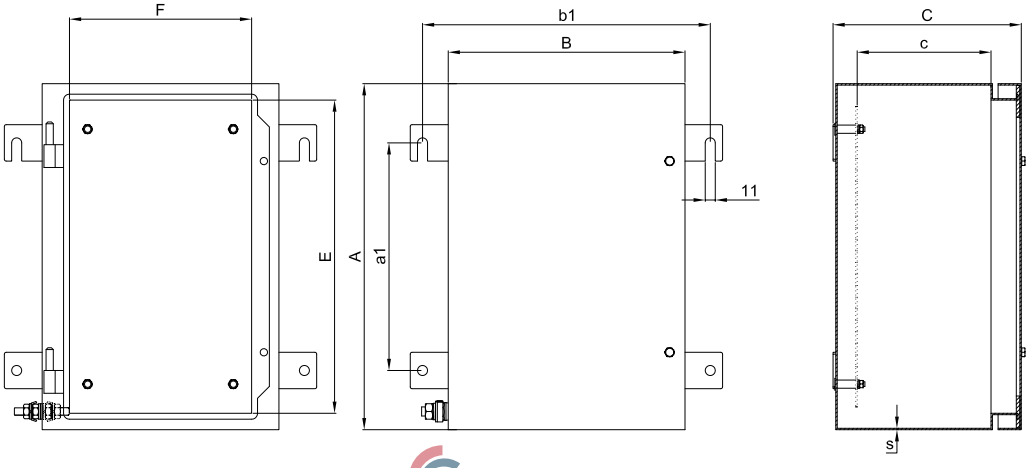
## DIMENSIONAL DRAWING

Dimensions in mm

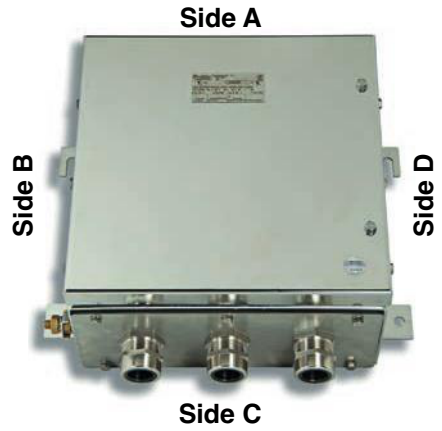
**Series CSTB**



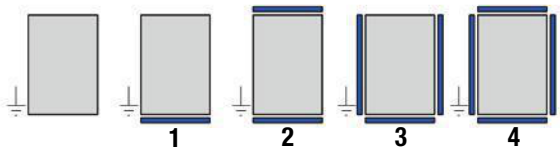

**Series CTB**



## REMOVABLE GLAND PLATES ON CTB SERIES STAINLESS STEEL BOXES




**Removable gland plate position coding**



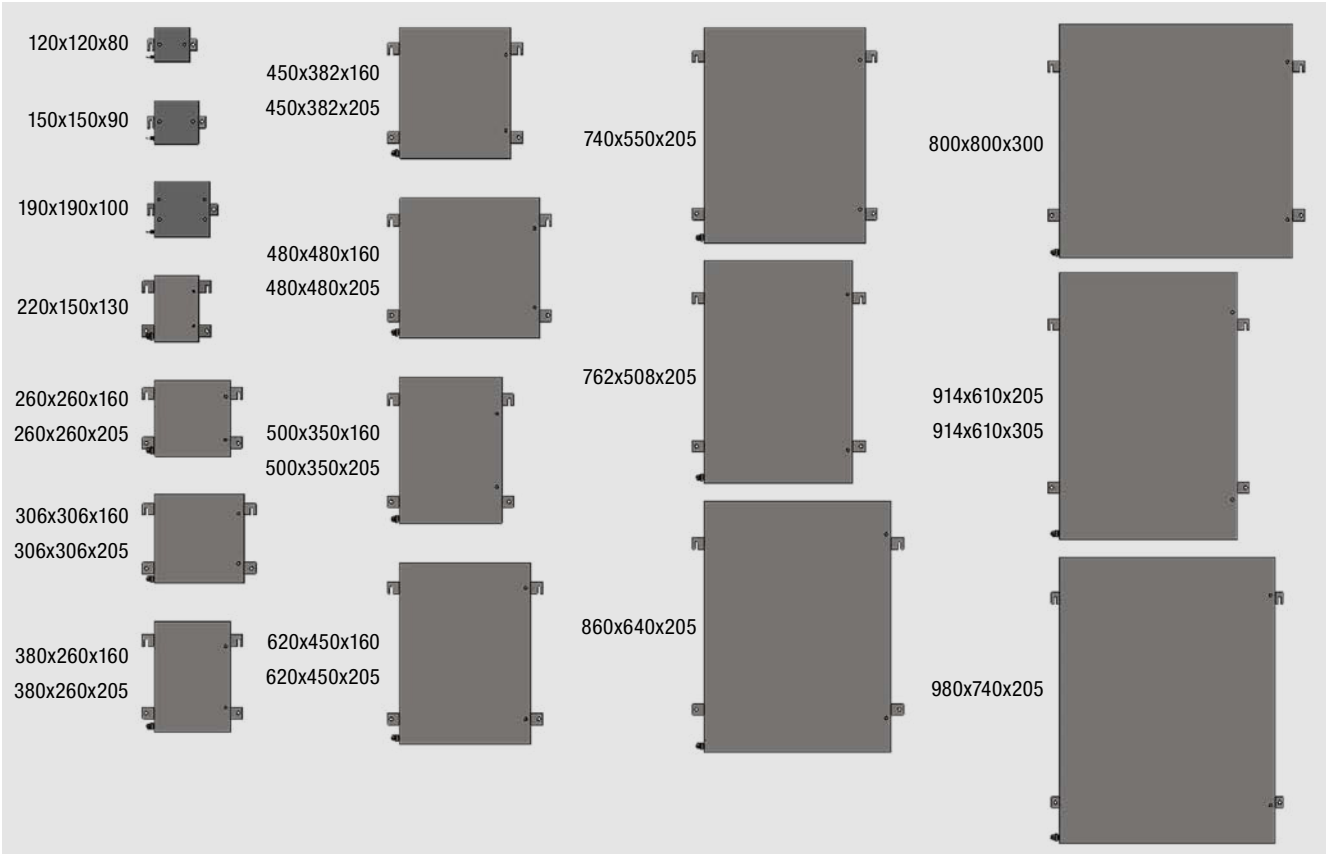

### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

| Code | Removable gland plate dimensions | | | |
|---|---|---|---|---|
| | Side A | Side B | Side C | Side D |
| CTB221513S.. | 144x94 | 144x94 | 144x94 | 144x94 |
| CTB262616S.. | 254x120 | 154x120 | 254x120 | 154x120 |
| CTB262620S.. | 254x164 | 154x164 | 254x164 | 154x164 |
| CTB303016S.. | 298x120 | 254x120 | 298x120 | 254x120 |
| CTB303020S.. | 298x164 | 254x164 | 298x164 | 254x164 |
| CTB382616S.. | 254x120 | 298x120 | 254x120 | 298x120 |
| CTB382620S.. | 254x164 | 298x164 | 254x164 | 298x164 |
| CTB453816S.. | 374x120 | 374x120 | 374x120 | 374x120 |
| CTB453820S.. | 374x164 | 374x164 | 374x164 | 374x164 |
| CTB484816S.. | 474x120 | 444x120 | 474x120 | 444x120 |
| CTB484820S.. | 474x164 | 444x164 | 474x164 | 444x164 |
| CTB503516S.. | 344x120 | 444x120 | 344x120 | 444x120 |
| CTB503520S.. | 344x164 | 444x164 | 344x164 | 444x164 |
| CTB624516S.. | 444x120 | 544x120 | 444x120 | 544x120 |
| CTB624520S.. | 444x164 | 544x164 | 444x164 | 544x164 |
| CTB745520S.. | 544x164 | 634x164 | 544x164 | 634x164 |
| CTB765020S.. | 504x164 | 594x124 | 504x164 | 594x124 |
| CTB808030S.. | 634x214 | 634x214 | 634x214 | 634x214 |
| CTB866420S.. | 634x164 | 740x164 | 634x164 | 740x164 |
| CTB916120S.. | 604x164 | 740x164 | 604x164 | 740x164 |
| CTB916130S.. | 604x264 | 740x264 | 604x264 | 740x264 |
| CTB987420S.. | 634x164 | 444x164 (x2) | 634x164 | 444x164 (x2) |

## OVERVIEW OF SIZES



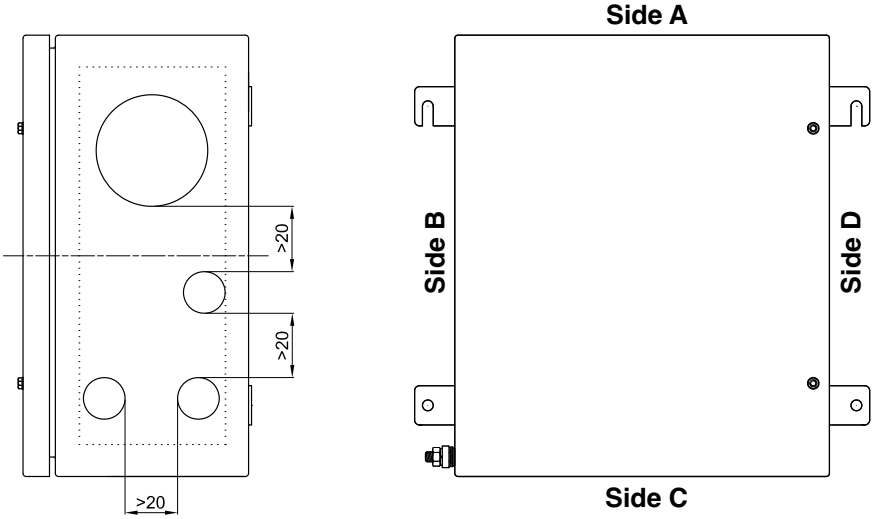
THREAD COMPARISON CHART

| D<br>Thread diameter | 01 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| ISO 261/965 | 16x1.5 | 20x1.5 | 25x1.5 | 32x1.5 | 40x1.5 | 50x1.5 | 63x1.5 | 75x1.5 | 90x1.5 |
| Through hole | Ø17 | Ø20.5 | Ø25.5 | Ø32.5 | Ø40.5 | Ø50.5 | Ø63.5 | Ø75.5 | Ø90.5 |

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

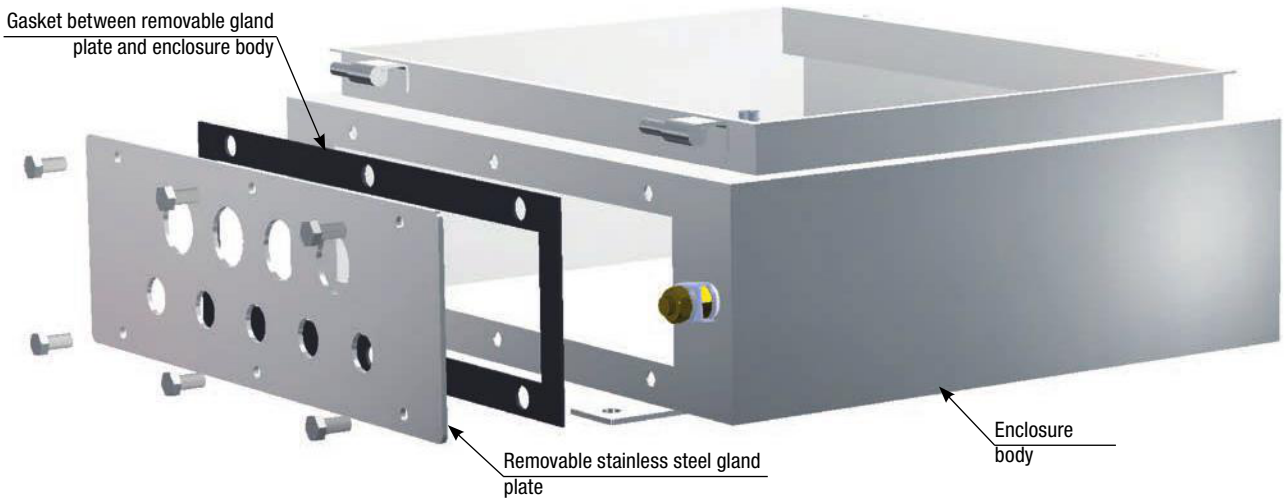


| TYPE OF ENCLOSURE | HOLE DRILLING IN BODY | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sides A and C | | | | | | | | | | Sides B and D | | | | | | | | |
| | Drilling area mm | MAXIMUM QUANTITY PER HOLE TYPE | | | | | | | | | Drilling area mm | MAXIMUM QUANTITY PER HOLE TYPE | | | | | | | |
| | | 01 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 01 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| CSTB121208 | 70x30 | 2 | 2 | 2 | - | - | - | - | - | - | 100x30 | 3 | 3 | 3 | - | - | - | - | - | - |
| CSTB151509 | 115x40 | 3 | 3 | 2 | 2 | - | - | - | - | - | 140x40 | 4 | 4 | 3 | 2 | - | - | - | - | - |
| CSTB191910 | 155x50 | 4 | 4 | 3 | 2 | 2 | - | - | - | - | 180x50 | 4 | 4 | 4 | 3 | 3 | - | - | - | - |
| CTB221513 | 105x55 | 5 | 5 | 2 | 2 | 1 | - | - | - | - | 165x55 | 8 | 8 | 3 | 3 | 3 | - | - | - | - |
| CTB262616 | 195x80 | 10 | 10 | 7 | 4 | 3 | 3 | 2 | - | - | 210x80 | 10 | 10 | 8 | 4 | 3 | 3 | 2 | - | - |
| CTB262620 | 215x125 | 15 | 15 | 14 | 8 | 6 | 3 | 2 | 2 | 1 | 195x125 | 15 | 15 | 12 | 6 | 6 | 3 | 2 | 2 | 1 |
| CTB303016 | 260x80 | 12 | 12 | 10 | 9 | 8 | 3 | 2 | 2 | - | 245x80 | 12 | 12 | 10 | 9 | 8 | 3 | 2 | 2 | - |
| CTB303020 | 260x125 | 18 | 18 | 17 | 10 | 8 | 6 | 3 | 2 | 2 | 245x125 | 18 | 18 | 15 | 10 | 8 | 6 | 3 | 2 | 2 |
| CTB382616 | 215x80 | 10 | 10 | 10 | 7 | 3 | 3 | 2 | 2 | - | 315x80 | 16 | 16 | 14 | 11 | 5 | 4 | 3 | 3 | - |
| CTB382620 | 215x125 | 15 | 15 | 12 | 8 | 6 | 6 | 2 | 2 | 1 | 315x125 | 24 | 24 | 21 | 12 | 10 | 8 | 3 | 3 | 2 |
| CTB453816 | 335x80 | 16 | 16 | 14 | 6 | 5 | 4 | 3 | 2 | - | 385x80 | 20 | 20 | 16 | 7 | 6 | 5 | 4 | 3 | - |
| CTB453820 | 335x125 | 24 | 24 | 21 | 12 | 10 | 8 | 3 | 3 | 2 | 335x125 | 30 | 30 | 24 | 14 | 12 | 10 | 4 | 3 | 3 |
| CTB484816 | 435x80 | 22 | 22 | 18 | 8 | 7 | 6 | 4 | 3 | - | 405x80 | 20 | 20 | 18 | 8 | 6 | 5 | 4 | 3 | - |
| CTB484820 | 435x125 | 32 | 32 | 26 | 16 | 13 | 11 | 4 | 3 | 3 | 405x125 | 30 | 30 | 26 | 14 | 12 | 10 | 4 | 3 | 3 |
| CTB503516 | 305x80 | 14 | 14 | 12 | 5 | 4 | 4 | 3 | 2 | - | 440x80 | 22 | 22 | 19 | 8 | 7 | 6 | 4 | 4 | - |
| CTB503520 | 305x125 | 21 | 21 | 18 | 12 | 10 | 7 | 3 | 2 | 2 | 440x125 | 33 | 33 | 27 | 16 | 14 | 11 | 4 | 4 | 3 |
| CTB624516 | 405x80 | 20 | 20 | 18 | 7 | 6 | 5 | 4 | 3 | - | 555x80 | 28 | 28 | 24 | 10 | 9 | 7 | 6 | 5 | - |
| CTB624520 | 405x125 | 30 | 30 | 26 | 14 | 12 | 10 | 4 | 3 | 2 | 550x125 | 39 | 39 | 36 | 20 | 18 | 15 | 6 | 5 | 3 |
| CTB745520 | 505x125 | 36 | 36 | 32 | 16 | 16 | 13 | 5 | 4 | 3 | 670x125 | 50 | 50 | 42 | 24 | 21 | 17 | 7 | 6 | 4 |
| CTB765020 | 465x125 | 33 | 33 | 29 | 18 | 14 | 11 | 5 | 4 | 3 | 690x125 | 50 | 50 | 44 | 26 | 22 | 18 | 7 | 6 | 4 |
| CTB866420 | 595x125 | 44 | 44 | 38 | 22 | 18 | 15 | 6 | 5 | 4 | 780x125 | 57 | 57 | 51 | 28 | 24 | 20 | 8 | 6 | 5 |
| CTB916120 | 565x125 | 41 | 41 | 35 | 20 | 18 | 14 | 6 | 5 | 3 | 830x125 | 60 | 60 | 53 | 30 | 26 | 22 | 9 | 7 | 5 |
| CTB916130 | 565X224 | 65 | 65 | 60 | 40 | 27 | 21 | 12 | 9 | 3 | 833x228 | 80 | 80 | 75 | 48 | 33 | 27 | 14 | 12 | 5 |
| CTB987420 | 700x125 | 50 | 50 | 44 | 26 | 22 | 18 | 7 | 6 | 4 | 840x125 | 63 | 63 | 59 | 34 | 28 | 24 | 9 | 8 | 6 |
| CTB808030 | 755x225 | 72 | 72 | 62 | 39 | 33 | 27 | 14 | 12 | 4 | 730x225 | 72 | 72 | 60 | 39 | 33 | 27 | 14 | 12 | 4 |



# CTB... series Removable gland plate drilling data

Example of enclosure body featuring removable gland plate on just one side.




| TYPE OF ENCLOSURE | HOLE DRILLING IN REMOVABLE GLAND PLATES | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sides A and C | | | | | | | | | Sides B and D | | | | | | | |
| | Drilling area mm | MAXIMUM QUANTITY PER HOLE TYPE | | | | | | | | Drilling area mm | MAXIMUM QUANTITY PER HOLE TYPE | | | | | | |
| | | 01 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 01 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| CTB221513 | 98x54 | 3 | 3 | 2 | 1 | 1 | - | - | - | 104x54 | 3 | 3 | 2 | 1 | 1 | - | - | - |
| CTB262616 | 214x80 | 10 | 10 | 8 | 4 | 3 | 2 | - | - | 114x80 | 6 | 6 | 3 | 2 | 1 | 1 | - | - |
| CTB262620 | 214x124 | 15 | 15 | 12 | 8 | 6 | 3 | - | - | 114x124 | 9 | 9 | 6 | 4 | 2 | 1 | - | - |
| CTB303016 | 258x80 | 12 | 12 | 10 | 4 | 4 | 3 | 2 | - | 214x80 | 10 | 10 | 8 | 4 | 3 | 3 | 2 | - |
| CTB303020 | 258x124 | 18 | 18 | 13 | 8 | 4 | 3 | - | - | 214x124 | 15 | 15 | 10 | 8 | 3 | 2 | - | - |
| CTB382616 | 214x80 | 10 | 10 | 8 | 4 | 3 | 3 | - | - | 258x80 | 12 | 12 | 9 | 4 | 3 | 3 | - | - |
| CTB382620 | 214x124 | 15 | 15 | 12 | 8 | 6 | 4 | - | - | 258x124 | 18 | 18 | 15 | 8 | 5 | 3 | - | - |
| CTB453816 | 334x80 | 16 | 16 | 14 | 6 | 5 | 4 | 3 | - | 334x80 | 16 | 16 | 14 | 6 | 5 | 4 | 3 | - |
| CTB453820 | 334x124 | 24 | 24 | 20 | 12 | 8 | 4 | 3 | - | 334x124 | 24 | 24 | 20 | 12 | 8 | 4 | 3 | - |
| CTB484816 | 434x80 | 22 | 22 | 18 | 7 | 5 | 5 | 4 | - | 404x80 | 20 | 18 | 14 | 6 | 5 | 4 | 3 | - |
| CTB484820 | 434x124 | 32 | 32 | 24 | 14 | 12 | 5 | 4 | - | 404x124 | 29 | 27 | 21 | 12 | 8 | 4 | 3 | - |
| CTB503516 | 304x80 | 14 | 14 | 12 | 5 | 4 | 4 | 3 | - | 404x80 | 19 | 16 | 12 | 5 | 4 | 4 | 3 | - |
| CTB503520 | 304x124 | 21 | 21 | 17 | 10 | 8 | 4 | 3 | 2 | 404x124 | 29 | 24 | 18 | 10 | 8 | 4 | 3 | 2 |
| CTB624516 | 404x80 | 19 | 19 | 16 | 7 | 6 | 5 | 4 | - | 504x80 | 24 | 22 | 16 | 7 | 6 | 5 | 4 | - |
| CTB624520 | 404x124 | 29 | 29 | 23 | 14 | 10 | 5 | 4 | 3 | 504x124 | 36 | 33 | 24 | 14 | 12 | 5 | 4 | 3 |
| CTB745520 | 504x124 | 36 | 36 | 30 | 16 | 13 | 7 | 5 | 4 | 594x124 | 42 | 42 | 30 | 18 | 14 | 7 | 5 | 4 |
| CTB765020 | 464x124 | 33 | 33 | 16 | 14 | 10 | 5 | 4 | 3 | 594x124 | 42 | 42 | 22 | 22 | 16 | 8 | 5 | 5 |
| CTB866420 | 594x124 | 44 | 44 | 36 | 20 | 16 | 8 | 6 | 5 | 700x124 | 51 | 48 | 36 | 20 | 16 | 8 | 6 | 4 |
| CTB916120 | 564x124 | 41 | 41 | 22 | 16 | 8 | 8 | 4 | 4 | 700x124 | 51 | 48 | 22 | 22 | 8 | 8 | 5 | 5 |
| CTB916130 | 564x224 | 65 | 65 | 60 | 40 | 27 | 21 | 12 | 9 | 700x224 | 80 | 80 | 75 | 48 | 33 | 27 | 14 | 12 |
| CTB987420 | 594x124 | 44 | 44 | 36 | 20 | 16 | 8 | 6 | 4 | 404x124 (x2) | 58 | 58 | 48 | 28 | 20 | 10 | 8 | 6 |



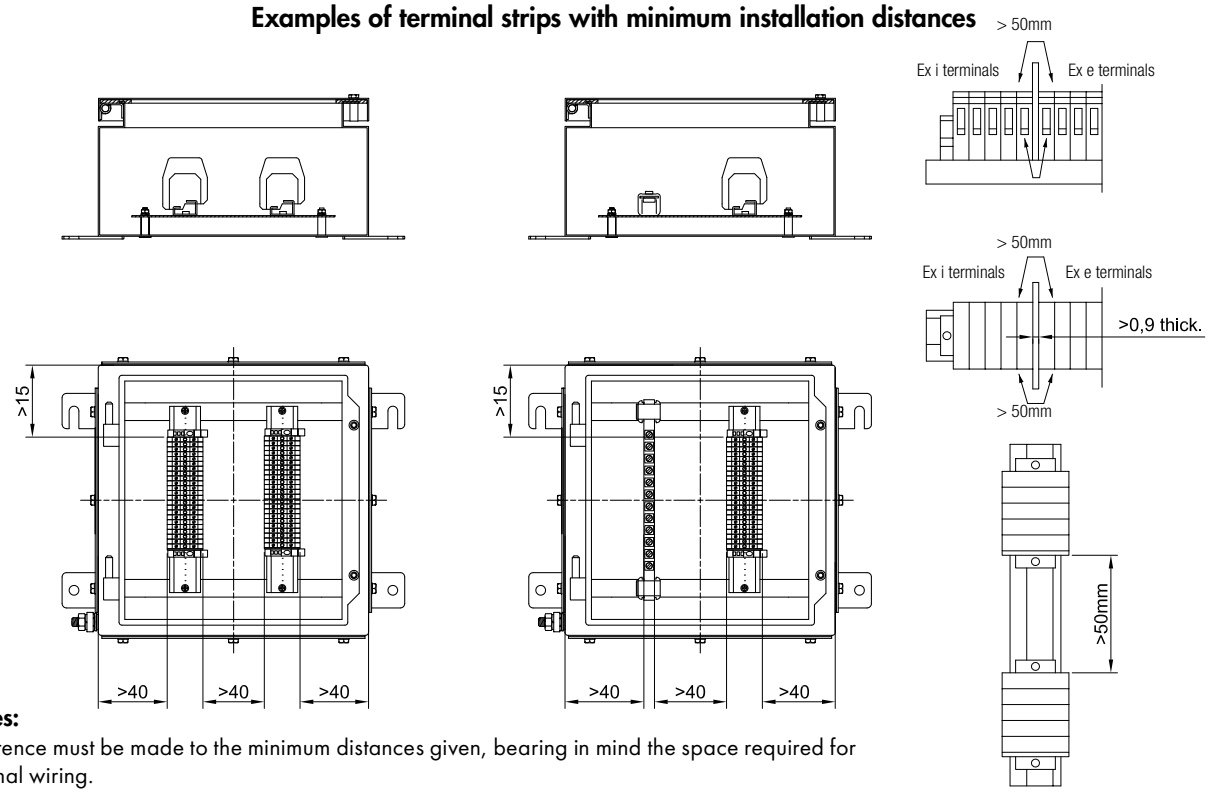
These enclosures are customized based on size, on the number of terminals or cables they are due to accommodate, or taking into account the number of cable entries and cabling requirements inside a system. Hence we can produce tailor-made solutions as long as you provide us with the appropriate parameters required at the quote request stage, such as the number of cable glands, unions or sealing fittings to be installed, so that we can determine the most suitable size of enclosure. All terminals can be fitted with your requested accessories and mounted on special rails that are fastened to the enclosure's internal mounting plates. Terminal strips can be arranged in various ways, as specified by the customer and always within the limits allowed by the certificate. The options are vertical, horizontal, in a number of rows, or on different levels using suitable spacers.

## ELECTRICAL FEATURES

| | Standard applications | Signal circuits applications | |
|---|---|---|---|
| | | T6/T75°C max. $T_{amb}$ +60°C | T4/T100°C max. $T_{amb}$ +85°C |
| **Rated voltage:** | 1000 Vac/dc | - | - |
| **Rated current:** | 312 A | 1 A for exec. **Ex eb**<br>100 mA for exec. **Ex ia** | 10 A for exec. **Ex eb**<br>100 mA for exec. **Ex ia** |
| **Rated frequency:** | 50/60 Hz | - | - |
| **Terminal section:** | 1.5 ÷ 300 $mm^2$ | - | - |

| Marking | Terminal type | Description |
|---|---|---|
| **Ex II 2GD Ex eb IIC T... Gb - Ex tb IIIC T... Db IP66** | Ex e terminals only | Enclosures containing increased safety terminals to standard EN 60079-7 |
| **Ex II 2GD Ex eb ia IIC T... Gb - Ex tb ia IIIC T... Db IP66** | Ex e and Ex i terminals | Enclosures containing increased safety terminals and intrinsic safety terminals to standards EN 60079-7 and EN 60079-11 |
| **Ex II 2GD Ex ia IIC T... Gb - Ex ia IIIC T... Db IP66** | Ex i terminals only | Enclosures containing intrinsic safety terminals to standard EN 60079-11; enclosures are still category 2 |

## Examples of terminal strips with minimum installation distances




**Notes:**

Reference must be made to the minimum distances given, bearing in mind the space required for internal wiring.

Only ATEX-certified terminals are allowed inside the enclosures.

Ex i rated terminals must be suitably labelled or coloured differently so they are clearly identifiable.

Ex i cable entries must be suitably identified with either labelling or blue markings on cable glands or the enclosure's sides.

| TYPE OF ENCLOSURE | MAXIMUM NUMBER OF TERMINALS HOUSED | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TERMINAL CROSS-SECTIONAL AREA | | | | | | | | | | | | | | | |
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| CSTB121208 | 8 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CSTB151509 | 16 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CSTB191910 | 28 | 19 | 16 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| CTB221513 | 27 | 19 | 15 | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| CTB262616 | 2x36 | 2x25 | 2x21 | 2x16 | 2x12 | 2x10 | 7 | - | - | - | - | - | - | - | - | - |
| CTB262620 | 2x36 | 2x25 | 2x21 | 2x16 | 2x12 | 2x10 | 7 | - | - | - | - | - | - | - | - | - |
| CTB303016 | 2x54 | 2x37 | 2x31 | 2x23 | 2x18 | 2x15 | 11 | - | - | - | - | - | - | - | - | - |
| CTB303020 | 2x54 | 2x37 | 2x31 | 2x23 | 2x18 | 2x15 | 11 | 11 | 10 | 9 | - | - | - | - | - | - |
| CTB382616 | 2x71 | 2x49 | 2x41 | 2x31 | 2x24 | 2x20 | 15 | 15 | 13 | 11 | - | - | - | - | - | - |
| CTB382620 | 2x71 | 2x49 | 2x41 | 2x31 | 2x24 | 2x20 | 15 | 15 | 13 | 11 | - | - | - | - | - | - |
| CTB453816 | 2x94 | 2x65 | 2x54 | 2x41 | 2x32 | 2x27 | 2x20 | 2x20 | 2x17 | 2x15 | - | - | - | - | - | - |
| CTB453820 | 2x94 | 2x65 | 2x54 | 2x41 | 2x32 | 2x27 | 2x20 | 2x20 | 2x17 | 2x15 | 11 | 10 | 10 | 8 | 8 | 6 |
| CTB484816 | 3x99 | 3x69 | 3x58 | 3x43 | 2x34 | 2x28 | 2x21 | 2x21 | 2x18 | 2x16 | - | - | - | - | - | - |
| CTB484820 | 3x99 | 3x69 | 3x58 | 3x43 | 2x34 | 2x28 | 2x21 | 2x21 | 2x18 | 2x16 | 12 | 10 | 10 | 9 | 9 | 6 |
| CTB503516 | 2x105 | 2x73 | 2x61 | 2x46 | 2x36 | 2x30 | 2x22 | 2x22 | 2x19 | 2x17 | - | - | - | - | - | - |
| CTB503520 | 2x105 | 2x73 | 2x61 | 2x46 | 2x36 | 2x30 | 2x22 | 2x22 | 2x19 | 2x17 | 13 | 11 | 11 | 10 | 10 | 6 |
| CTB624516 | 3x139 | 3x97 | 3x81 | 3x61 | 2x48 | 2x40 | 2x30 | 2x30 | 2x26 | 2x23 | - | - | - | - | - | - |
| CTB624520 | 3x139 | 3x97 | 3x81 | 3x61 | 2x48 | 2x40 | 2x30 | 2x30 | 2x26 | 2x23 | 17 | 15 | 15 | 13 | 13 | 9 |
| CTB745520 | 4x174 | 4x121 | 4x101 | 4x76 | 3x60 | 3x50 | 3x37 | 3x37 | 3x33 | 3x29 | 22 | 18 | 18 | 16 | 16 | 11 |
| CTB765020 | 4x182 | 4x127 | 4x106 | 4x79 | 3x63 | 3x53 | 3x39 | 3x39 | 3x34 | 3x30 | 23 | 19 | 19 | 17 | 17 | 12 |
| CTB866420 | 5x208 | 5x145 | 5x121 | 5x91 | 5x72 | 5x60 | 4x45 | 4x45 | 3x40 | 3x35 | 26 | 22 | 22 | 20 | 20 | 13 |
| CTB916120 | 5x225 | 5x157 | 5x131 | 5x98 | 5x78 | 5x65 | 4x49 | 4x49 | 3x43 | 3x38 | 29 | 24 | 24 | 21 | 21 | 14 |
| CTB916130 | 5x225 | 5x157 | 5x131 | 5x98 | 5x78 | 5x65 | 4x49 | 4x49 | 3x43 | 3x38 | 29 | 24 | 24 | 21 | 21 | 14 |
| CTB987420 | 5x242 | 5x169 | 5x141 | 5x106 | 5x84 | 5x70 | 4x52 | 4x52 | 3x46 | 3x41 | 31 | 26 | 26 | 23 | 23 | 16 |

Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

The permissible maximum power dissipation, in order to retain a T6 temperature class with an ambient temperature up to +40°C or T5 class with an ambient temperature of 55°C, is not to exceed the values given in the tables below.
For an ambient temperature of +60°C or +65°C, maximum power dissipation must be reduced by 25%, and rated current reduced by 15%.

The maximum current values for terminal strips used for low-voltage circuits (signalling units) with a T6 temperature class and maximum ambient temperature of +60°C or T4 and maximum ambient temperature +65°C and +85°C are as follows:
+60°C T6 -> max 1A Ex e, max 100mA Ex ia
+85°C T4 -> max 10A Ex e, max 100mA Ex ia
The values given in the tables on the coming pages refer to the maximum number of conductors allowed for a conductor with a given cross-sectional area and a given maximum current. All incoming wires and active internal links (made by wires) count as wires. Earth connections (i.e. passive connections) do not count.
When DIN/Omega rails are installed on the internal mounting plate (instead of using the relevant mounting plate fastening holes), the number of terminals may be slightly less than the number given in the tables.
Other types of terminals can be used up to the space limit of the box. Whatever the case, all terminals used shall be ATEX and/or IEC Ex certified. Size 35mm$^2$ terminals can be used for conductors with a cross-sectional area of 25mm$^2$.
The maximum number of terminals and maximum number of rows given in the tables is an indicative value: you must take into account the cable entries on the sides of the boxes. The internal overall dimensions of cable glands/lock nuts and the overall dimensions of conductors must be taken into consideration to allow for wiring.
In some cases, it may be necessary to reduce the number of terminals or the number of rows.

Example of how to calculate the maximum number of conductors.
Referring to table CTB262620: 6 conductors with 6mm$^2$ cross-section with 26A continuous current is the limit of this box. Consequently, box CTB262620 is suitable for containing 3 x 6mm$^2$ terminals (2 conductors for each terminal) with a max. current of 26A.
There is space for 32 x 6mm$^2$ terminals in the box. The remaining 29 terminals (32-3) can be added and used for low-current circuits indicated in the "yellow-coloured" area of the table (in this case max. 8-10A).

Combined mounting for electrical circuits with different sized cables is possible provided the values given are used proportionally. For example:

| Nominal X-sect. area (mm$^2$) | Current (A) | Quantity | Capacity |
|---|---|---|---|
| 2,5 | 8 | 16 (di 46) | 34,8% |
| 4 | 11 | 12 (di 36) | 33,3% |
| 10 | 26 | 4 (di 13) | 30,8% |
| | | Total | 98,9% <100% |

## Table showing maximum power dissipation and current for ambient temperature +40°C and +55°C

| Enclosure | P [W] | Maximum current [A] per conductor cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| CSTB121208 | 5.3 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CSTB151509 | 5.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CSTB191910 | 6.2 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CTB221513 | 6.2 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CTB262616 | 10.6 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CTB262620 | 11.2 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CTB303016 | 11.2 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | - | - | - | - | - | - | - | - | - |
| CTB303020 | 12.2 | 11 | 15 | 21 | 26 | 37 | 49 | 49 | 67 | 80 | 122 | 122 | 147 | 147 | 147 | 147 | 147 |
| CTB382616 | 12.2 | 11 | 15 | 21 | 26 | 37 | 49 | 49 | 67 | 80 | 122 | 122 | 147 | 147 | 147 | 147 | 147 |
| CTB382620 | 12.2 | 11 | 15 | 21 | 26 | 37 | 49 | 49 | 67 | 80 | 122 | 122 | 147 | 147 | 147 | 147 | 147 |
| CTB453816 | 29.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB453820 | 29.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB484816 | 29.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB484820 | 29.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB503516 | 29.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB503520 | 29.5 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB624516 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB624520 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB745520 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB765020 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB866420 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB916120 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB916130 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |
| CTB987420 | 36 | 11 | 15 | 21 | 26 | 37 | 49 | 67 | 80 | 98 | 122 | 147 | 175 | 196 | 227 | 270 | 312 |

## Table showing maximum power dissipation and current for ambient temperature +60°C and +65°C

| Enclosure | P [W] | Maximum current [A] per conductor cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| CSTB121208 | 3.9 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CSTB151509 | 4.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CSTB191910 | 4.6 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CTB221513 | 4.6 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CTB262616 | 7.9 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CTB262620 | 8.4 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CTB303016 | 8.4 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | - | - | - | - | - | - | - | - | - |
| CTB303020 | 9.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 103 | 125 | 125 | 125 | 125 | 125 |
| CTB382616 | 9.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 103 | 125 | 125 | 125 | 125 | 125 |
| CTB382620 | 9.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 103 | 125 | 125 | 125 | 125 | 125 |
| CTB453816 | 22.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB453820 | 22.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB484816 | 22.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB484820 | 22.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB503516 | 22.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB503520 | 22.1 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB624516 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB624520 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB745520 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB765020 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB866420 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB916120 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB916130 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |
| CTB987420 | 27 | 9 | 12 | 17 | 22 | 31 | 41 | 57 | 68 | 83 | 103 | 125 | 148 | 166 | 193 | 229 | 265 |

## Instructions for determining which enclosure is best suited based on the planned number of conductors and terminals.

: In this section of the table that has not been filled in, once you have followed the instructions and complied with the values given for the enclosure's internal wiring, you can add as many terminals as you want up to the space limit of the box.

: Any wiring that falls within this section of the table that has not been filled in is not covered by the certificate.

"***C. No.***" row: the values given refer to the maximum number of CABUR terminals physically allowed inside the relevant enclosure. These values are expressed as the product of the rows multiplied by the number of terminals.
"***W. No.***" row: the same as above, but this time referring to Weidmuller terminals.
The terminal brands are mentioned just to give an idea of the quantity of terminals that can be housed inside the enclosure.
The other values given in the cells along the table's diagonal define the maximum number of conductors allowed, based on their cross-sectional area and maximum current.

## Tables showing maximum number of conductors

$$\left(\text{N° of terminals} = \frac{\text{n° of conductors}}{2}\right)$$

### CSTB121208

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 15 | 25 | | | | | |
| 10 | 9 | 16 | 22 | | | | |
| 11 | 8 | 13 | 18 | 24 | | | |
| 15 | | 7 | 10 | 13 | | | |
| 21 | | | 5 | 7 | 9 | 12 | |
| 26 | | | | 4 | 6 | 8 | 10 |
| 37 | | | | | 3 | 4 | 5 |
| 49 | | | | | | 2 | 3 |
| 67 | | | | | | | 2 |
| *C. No.* | | | | | | | |
| *W. No.* | 8 | 5 | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 5.3W

### CSTB151509

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 14 | 24 | | | | | |
| 10 | 9 | 15 | 22 | | | | |
| 11 | 7 | 12 | 18 | 24 | | | |
| 15 | | 6 | 10 | 13 | 18 | 25 | |
| 21 | | | 5 | 7 | 9 | 13 | 16 |
| 26 | | | | 4 | 6 | 8 | 11 |
| 37 | | | | | 3 | 4 | 5 |
| 49 | | | | | | 2 | 3 |
| 67 | | | | | | | 2 |
| *C. No.* | | | | | | | |
| *W. No.* | 16 | 11 | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 5.5W

### CSTB191910

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 16 | 27 | 38 | | | | |
| 10 | 10 | 17 | 24 | 33 | | | |
| 11 | 8 | 14 | 20 | 27 | 39 | | |
| 15 | | 7 | 11 | 14 | 21 | 28 | |
| 21 | | | 6 | 7 | 11 | 14 | 19 |
| 26 | | | | 5 | 7 | 9 | 12 |
| 37 | | | | | 3 | 5 | 6 |
| 49 | | | | | | 3 | 3 |
| 67 | | | | | | | 2 |
| *C. No.* | | 17 | 14 | 12 | | | |
| *W. No.* | 28 | 19 | 16 | 12 | | | |

Maximum power dissipation with T6 temperature class must not exceed 6.2W

### CTB221513

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 16 | 27 | 38 | | | | |
| 10 | 10 | 17 | 24 | 33 | | | |
| 11 | 8 | 14 | 20 | 27 | 39 | | |
| 15 | | 7 | 11 | 14 | 21 | 28 | |
| 21 | | | 6 | 7 | 11 | 14 | 19 |
| 26 | | | | 5 | 7 | 9 | 12 |
| 37 | | | | | 3 | 5 | 6 |
| 49 | | | | | | 3 | 3 |
| 67 | | | | | | | 2 |
| *C. No.* | | 17 | 14 | 11 | | | |
| *W. No.* | 27 | 19 | 15 | 11 | | | |

Maximum power dissipation with T6 temperature class must not exceed 6.2W

### CTB262616

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 20 | 33 | 49 | 68 | 103 | | |
| 10 | 13 | 21 | 32 | 44 | 66 | | |
| 11 | 11 | 18 | 26 | 36 | 54 | 77 | 107 |
| 15 | | 9 | 14 | 19 | 29 | 41 | 57 |
| 21 | | | 7 | 10 | 15 | 21 | 29 |
| 26 | | | | 6 | 10 | 15 | 19 |
| 37 | | | | | 5 | 7 | 9 |
| 49 | | | | | | 4 | 5 |
| 67 | | | | | | | 3 |
| *C. No.* | | 2x23 | 2x19 | 2x16 | 2x12 | 2x10 | 7 |
| *W. No.* | 2x36 | 2x25 | 2x21 | 2x16 | 2x12 | 2x10 | 7 |

Maximum power dissipation with T6 temperature class must not exceed 10.6W

### CTB262620

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 20 | 33 | 49 | 68 | 103 | | |
| 10 | 13 | 21 | 32 | 44 | 66 | | |
| 11 | 11 | 18 | 26 | 36 | 54 | 77 | 107 |
| 15 | | 9 | 14 | 19 | 29 | 41 | 57 |
| 21 | | | 7 | 10 | 15 | 21 | 29 |
| 26 | | | | 6 | 10 | 14 | 19 |
| 37 | | | | | 5 | 7 | 9 |
| 49 | | | | | | 4 | 5 |
| 67 | | | | | | | 3 |
| *C. No.* | | 2x23 | 2x19 | 2x16 | 2x12 | 2x10 | 7 |
| *W. No.* | 2x36 | 2x25 | 2x21 | 2x16 | 2x12 | 2x10 | 7 |

Maximum power dissipation with T6 temperature class must not exceed 11.2W

### CTB303016

| Current (A) | Cross-sectional area in mm² | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 |
| 1 | | | | | | | |
| 8 | 20 | 33 | 49 | 68 | 103 | | |
| 10 | 13 | 21 | 32 | 44 | 66 | | |
| 11 | 11 | 18 | 26 | 36 | 54 | 77 | 107 |
| 15 | | 9 | 14 | 19 | 29 | 41 | 57 |
| 21 | | | 7 | 10 | 15 | 21 | 29 |
| 26 | | | | 6 | 10 | 14 | 19 |
| 37 | | | | | 5 | 7 | 9 |
| 49 | | | | | | 4 | 5 |
| 67 | | | | | | | 3 |
| *C. No.* | | 2x34 | 2x28 | 2x23 | 2x18 | 2x15 | 11 |
| *W. No.* | 2x54 | 2x37 | 2x31 | 2x23 | 2x18 | 2x15 | 11 |

Maximum power dissipation with T6 temperature class must not exceed 11.2W

## Tables showing maximum number of conductors

### CTB303020

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 21 | 34 | 51 | 71 | 107 | 153 | | | | | | | | | | |
| 10 | 13 | 22 | 33 | 45 | 69 | 98 | 136 | | | | | | | | | |
| 11 | 11 | 18 | 27 | 38 | 57 | 81 | 113 | 141 | | | | | | | | |
| 15 | | 9 | 15 | 20 | 31 | 43 | 61 | 76 | 92 | | | | | | | |
| 21 | | | 7 | 10 | 16 | 22 | 31 | 39 | 47 | 59 | | | | | | |
| 26 | | | | 7 | 10 | 14 | 20 | 25 | 31 | 38 | 45 | | | | | |
| 37 | | | | | 5 | 7 | 10 | 12 | 15 | 19 | 22 | 25 | 27 | | | |
| 49 | | | | | | 4 | 6 | 7 | 9 | 11 | 13 | 14 | 15 | 16 | 17 | |
| 67 | | | | | | | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 9 | 5 |
| 80 | | | | | | | | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 6 | 4 |
| 98 | | | | | | | | | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 2 |
| 122 | | | | | | | | | | 2 | 2 | 2 | 2 | 3 | 3 | 2 |
| 147 | | | | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 |
| C. No. | | 2x34 | 2x28 | 2x23 | 2x18 | 2x15 | 11 | 11 | 10 | 9 | | | | | | |
| W. No. | 2x54 | 2x37 | 2x31 | 2x23 | 2x18 | 2x15 | 11 | 11 | 10 | 9 | | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 12.2W

### CTB382616, CTB382620

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 21 | 34 | 51 | 71 | 107 | 153 | | | | | | | | | | |
| 10 | 13 | 22 | 33 | 45 | 69 | 98 | 136 | | | | | | | | | |
| 11 | 11 | 18 | 27 | 38 | 57 | 81 | 113 | 141 | | | | | | | | |
| 15 | | 9 | 15 | 20 | 31 | 43 | 61 | 76 | 92 | | | | | | | |
| 21 | | | 7 | 10 | 16 | 22 | 31 | 39 | 47 | 59 | | | | | | |
| 26 | | | | 7 | 10 | 14 | 20 | 25 | 31 | 38 | 45 | | | | | |
| 37 | | | | | 5 | 7 | 10 | 12 | 15 | 19 | 22 | 25 | 27 | | | |
| 49 | | | | | | 4 | 6 | 7 | 9 | 11 | 13 | 14 | 15 | 16 | 17 | |
| 67 | | | | | | | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 9 | 5 |
| 80 | | | | | | | | 3 | 3 | 4 | 5 | 5 | 6 | 6 | 6 | 4 |
| 98 | | | | | | | | | 2 | 3 | 3 | 4 | 4 | 4 | 4 | 2 |
| 122 | | | | | | | | | | 2 | 2 | 2 | 2 | 3 | 3 | 2 |
| 147 | | | | | | | | | | | 2 | 2 | 2 | 2 | 2 | 2 |
| C. No. | | 2x45 | 2x38 | 2x31 | 2x24 | 2x20 | 15 | 15 | 13 | 11 | | | | | | |
| W. No. | 2x71 | 2x49 | 2x41 | 2x31 | 2x24 | 2x20 | 15 | 15 | 13 | 11 | | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 12.2W

### CTB453816

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 39 | 65 | 98 | 139 | 215 | 316 | | | | | | | | | | |
| 10 | 25 | 41 | 63 | 89 | 138 | 202 | 291 | | | | | | | | | |
| 11 | 21 | 34 | 52 | 73 | 114 | 167 | 241 | 311 | | | | | | | | |
| 15 | | 18 | 28 | 39 | 61 | 90 | 129 | 167 | 209 | | | | | | | |
| 21 | | | 14 | 20 | 31 | 46 | 66 | 85 | 107 | 141 | | | | | | |
| 26 | | | | 13 | 20 | 30 | 43 | 56 | 70 | 92 | 115 | | | | | |
| 37 | | | | | 10 | 15 | 21 | 27 | 34 | 45 | 57 | 66 | 76 | | | |
| 49 | | | | | | 8 | 12 | 16 | 20 | 20 | 26 | 32 | 38 | 43 | 49 | |
| 67 | | | | | | | 6 | 8 | 10 | 14 | 17 | 20 | 23 | 26 | 31 | |
| 80 | | | | | | | | 6 | 7 | 10 | 12 | 14 | 16 | 19 | 22 | 16 |
| 98 | | | | | | | | | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 11 |
| 122 | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 147 | | | | | | | | | | | 4 | 4 | 5 | 5 | 6 | 7 |
| 175 | | | | | | | | | | | | 3 | 3 | 4 | 4 | 5 |
| 196 | | | | | | | | | | | | | 3 | 3 | 4 | 4 |
| 227 | | | | | | | | | | | | | | 2 | 3 | 3 |
| 270 | | | | | | | | | | | | | | | 2 | 2 |
| 312 | | | | | | | | | | | | | | | | 2 |
| C. No. | | 2x59 | 2x50 | 2x41 | 2x32 | 2x27 | 2x20 | 2x20 | 2x18 | 2x15 | | | | | | |
| W. No. | 2x94 | 2x65 | 2x54 | 2x41 | 2x32 | 2x27 | 2x20 | 2x20 | 2x17 | 2x15 | | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 29.5W

### CTB453820

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 39 | 65 | 98 | 139 | 215 | 316 | | | | | | | | | | |
| 10 | 25 | 41 | 63 | 89 | 138 | 202 | 291 | | | | | | | | | |
| 11 | 21 | 34 | 52 | 73 | 114 | 167 | 241 | 311 | | | | | | | | |
| 15 | | 18 | 28 | 39 | 61 | 90 | 129 | 167 | 209 | | | | | | | |
| 21 | | | 14 | 20 | 31 | 46 | 66 | 85 | 107 | 141 | | | | | | |
| 26 | | | | 13 | 20 | 30 | 43 | 56 | 70 | 92 | 115 | | | | | |
| 37 | | | | | 10 | 15 | 21 | 27 | 34 | 45 | 57 | 66 | 76 | | | |
| 49 | | | | | | 8 | 12 | 16 | 20 | 26 | 32 | 38 | 43 | 49 | | |
| 67 | | | | | | | 6 | 8 | 10 | 14 | 17 | 20 | 23 | 26 | 31 | |
| 80 | | | | | | | | 6 | 7 | 10 | 12 | 14 | 16 | 19 | 22 | 16 |
| 98 | | | | | | | | | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 11 |
| 122 | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 147 | | | | | | | | | | | 4 | 4 | 5 | 5 | 6 | 7 |
| 175 | | | | | | | | | | | | 3 | 3 | 4 | 4 | 5 |
| 196 | | | | | | | | | | | | | 3 | 3 | 4 | 4 |
| 227 | | | | | | | | | | | | | | 2 | 3 | 3 |
| 270 | | | | | | | | | | | | | | | 2 | 2 |
| 312 | | | | | | | | | | | | | | | | 2 |
| C. No. | | 2x59 | 2x50 | 2x41 | 2x32 | 2x27 | 2x20 | 2x20 | 2x18 | 2x15 | 10 | 7 | 7 | 6 | 6 | 6 |
| W. No. | 2x94 | 2x65 | 2x54 | 2x41 | 2x32 | 2x27 | 2x20 | 2x20 | 2x17 | 2x15 | 11 | 10 | 10 | 8 | 8 | |

Maximum power dissipation with T6 temperature class must not exceed 29.5W

## Tables showing maximum number of conductors

### CTB484816

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 39 | 65 | 98 | 139 | 215 | 316 | | | | | | | | | | |
| 10 | 25 | 41 | 63 | 89 | 138 | 202 | 291 | | | | | | | | | |
| 11 | 21 | 34 | 52 | 73 | 114 | 167 | 241 | 311 | | | | | | | | |
| 15 | | 18 | 28 | 39 | 61 | 90 | 129 | 167 | 209 | | | | | | | |
| 21 | | | 14 | 20 | 31 | 46 | 66 | 85 | 107 | 141 | | | | | | |
| 26 | | | | 13 | 20 | 30 | 43 | 56 | 70 | 92 | 115 | | | | | |
| 37 | | | | | 10 | 15 | 21 | 27 | 34 | 45 | 57 | 66 | 76 | | | |
| 49 | | | | | | 8 | 12 | 16 | 20 | 20 | 26 | 32 | 38 | 43 | 49 | |
| 67 | | | | | | | 6 | 8 | 10 | 14 | 17 | 20 | 23 | 26 | 31 | |
| 80 | | | | | | | | 6 | 7 | 10 | 12 | 14 | 16 | 19 | 22 | 16 |
| 98 | | | | | | | | | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 11 |
| 122 | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 147 | | | | | | | | | | | 4 | 4 | 5 | 5 | 6 | 7 |
| 175 | | | | | | | | | | | | 3 | 3 | 4 | 4 | 5 |
| 196 | | | | | | | | | | | | | 3 | 3 | 4 | 4 |
| 227 | | | | | | | | | | | | | | 2 | 3 | 3 |
| 270 | | | | | | | | | | | | | | | 2 | 2 |
| 312 | | | | | | | | | | | | | | | | 2 |
| C. No. | | 3x63 | 3x53 | 3x43 | 2x34 | 2x28 | 2x21 | 2x21 | 2x19 | 2x16 | | | | | | |
| W. No. | 3x99 | 3x69 | 3x58 | 3x43 | 2x34 | 2x28 | 2x21 | 2x21 | 2x18 | 2x16 | | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 29.5W

### CTB484820

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 39 | 65 | 98 | 139 | 215 | 316 | | | | | | | | | | |
| 10 | 25 | 41 | 63 | 89 | 138 | 202 | 291 | | | | | | | | | |
| 11 | 21 | 34 | 52 | 73 | 114 | 167 | 241 | 311 | | | | | | | | |
| 15 | | 18 | 28 | 39 | 61 | 90 | 129 | 167 | 209 | | | | | | | |
| 21 | | | 14 | 20 | 31 | 46 | 66 | 85 | 107 | 141 | | | | | | |
| 26 | | | | 13 | 20 | 30 | 43 | 56 | 70 | 92 | 115 | | | | | |
| 37 | | | | | 10 | 15 | 21 | 27 | 34 | 45 | 57 | 66 | 76 | | | |
| 49 | | | | | | 8 | 12 | 16 | 20 | 26 | 32 | 38 | 43 | 49 | | |
| 67 | | | | | | | 6 | 8 | 10 | 14 | 17 | 20 | 23 | 26 | 31 | |
| 80 | | | | | | | | 6 | 7 | 10 | 12 | 14 | 16 | 19 | 22 | 16 |
| 98 | | | | | | | | | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 11 |
| 122 | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 147 | | | | | | | | | | | 4 | 4 | 5 | 5 | 6 | 7 |
| 175 | | | | | | | | | | | | 3 | 3 | 4 | 4 | 5 |
| 196 | | | | | | | | | | | | | 3 | 3 | 4 | 4 |
| 227 | | | | | | | | | | | | | | 2 | 3 | 3 |
| 270 | | | | | | | | | | | | | | | 2 | 2 |
| 312 | | | | | | | | | | | | | | | | 2 |
| C. No. | | 3x63 | 3x53 | 3x43 | 2x34 | 2x28 | 2x21 | 2x21 | 2x19 | 2x16 | 10 | 8 | 8 | 6 | 6 | 6 |
| W. No. | 3x99 | 3x69 | 3x58 | 3x43 | 2x34 | 2x28 | 2x21 | 2x21 | 2x18 | 2x16 | 12 | 10 | 10 | 9 | 9 | |

Maximum power dissipation with T6 temperature class must not exceed 29.5W

### CTB503516

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 39 | 65 | 98 | 139 | 215 | 316 | | | | | | | | | | |
| 10 | 25 | 41 | 63 | 89 | 138 | 202 | 291 | | | | | | | | | |
| 11 | 21 | 34 | 52 | 73 | 114 | 167 | 241 | 311 | | | | | | | | |
| 15 | | 18 | 28 | 39 | 61 | 90 | 129 | 167 | 209 | | | | | | | |
| 21 | | | 14 | 20 | 31 | 46 | 66 | 85 | 107 | 141 | | | | | | |
| 26 | | | | 13 | 20 | 30 | 43 | 56 | 70 | 92 | 115 | | | | | |
| 37 | | | | | 10 | 15 | 21 | 27 | 34 | 45 | 57 | 66 | 76 | | | |
| 49 | | | | | | 8 | 12 | 16 | 20 | 26 | 32 | 38 | 43 | 49 | | |
| 67 | | | | | | | 6 | 8 | 10 | 14 | 17 | 20 | 23 | 26 | 31 | |
| 80 | | | | | | | | 6 | 7 | 10 | 12 | 14 | 16 | 19 | 22 | 16 |
| 98 | | | | | | | | | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 11 |
| 122 | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 147 | | | | | | | | | | | 4 | 4 | 5 | 5 | 6 | 7 |
| 175 | | | | | | | | | | | | 3 | 3 | 4 | 4 | 5 |
| 196 | | | | | | | | | | | | | 3 | 3 | 4 | 4 |
| 227 | | | | | | | | | | | | | | 2 | 3 | 3 |
| 270 | | | | | | | | | | | | | | | 2 | 2 |
| 312 | | | | | | | | | | | | | | | | 2 |
| C. No. | | 2x67 | 2x56 | 2x46 | 2x36 | 2x30 | 2x22 | 2x22 | 2x20 | 2x17 | | | | | | |
| W. No. | 2x105 | 2x73 | 2x61 | 2x46 | 2x36 | 2x30 | 2x22 | 2x22 | 2x19 | 2x17 | | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 29.5W

### CTB503520

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 39 | 65 | 98 | 139 | 215 | 316 | | | | | | | | | | |
| 10 | 25 | 41 | 63 | 89 | 138 | 202 | 291 | | | | | | | | | |
| 11 | 21 | 34 | 52 | 73 | 114 | 167 | 241 | 311 | | | | | | | | |
| 15 | | 18 | 28 | 39 | 61 | 90 | 129 | 167 | 209 | | | | | | | |
| 21 | | | 14 | 20 | 31 | 46 | 66 | 85 | 107 | 141 | | | | | | |
| 26 | | | | 13 | 20 | 30 | 43 | 56 | 70 | 92 | 115 | | | | | |
| 37 | | | | | 10 | 15 | 21 | 27 | 34 | 45 | 57 | 66 | 67 | | | |
| 49 | | | | | | 8 | 12 | 16 | 20 | 26 | 32 | 38 | 43 | 49 | | |
| 67 | | | | | | | 6 | 8 | 10 | 14 | 17 | 20 | 23 | 26 | 31 | |
| 80 | | | | | | | | 6 | 7 | 10 | 12 | 14 | 16 | 19 | 22 | 16 |
| 98 | | | | | | | | | 5 | 6 | 8 | 9 | 11 | 12 | 14 | 11 |
| 122 | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 | 11 |
| 147 | | | | | | | | | | | 4 | 4 | 5 | 5 | 6 | 7 |
| 175 | | | | | | | | | | | | 3 | 3 | 4 | 4 | 5 |
| 196 | | | | | | | | | | | | | 3 | 3 | 4 | 4 |
| 227 | | | | | | | | | | | | | | 2 | 3 | 3 |
| 270 | | | | | | | | | | | | | | | 2 | 2 |
| 312 | | | | | | | | | | | | | | | | 2 |
| C. No. | | 2x67 | 2x56 | 2x46 | 2x36 | 2x30 | 2x22 | 2x22 | 2x20 | 2x17 | 11 | 8 | 8 | 6 | 6 | 6 |
| W. No. | 2x105 | 2x73 | 2x61 | 2x46 | 2x36 | 2x30 | 2x22 | 2x22 | 2x19 | 2x17 | 13 | 11 | 11 | 10 | 10 | |

Maximum power dissipation with T6 temperature class must not exceed 29.5W

## Tables showing maximum number of conductors

### CTB624516

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 3x88 | 3x75 | 3x61 | 2x48 | 2x40 | 2x30 | 2x30 | 2x26 | 2x23 | | | | | | |
| *W. No.* | 3x139 | 3x97 | 3x81 | 3x61 | 2x48 | 2x40 | 2x30 | 2x30 | 2x26 | 2x23 | | | | | | |

Maximum power dissipation with T6 temperature class must not exceed 36W

### CTB624520

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | | | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 3x88 | 3x75 | 3x61 | 2x48 | 2x40 | 2x30 | 2x30 | 2x26 | 2x23 | 15 | 11 | 11 | 9 | 9 | 9 |
| *W. No.* | 3x139 | 3x97 | 3x81 | 3x61 | 2x48 | 2x40 | 2x30 | 2x30 | 2x26 | 2x23 | 17 | 15 | 15 | 13 | 13 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

### CTB745520

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 4x110 | 4x93 | 4x76 | 3x60 | 3x50 | 3x37 | 3x37 | 3x33 | 3x29 | 18 | 14 | 14 | 11 | 11 | 11 |
| *W. No.* | 4x174 | 4x121 | 4x101 | 4x76 | 3x60 | 3x50 | 3x37 | 3x37 | 3x32 | 3x29 | 22 | 18 | 18 | 16 | 16 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

### CTB765020

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 4x116 | 4x98 | 4x79 | 3x63 | 3x53 | 3x39 | 3x39 | 3x35 | 3x30 | 19 | 14 | 14 | 12 | 12 | 12 |
| *W. No.* | 4x182 | 4x127 | 4x106 | 4x79 | 3x63 | 3x53 | 3x39 | 3x39 | 3x34 | 3x30 | 23 | 19 | 19 | 17 | 17 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

## Tables showing maximum number of conductors

### CTB808030

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 5x121 | 5x102 | 5x83 | 5x66 | 5x55 | 4x41 | 4x41 | 3x36 | 3x32 | 20 | 15 | 15 | 12 | 12 | 12 |
| *W. No.* | 5x191 | 5x133 | 5x111 | 5x83 | 5x66 | 5x55 | 4x41 | 4x41 | 3x35 | 3x32 | 24 | 20 | 20 | 18 | 18 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

### CTB866420

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 5x132 | 5x112 | 5x91 | 5x72 | 5x60 | 4x45 | 4x45 | 3x40 | 3x35 | 22 | 17 | 17 | 13 | 13 | 13 |
| *W. No.* | 5x208 | 5x145 | 5x121 | 5x91 | 5x72 | 5x60 | 4x45 | 4x45 | 3x39 | 3x35 | 26 | 22 | 22 | 20 | 20 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

### CTB916120, CTB916130

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 5x143 | 5x121 | 5x98 | 5x78 | 5x65 | 4x49 | 4x49 | 3x43 | 3x38 | 24 | 18 | 18 | 14 | 14 | 14 |
| *W. No.* | 5x225 | 5x157 | 5x131 | 5x98 | 5x78 | 5x65 | 4x49 | 4x49 | 3x42 | 3x38 | 29 | 24 | 24 | 21 | 21 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

### CTB987420

| Current (A) | Cross-sectional area in mm² | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| 1 | | | | | | | | | | | | | | | | |
| 8 | 41 | 69 | 105 | 150 | 235 | 348 | | | | | | | | | | |
| 10 | 26 | 44 | 67 | 96 | 151 | 223 | 325 | | | | | | | | | |
| 11 | 22 | 36 | 56 | 79 | 125 | 184 | 269 | 350 | | | | | | | | |
| 15 | | 19 | 30 | 43 | 67 | 99 | 145 | 188 | 238 | | | | | | | |
| 21 | | | 15 | 22 | 34 | 51 | 74 | 96 | 121 | 162 | | | | | | |
| 26 | | | | 14 | 22 | 33 | 48 | 63 | 79 | 105 | 133 | | | | | |
| 37 | | | | | 11 | 16 | 24 | 31 | 39 | 52 | 66 | 78 | | | | |
| 49 | | | | | | 9 | 14 | 18 | 22 | 30 | 38 | 44 | 51 | 59 | | |
| 67 | | | | | | | 7 | 9 | 12 | 16 | 20 | 24 | 27 | 32 | 37 | |
| 80 | | | | | | | | 7 | 8 | 11 | 14 | 17 | 19 | 22 | 26 | 20 |
| 98 | | | | | | | | | 6 | 7 | 9 | 11 | 13 | 15 | 17 | 13 |
| 122 | | | | | | | | | | 5 | 6 | 7 | 8 | 10 | 11 | 13 |
| 147 | | | | | | | | | | | 4 | 5 | 6 | 7 | 8 | 9 |
| 175 | | | | | | | | | | | | 3 | 4 | 5 | 5 | 6 |
| 196 | | | | | | | | | | | | | 3 | 4 | 4 | 5 |
| 227 | | | | | | | | | | | | | | 3 | 3 | 4 |
| 270 | | | | | | | | | | | | | | | 2 | 3 |
| 312 | | | | | | | | | | | | | | | | 2 |
| *C. No.* | | 5x154 | 5x130 | 5x106 | 5x84 | 5x70 | 4x52 | 4x52 | 3x46 | 3x41 | 26 | 19 | 19 | 16 | 16 | 16 |
| *W. No.* | 5x242 | 5x169 | 5x141 | 5x104 | 5x84 | 5x70 | 4x52 | 4x52 | 3x45 | 3x41 | 31 | 26 | 26 | 23 | 23 | |

Maximum power dissipation with T6 temperature class must not exceed 36W

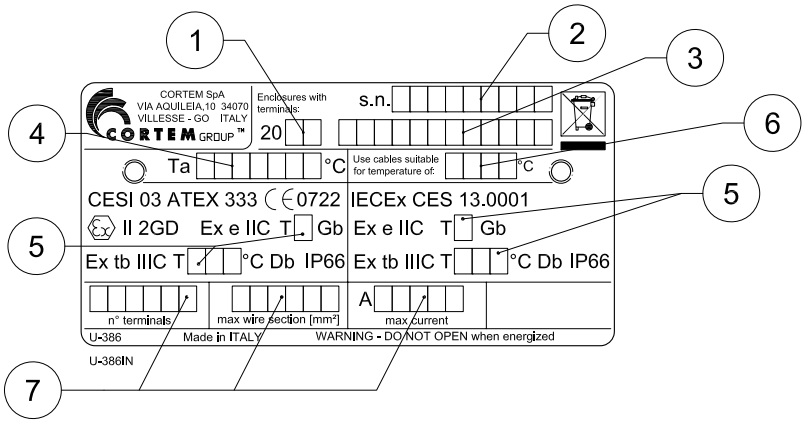
### Codes of terminals used to determine maximum number of terminals

The other values given in the cells along the table's diagonal define the maximum number of conductors allowed, based on their cross-sectional area and maximum current.

| mm² | 1.5 | 2.5 | 4 | 6 | 10 | 16 | 25 | 35 |
|---|---|---|---|---|---|---|---|---|
| Cabur | | CBD 2 | CBD 4 | CBD 6 | CBD 10 | CBD 16 | CBD 35 | |
| Weidmuller | WDU 1.5 | WDU 2.5 | WDU 4 | WDU 6 | WDU 10 | WDU 16 | WDU 35 | |

| mm² | 50 | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
|---|---|---|---|---|---|---|---|---|
| Cabur | CBD 50 | CBD 70 | GPM95/CC | GPM150/CC | | GPM240/CC | | |
| Weidmuller | WDU 50 | WDU 70 | WDU 70/95 | WDU 120/150 | | WDU 240 | | |

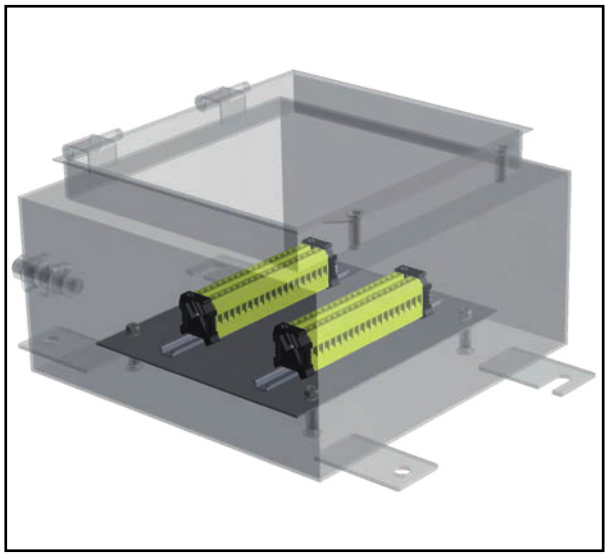
### ATEX - IECEx label for terminal enclosures



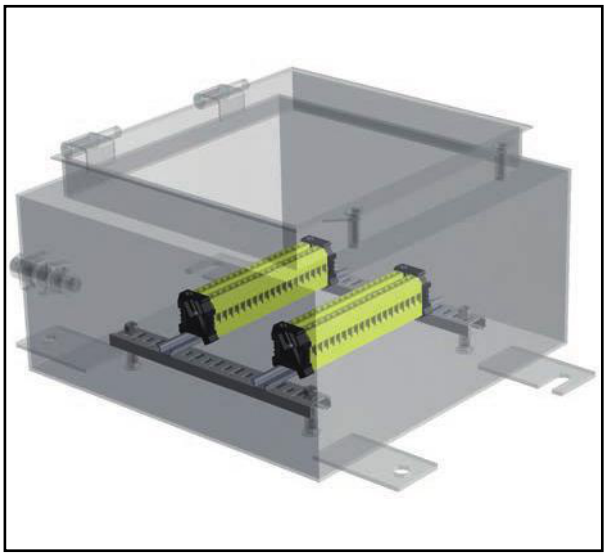

**Data filled in:**

1. year of manufacture
2. serial number
3. product code
4. ambient temperature
5. temperature class and maximum surface
6. temperature of cables
7. electrical specs per certificate

## TYPICAL EXAMPLES OF TERMINAL BLOCK INSTALLATION



**Example of feed-through terminal installation on top hat rail fastened to stainless steel internal mounting plate.**

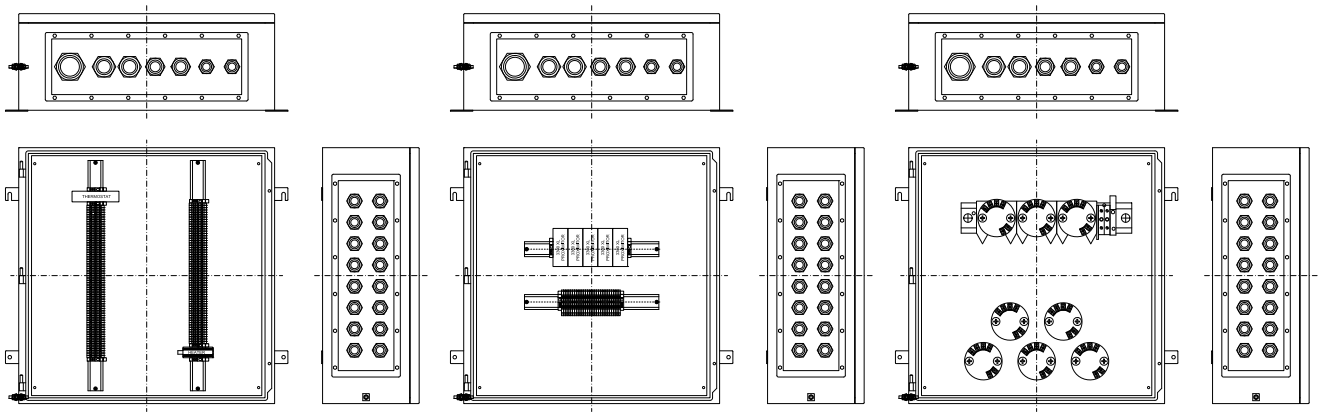


**Example of feed-through terminal installation on top hat rail fastened on two pre-drilled mounting rails.**

**DON'T FORGET TO ORDER THE ACCESSORIES**

**Example:** Enclosure type CTB484820 + Terminal mounting rails OBO2060/S + Cable glands, unions + other...see key

## JUNCTION BOXES WITH EQUIPMENT (FIELDBUS, PROXIMITOR, HEATER...)



Example of junction box with thermostat | Example of junction box with proximitor | Example of junction box with transmitter

**Equipment that can be installed in the junction boxes in accordance with the CML 16 ATEX 3163X or IECEx CML 16.0074X certificate are described in the following table:**

| Parte | Numero di certificato | Esecuzione |
|---|---|---|
| Series 3300XL Proximitor | IECEx BAS 04.0055X | Ex ia IIC |
| Splice Cassette type 8186 | PTB 10 ATEX 2015U<br>IECEx PTB 10.0060U | Ex op pr IIC |
| Enclosure Heater (TEF Series) | NEMKO 11 ATEX 1098X<br>IECEx NEM 11.0005X | Ex e IIC; Ex e mb IIC |
| Heater, type SL.. THERM D.. T.. | PTB 02 ATEX 1116X<br>IECEx PTB 07.0055X | Ex db IIC; Ex tb IIIC |
| Heater, type CP.. THERM D.. T.. | PTB 02 ATEX 1041X<br>IECEx PTB 07.0052X | Ex db IIC; Ex tb IIIC |
| Fieldbus Segment protector type R-SP-E | PTB 04 ATEX 2100X<br>IECEx PTB 05.0010X | Ex e mb IIC; Ex eb mb IIC |
| Temperature Trasmitter Model IPAQ C202X | KIVA 15 ATEX 0033X<br>IECEx KIWA 15.0015X | Ex ia IIC |
| Temperature Trasmitter Model IPAQ C520X | KIVA 14 ATEX 0003X<br>IECEx KIWA 14.0001X | Ex ia IIC |
| Fieldbus Barrier type R4D0-FB-IA | BVS 13 ATEX E 121X<br>IECEx BVS 13.0119X | Ex e ib mb [ia Ga] IIC T4 Gb<br>Ex e ib mb [ia IIIC Da] IIC T4 Gb |
| Heating Resistor type CREx 020 | LCIE 01 ATEX 6073X<br>IECEx LCI 07.0020X | Ex d IIC; Ex tb IIIC |
| Regulating Thermostat type REx | LCIE 01 ATEX 6074<br>IECEx LCI 07.0021 | Ex d IIC; Ex tb IIIC |
| Interconnection block for fieldbus type F240 to F273 | KEMA 03 ATEX 1555X<br>IECEx LCI 11.0068X | Ex ia IIC |
| Fieldbus XE Megablock and Terminator | KEMA 05 ATEX 2006<br>IECEx DEK 16.0036X | Ex eb mb IIC |

**Attention: please contact our sales office for further information.**

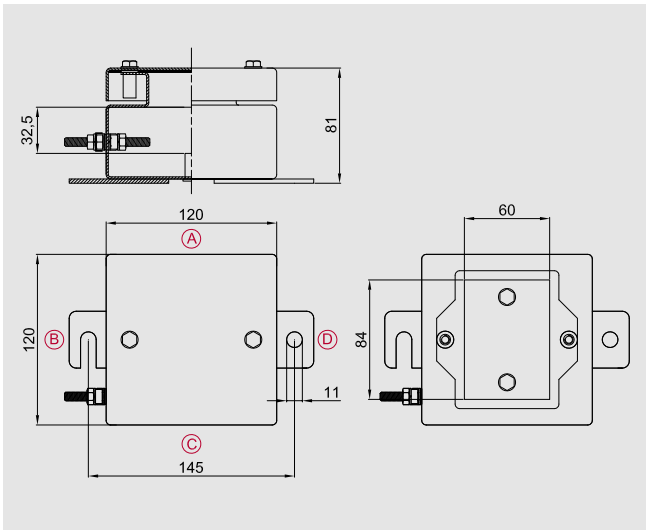
| ILLUSTRATION | DESCRIPTION | MODEL | DIMENSIONS A | B | CODE | KEY |
|---|---|---|---|---|---|---|
|  | Internal mounting plates<br>Stainless steel | CTB221513 | 155 | 80 | B22-443 | |
| | | CTB262616 | 210 | 180 | B26-443 | |
| | | CTB262620 | | | | |
| | | CTB303016 | 250 | 230 | B30-443 | |
| | | CTB303020 | | | | |
| | | CTB382616 | 330 | 180 | B38-443 | |
| | | CTB382620 | | | | |
| | | CTB453816 | 400 | 300 | B45-443 | |
| | | CTB453820 | | | | |
| | | CTB484816 | 430 | 400 | B48-443 | |
| | | CTB484820 | | | | |
| | | CTB503516 | 450 | 270 | B50-443 | |
| | | CTB503520 | | | | |
| | | CTB624516 | 570 | 370 | B62-443 | |
| | | CTB624520 | | | | |
| | | CTB745520 | 690 | 470 | B74-443 | |
| | | CTB765020 | 710 | 430 | B76-443 | |
| | | CTB866420 | 810 | 560 | B86-443 | |
| | | CTB916120 | 860 | 530 | B91-443 | |
| | | CTB916130 | | | | |
| | | CTB987420 | 930 | 660 | B98-443 | |

| ILLUSTRATION | DESCRIPTION | MODEL | FEATURES | CODE | KEY |
|---|---|---|---|---|---|
|  | Terminal block mounting rails | | Pre-drilled steel rails cut to size | OBO2060/S | |
|  | Universal clip for grouping cables in single bundle | For 6-13mm cable | Material: polyamide<br>Hole for M6 screw for fastening | OBO2037/6-13 | |
| | | For 12-20mm cable | | OBO2037/12-20 | |
| | | For 16-24mm cable | | OBO2037/16-24 | |
| | | For 18-30mm cable | | OBO2037/18-30 | |
| | | For 27-43mm cable | | OBO2037/27-43 | |
|  | Breather and drain valve | Thread diameter ISO 7-R 3/8" | Material: stainless steel | ECD-210S | |
|  | Breather valve | ISO M20x1,5 | Material: stainless steel | ECDE-B1B | |
| | | ISO M25x1,5 | | ECDE-B2B | |
| | Breather and drain valve | ISO M20x1,5 | | ECDE-D1B | |
| | | ISO M25x1,5 | | ECDE-D2B | |
|  | Through earth connection | M6 | Material: stainless steel | K-0307/2 | |
| | | M8 | | K-0307/1 | |
|  | Entry blanking plugs and cable glands | For models and codes, visit www.cortemgroup.com | | | |
|  | Lid-mounted control and signalling devices | For control and signalling device models and codes, see control and monitoring device chapter | | M-0... (Ex de) | |

| ILLUSTRATION | DESCRIPTION | MODEL | CODE | KEY |
|---|---|---|---|---|
|  | Gasket between body and lid | CSTB121208 | **B12-446** | |
| | | CSTB151509 | **B15-446** | |
| | | CSTB191910 | **B19-446** | |
| | | CTB221513 | **B22-446** | |
| | | CTB262616 | **B26-446** | |
| | | CTB262620 | **B26-446** | |
| | | CTB303016 | **B30-446** | |
| | | CTB303020 | **B30-446** | |
| | | CTB382616 | **B38-446** | |
| | | CTB382620 | **B38-446** | |
| | | CTB453816 | **B45-446** | |
| | | CTB453820 | **B45-446** | |
| | | CTB484816 | **B48-446** | |
| | | CTB484820 | **B48-446** | |
| | | CTB503516 | **B50-446** | |
| | | CTB503520 | **B50-446** | |
| | | CTB624516 | **B62-446** | |
| | | CTB624520 | **B62-446** | |
| | | CTB745520 | **B74-446** | |
| | | CTB765020 | **B76-446** | |
| | | CTB866420 | **B86-446** | |
| | | CTB916120 | **B91-446** | |
| | | CTB916130 | **B91-446** | |
| | | CTB987420 | **B98-446** | |
|  | Gasket between removable gland plates and body | B1-444 | **B1-445** | |
| | | B2-444 | **B2-445** | |
| | | B3-444 | **B3-445** | |
| | | B4-444 | **B4-445** | |
| | | B5-444 | **B5-445** | |
| | | B6-444 | **B6-445** | |
| | | B7-444 | **B7-445** | |
| | | B8-444 | **B8-445** | |
| | | B9-444 | **B9-445** | |
| | | B10-444 | **B10-445** | |
| | | B11-444 | **B11-445** | |
| | | B12-444 | **B12-445** | |
| | | B13-444 | **B13-445** | |
| | | B14-444 | **B14-445** | |
| | | B15-444 | **B15-445** | |
| | | B16-444 | **B16-445** | |
| | | B17-444 | **B17-445** | |
| | | B18-444 | **B18-445** | |
| | | B19-444 | **B19-445** | |
| | | B20-444 | **B20-445** | |
| | | B21-444 | **B21-445** | |
| | | B22-444 | **B22-445** | |

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CSTB121208** |
| Width/Depth/Height: | **120/120/80mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

| | CODE |
|---|---|
| Breather and drain valve: | **ECD-210S** |

Other:
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm$^2$ | 8 |
| 2.5 mm$^2$ | 5 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

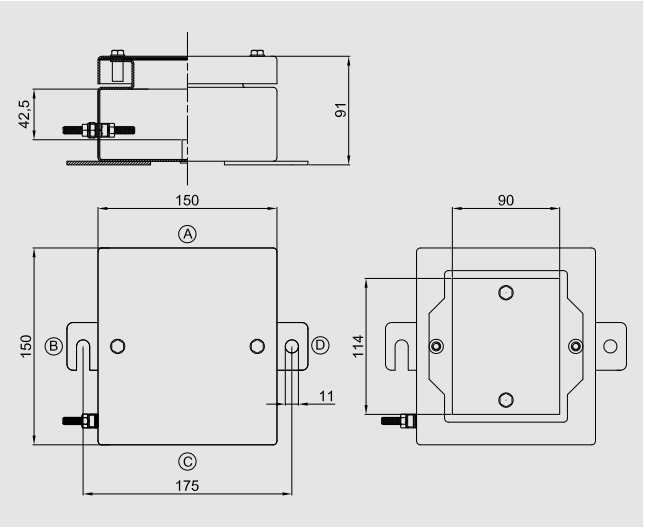
| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M16 | 2 | 3 |
| M20 | 2 | 3 |
| M25 | 2 | 3 |



Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CSTB151509** |
| Width/Depth/Height: | **150/150/90mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

| | CODE |
|---|---|
| Breather and drain valve: | **ECD-210S** |

Other:
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm² | 16 |
| 2.5 mm² | 11 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M16 | 3 | 4 |
| M20 | 3 | 4 |
| M25 | 2 | 3 |
| M32 | 2 | 2 |

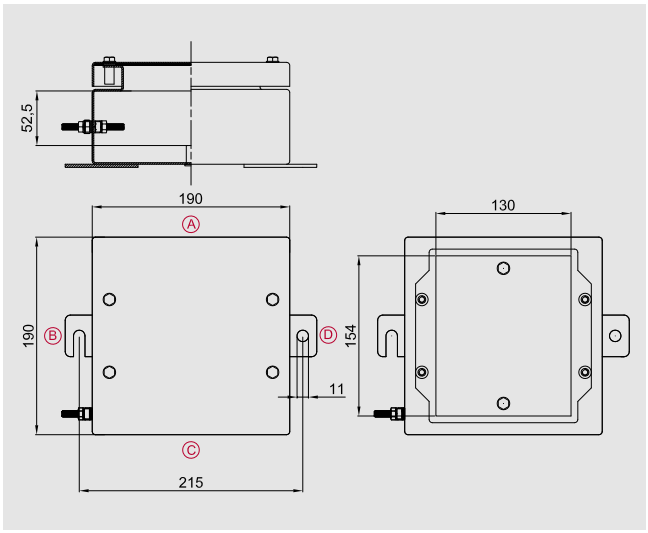


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CSTB191910** |
| Width/Depth/Height: | **190/190/100mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

| | CODE |
|---|---|
| Breather and drain valve: | **ECD-210S** |

Other:
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm² | 28 |
| 2.5 mm² | 19 |
| 4 mm² | 16 |
| 6 mm² | 12 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

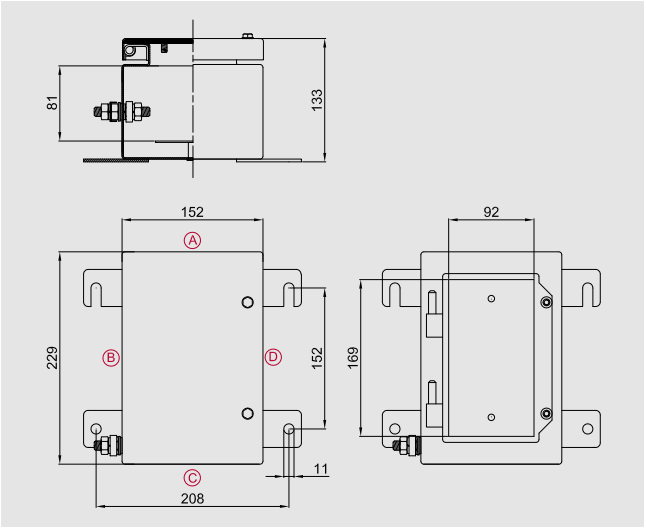
| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M16 | 4 | 4 |
| M20 | 4 | 4 |
| M25 | 3 | 4 |
| M32 | 2 | 3 |
| M40 | 2 | 3 |



Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB221513** |
| Width/Depth/Height: | **229/152/130mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

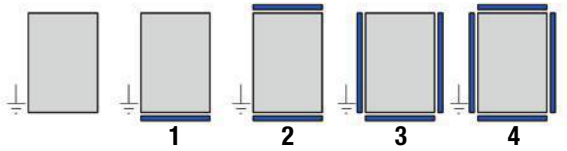
## Accessories

| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B22-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:
Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm² | 27 |
| 2.5 mm² | 19 |
| 4 mm² | 15 |
| 6 mm² | 11 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M16 | 5 | 8 |
| M20 | 5 | 8 |
| M25 | 2 | 3 |
| M32 | 2 | 3 |
| M40 | 1 | 3 |

| With removable gland plates | | |
|---|---|---|
| Hole type | A/C | B/D |
| M16 | 3 | 3 |
| M20 | 3 | 3 |
| M25 | 2 | 2 |
| M40 | 1 | 1 |
| M50 | 1 | 1 |
| M63 | 1 | 1 |

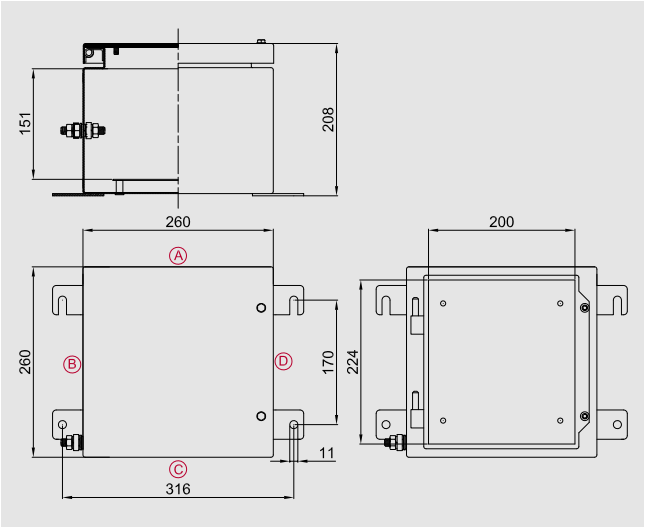


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB262616** |
| Width/Depth/Height: | **260/260/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

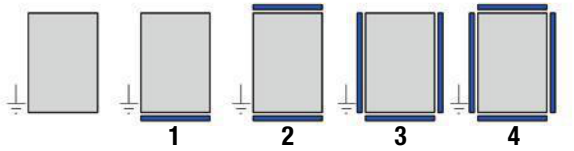
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B26-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm² | 2x36 |
| 2.5 mm² | 2x25 |
| 4 mm² | 2x21 |
| 6 mm² | 2x16 |
| 10 mm² | 2x12 |
| 16 mm² | 2x10 |
| 25 mm² | 7 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

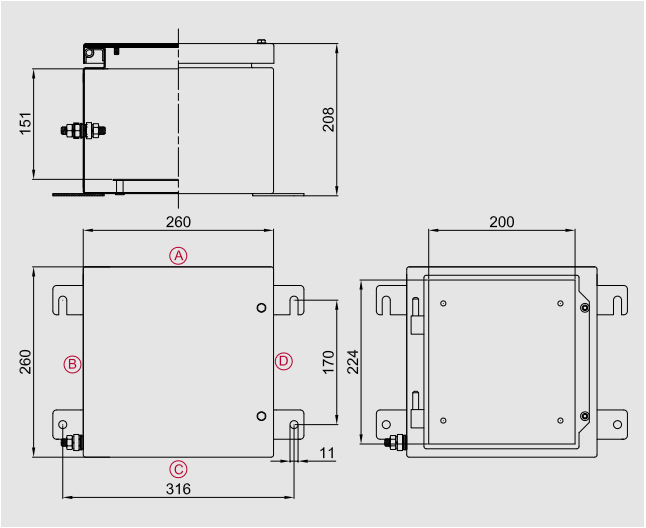
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 10 | 10 | M20 | 10 | 6 |
| M25 | 7 | 8 | M25 | 8 | 3 |
| M32 | 4 | 4 | M32 | 4 | 2 |
| M40 | 3 | 3 | M40 | 3 | 1 |
| M50 | 3 | 3 | M50 | 2 | 1 |
| M63 | 2 | 2 | M63 | - | - |



Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB262620** |
| Width/Depth/Height: | **260/260/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

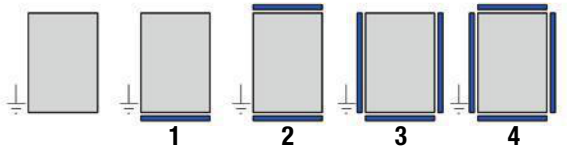
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B26-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm² | 2x36 |
| 2.5 mm² | 2x25 |
| 4 mm² | 2x21 |
| 6 mm² | 2x16 |
| 10 mm² | 2x12 |
| 16 mm² | 2x10 |
| 25 mm² | 7 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 15 | 15 |
| M25 | 14 | 12 |
| M32 | 8 | 6 |
| M40 | 6 | 6 |
| M50 | 3 | 3 |
| M63 | 2 | 2 |

| With removable gland plates | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 15 | 9 |
| M25 | 12 | 6 |
| M32 | 8 | 4 |
| M40 | 6 | 2 |
| M50 | 3 | 1 |

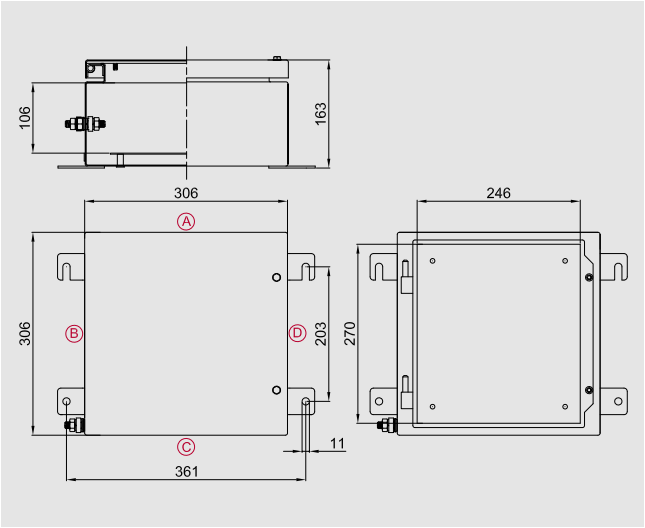


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB303016** |
| Width/Depth/Height: | **306/306/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

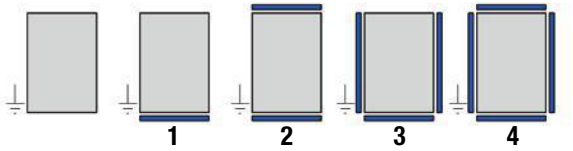
## Accessories

| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B30-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:
Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 1.5 mm² | 2x54 |
| 2.5 mm² | 2x37 |
| 4 mm² | 2x31 |
| 6 mm² | 2x23 |
| 10 mm² | 2x18 |
| 16 mm² | 2x15 |
| 25 mm² | 11 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

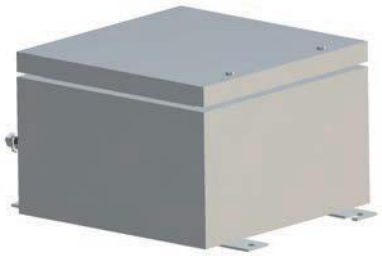
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 12 | 12 | M20 | 12 | 10 |
| M25 | 10 | 10 | M25 | 10 | 8 |
| M32 | 9 | 9 | M32 | 4 | 4 |
| M40 | 8 | 8 | M40 | 4 | 3 |
| M50 | 3 | 3 | M50 | 3 | 3 |
| M63 | 2 | 2 | M63 | 2 | 2 |

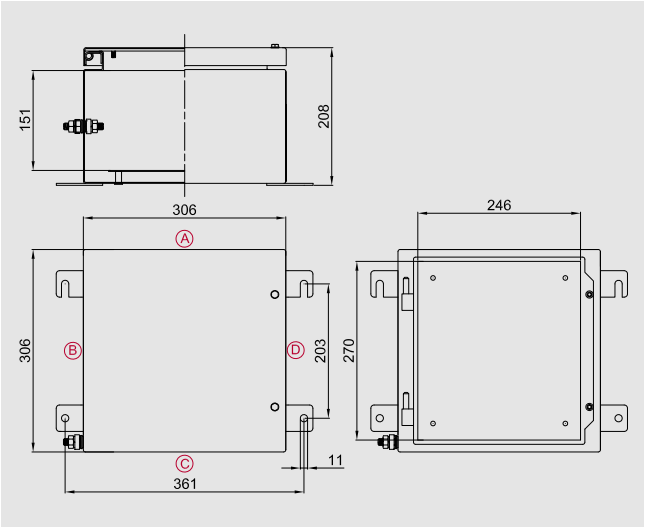


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB303020** |
| Width/Depth/Height: | **306/306/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

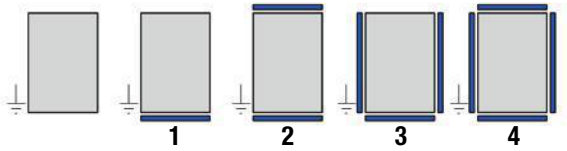
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B30-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x37 |
| 4 mm² | 2x31 |
| 6 mm² | 2x23 |
| 10 mm² | 2x18 |
| 16 mm² | 2x15 |
| 25 mm² | 11 |
| 35 mm² | 11 |
| 50 mm² | 10 |
| 70 mm² | 9 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 18 | 18 |
| M25 | 17 | 15 |
| M32 | 10 | 10 |
| M40 | 8 | 8 |
| M50 | 6 | 6 |
| M63 | 3 | 3 |

| With removable gland plates | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 18 | 15 |
| M25 | 13 | 10 |
| M32 | 8 | 8 |
| M40 | 4 | 3 |
| M50 | 3 | 2 |

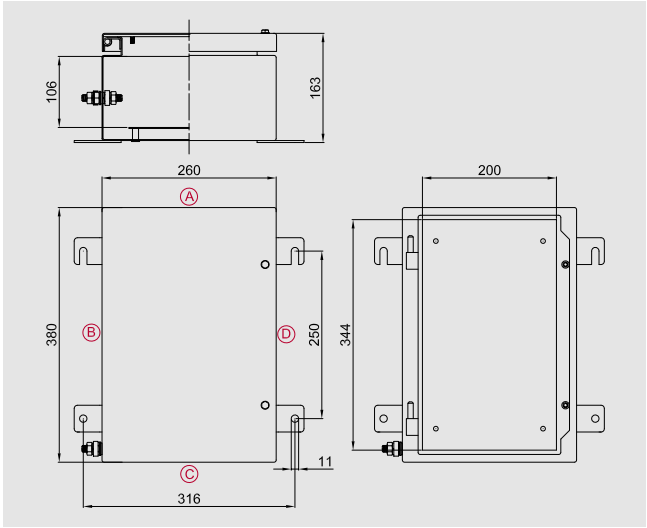


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB382616** |
| Width/Depth/Height: | **380/260/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

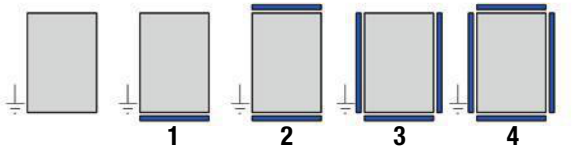
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B38-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x71 |
| 4 mm² | 2x49 |
| 6 mm² | 2x41 |
| 10 mm² | 2x31 |
| 16 mm² | 2x20 |
| 25 mm² | 15 |
| 35 mm² | 15 |
| 50 mm² | 13 |
| 70 mm² | 11 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 10 | 16 |
| M25 | 10 | 14 |
| M32 | 7 | 11 |
| M40 | 3 | 5 |
| M50 | 2 | 4 |
| M63 | 2 | 3 |

| With removable gland plates | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 10 | 12 |
| M25 | 8 | 9 |
| M32 | 4 | 4 |
| M40 | 3 | 3 |
| M50 | 3 | 3 |



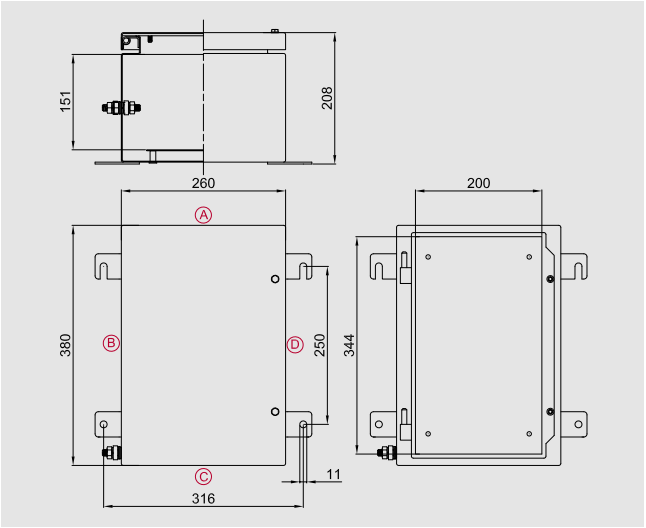
Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes



Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.




## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB382620** |
| Width/Depth/Height: | **380/260/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

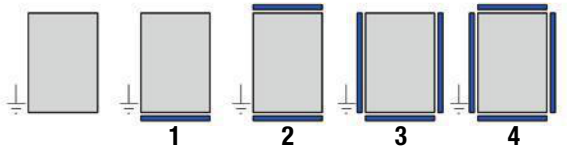
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B38-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x71 |
| 4 mm² | 2x49 |
| 6 mm² | 2x41 |
| 10 mm² | 2x31 |
| 16 mm² | 2x20 |
| 25 mm² | 15 |
| 35 mm² | 15 |
| 50 mm² | 13 |
| 70 mm² | 11 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 15 | 24 |
| M25 | 12 | 21 |
| M32 | 8 | 12 |
| M40 | 6 | 10 |
| M50 | 6 | 8 |
| M63 | 2 | 3 |

| With removable gland plates | | |
|---|---|---|
| Hole type | A/C | B/D |
| M20 | 15 | 18 |
| M25 | 12 | 15 |
| M32 | 8 | 8 |
| M40 | 6 | 5 |
| M50 | 4 | 3 |

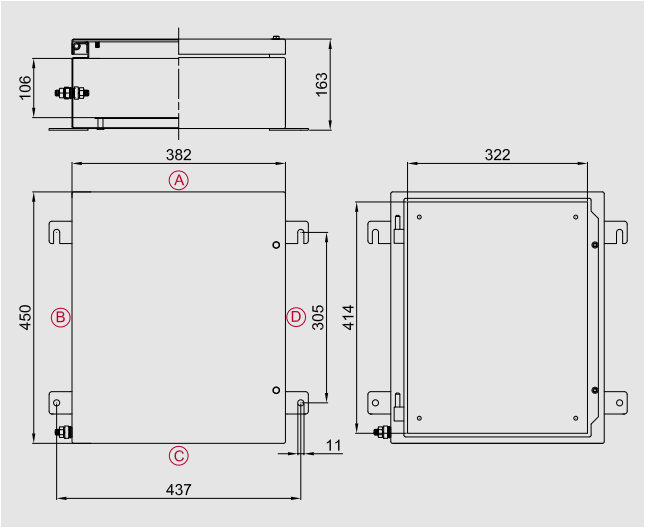


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB453816** |
| Width/Depth/Height: | **450/380/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

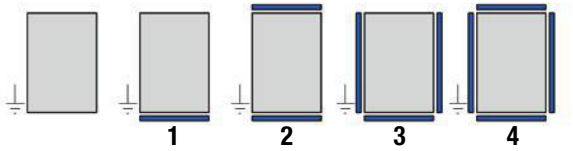
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B45-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x65 |
| 4 mm² | 2x54 |
| 6 mm² | 2x41 |
| 10 mm² | 2x32 |
| 16 mm² | 2x27 |
| 25 mm² | 2x20 |
| 35 mm² | 2x20 |
| 50 mm² | 2x17 |
| 70 mm² | 2x15 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 16 | 20 | M20 | 16 | 16 |
| M25 | 14 | 16 | M25 | 14 | 14 |
| M32 | 6 | 7 | M32 | 6 | 6 |
| M40 | 5 | 6 | M40 | 5 | 5 |
| M50 | 4 | 5 | M50 | 4 | 4 |
| M63 | 3 | 4 | M63 | 3 | 3 |

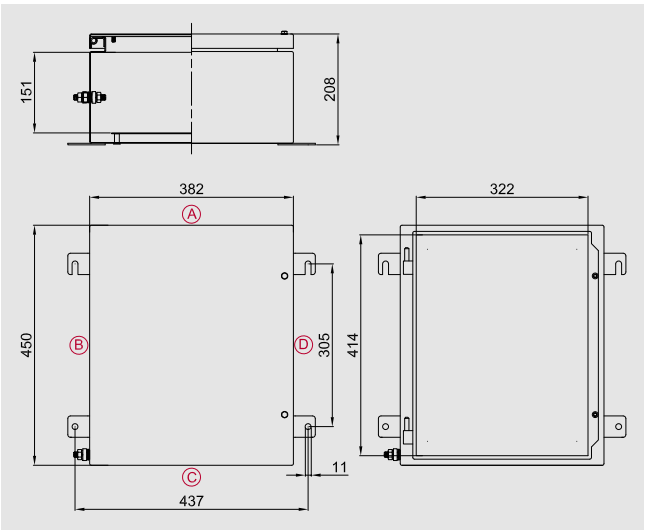


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB453820** |
| Width/Depth/Height: | **450/380/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

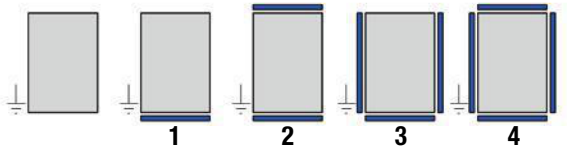
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B45-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x65 |
| 4 mm² | 2x54 |
| 6 mm² | 2x41 |
| 10 mm² | 2x32 |
| 16 mm² | 2x27 |
| 25 mm² | 2x20 |
| 70 mm² | 2x15 |
| 185 mm² | 8 |
| 300 mm² | 6 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 24 | 30 | M20 | 24 | 24 |
| M25 | 21 | 24 | M25 | 20 | 20 |
| M32 | 12 | 14 | M32 | 12 | 12 |
| M40 | 10 | 12 | M40 | 8 | 8 |
| M50 | 8 | 10 | M50 | 4 | 4 |
| M63 | 3 | 4 | M63 | 3 | 3 |

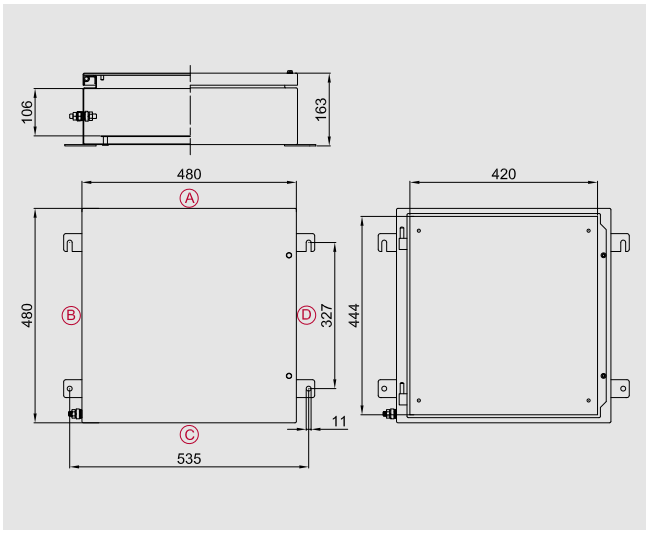


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB484816** |
| Width/Depth/Height: | **480/480/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

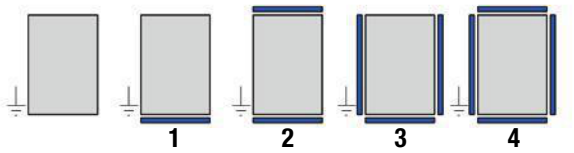
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B48-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 3x69 |
| 4 mm² | 3x58 |
| 6 mm² | 3x43 |
| 10 mm² | 2x34 |
| 16 mm² | 2x28 |
| 25 mm² | 2x21 |
| 35 mm² | 2x21 |
| 50 mm² | 2x18 |
| 70 mm² | 2x16 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

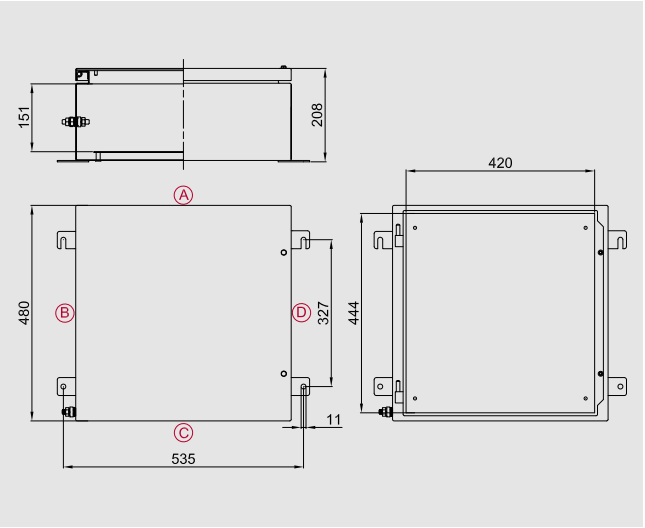
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 22 | 20 | M20 | 22 | 18 |
| M25 | 18 | 18 | M25 | 18 | 14 |
| M32 | 8 | 8 | M32 | 7 | 6 |
| M40 | 7 | 6 | M40 | 5 | 5 |
| M50 | 6 | 5 | M50 | 5 | 4 |
| M63 | 4 | 4 | M63 | 4 | 3 |



Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB484820** |
| Width/Depth/Height: | **480/480/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

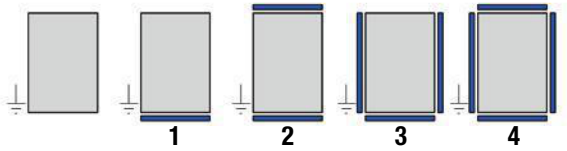
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B48-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 3x69 |
| 4 mm² | 3x58 |
| 6 mm² | 3x43 |
| 10 mm² | 2x34 |
| 16 mm² | 2x28 |
| 25 mm² | 2x21 |
| 70 mm² | 2x16 |
| 185 mm² | 9 |
| 300 mm² | 6 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 32 | 30 | M20 | 32 | 27 |
| M25 | 26 | 26 | M25 | 24 | 21 |
| M32 | 16 | 14 | M32 | 14 | 12 |
| M40 | 13 | 12 | M40 | 12 | 8 |
| M50 | 11 | 10 | M50 | 5 | 4 |
| M63 | 4 | 4 | M63 | 4 | 3 |

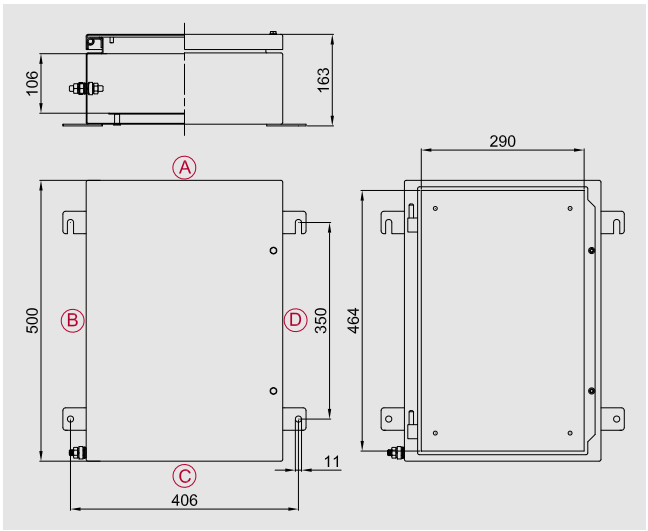


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB503516** |
| Width/Depth/Height: | **500/350/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

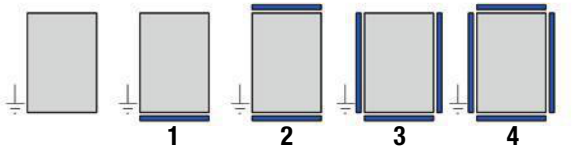
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B50-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x73 |
| 4 mm² | 2x61 |
| 6 mm² | 2x46 |
| 10 mm² | 2x36 |
| 16 mm² | 2x30 |
| 25 mm² | 2x22 |
| 35 mm² | 2x22 |
| 50 mm² | 2x19 |
| 70 mm² | 2x17 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 14 | 22 | M20 | 14 | 16 |
| M25 | 12 | 19 | M25 | 12 | 12 |
| M32 | 5 | 8 | M32 | 5 | 5 |
| M40 | 4 | 7 | M40 | 4 | 4 |
| M50 | 4 | 6 | M50 | 4 | 4 |
| M63 | 3 | 4 | M63 | 3 | 3 |

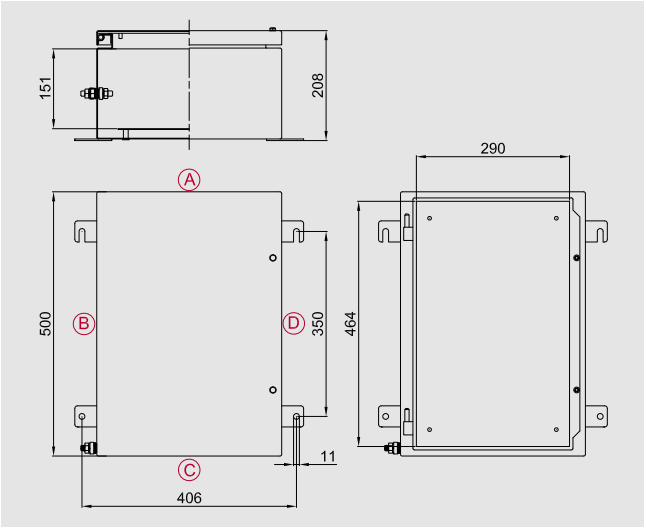


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .



Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.




## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB503520** |
| Width/Depth/Height: | **500/350/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

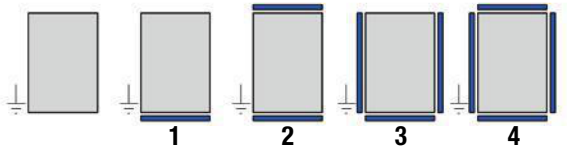
## Accessories

| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B50-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:
Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 2x73 |
| 4 mm² | 2x61 |
| 6 mm² | 2x46 |
| 10 mm² | 2x36 |
| 16 mm² | 2x30 |
| 25 mm² | 2x22 |
| 70 mm² | 2x17 |
| 185 mm² | 10 |
| 300 mm² | 6 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

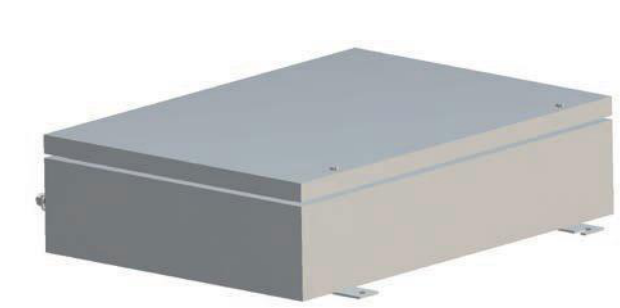
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 21 | 33 | M20 | 21 | 24 |
| M25 | 18 | 27 | M25 | 17 | 18 |
| M32 | 12 | 16 | M32 | 10 | 10 |
| M40 | 10 | 14 | M40 | 8 | 8 |
| M50 | 7 | 11 | M50 | 4 | 4 |
| M63 | 3 | 4 | M63 | 3 | 3 |

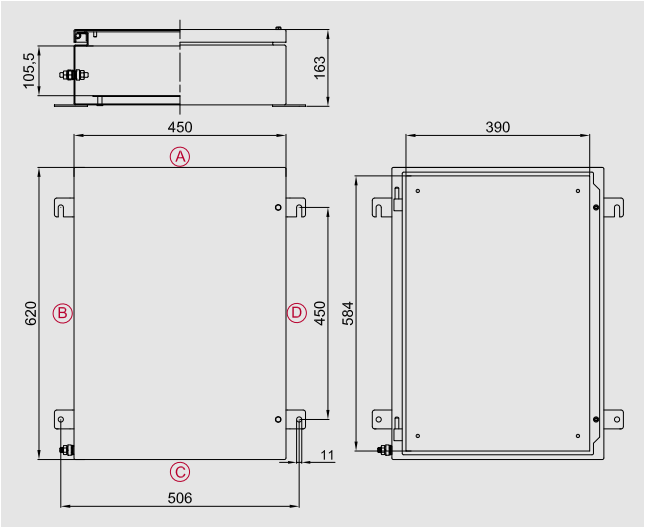


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB624516** |
| Width/Depth/Height: | **620/450/160mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

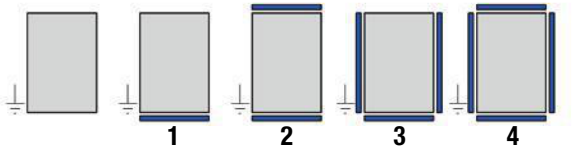
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B62-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 3x97 |
| 4 mm² | 3x81 |
| 6 mm² | 3x61 |
| 10 mm² | 2x48 |
| 16 mm² | 2x40 |
| 25 mm² | 2x30 |
| 35 mm² | 2x30 |
| 50 mm² | 2x26 |
| 70 mm² | 2x23 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

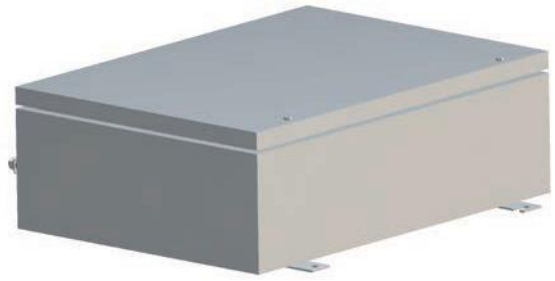
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 20 | 28 | M20 | 19 | 22 |
| M25 | 18 | 24 | M25 | 16 | 16 |
| M32 | 7 | 10 | M32 | 7 | 7 |
| M40 | 6 | 9 | M40 | 6 | 6 |
| M50 | 5 | 7 | M50 | 5 | 5 |
| M63 | 4 | 6 | M63 | 4 | 4 |

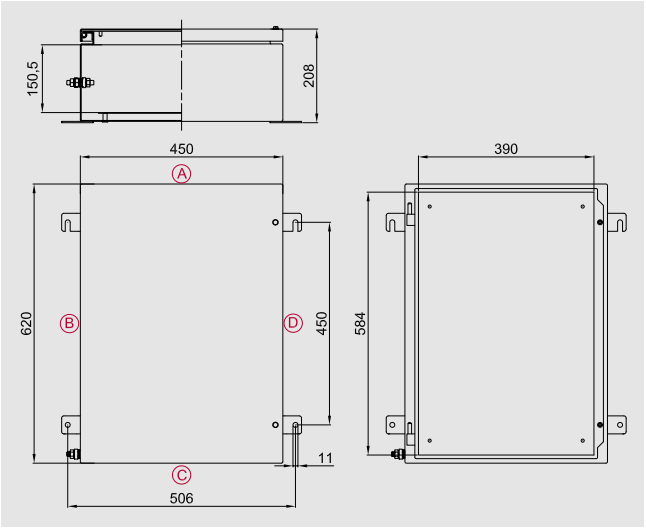


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB624520** |
| Width/Depth/Height: | **620/450/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

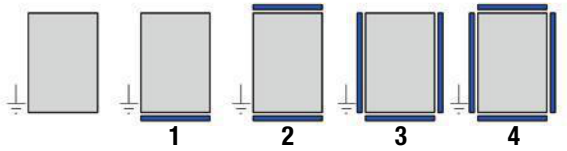
| | CODE |
|---|---|
| 1.5mm-thick stainless steel internal mounting plate: | **B62-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 3x97 |
| 4 mm² | 3x81 |
| 6 mm² | 3x61 |
| 10 mm² | 2x48 |
| 16 mm² | 2x40 |
| 25 mm² | 2x30 |
| 70 mm² | 2x23 |
| 185 mm² | 13 |
| 300 mm² | 9 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

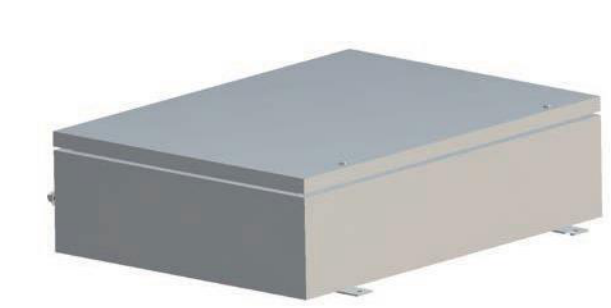
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 30 | 39 | M20 | 29 | 33 |
| M25 | 26 | 36 | M25 | 23 | 24 |
| M32 | 14 | 20 | M32 | 14 | 14 |
| M40 | 12 | 18 | M40 | 10 | 12 |
| M50 | 10 | 15 | M50 | 5 | 5 |
| M63 | 4 | 6 | M63 | 4 | 4 |

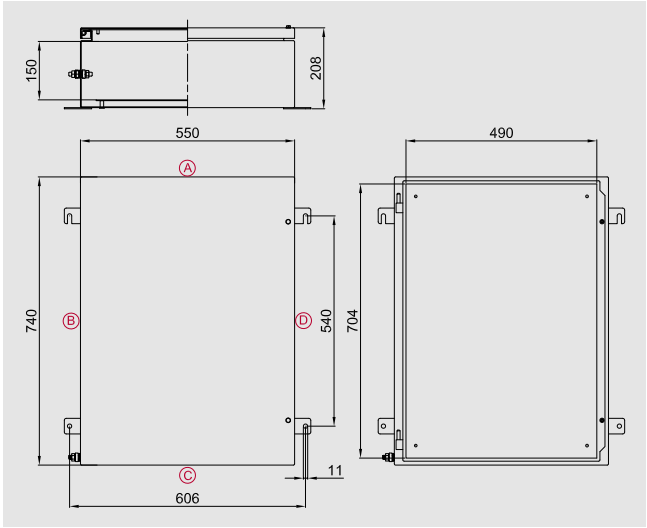


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB745520** |
| Width/Depth/Height: | **740/550/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

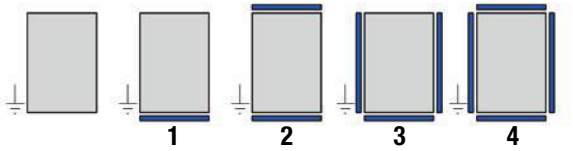
## Accessories

| | CODE |
|---|---|
| 2mm-thick stainless steel internal mounting plate: | **B74-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:
Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 4x121 |
| 4 mm² | 4x101 |
| 6 mm² | 4x76 |
| 10 mm² | 3x60 |
| 16 mm² | 3x50 |
| 25 mm² | 3x37 |
| 70 mm² | 3x29 |
| 185 mm² | 16 |
| 300 mm² | 11 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 36 | 50 | M20 | 36 | 42 |
| M25 | 32 | 42 | M25 | 30 | 30 |
| M32 | 16 | 24 | M32 | 16 | 18 |
| M40 | 16 | 21 | M40 | 13 | 14 |
| M50 | 13 | 17 | M50 | 7 | 7 |
| M63 | 5 | 7 | M63 | 5 | 5 |

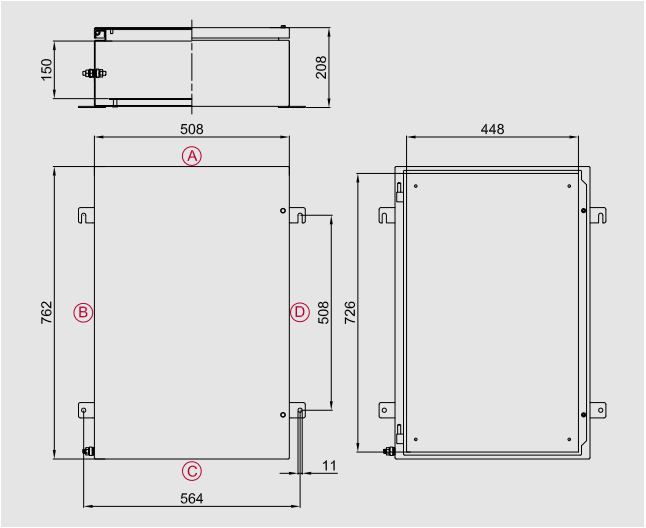


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB765020** |
| Width/Depth/Height: | **762/508/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

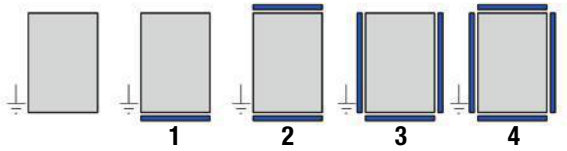
| | CODE |
|---|---|
| 2mm-thick stainless steel internal mounting plate: | **B76-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 4x127 |
| 4 mm² | 4x106 |
| 6 mm² | 4x79 |
| 10 mm² | 3x63 |
| 16 mm² | 3x53 |
| 25 mm² | 3x39 |
| 70 mm² | 3x30 |
| 185 mm² | 17 |
| 300 mm² | 12 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

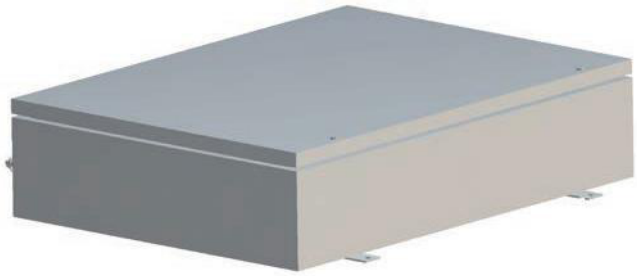
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 33 | 50 | M20 | 33 | 42 |
| M25 | 29 | 44 | M25 | 16 | 22 |
| M32 | 18 | 26 | M32 | 14 | 22 |
| M40 | 14 | 22 | M40 | 10 | 16 |
| M50 | 11 | 18 | M50 | 5 | 8 |
| M63 | 5 | 7 | M63 | 4 | 5 |

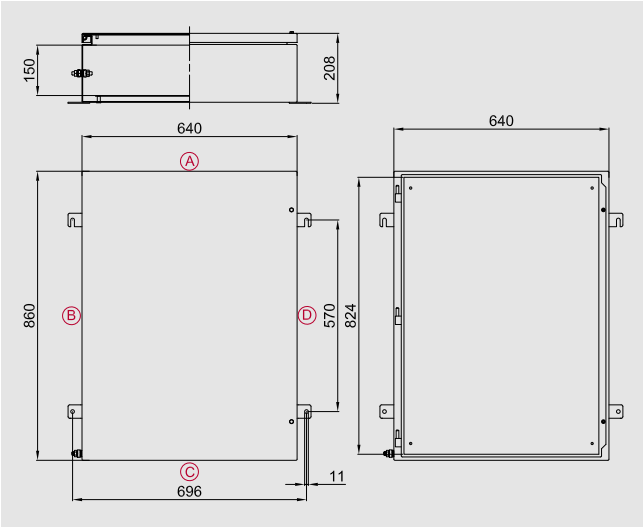


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB866420** |
| Width/Depth/Height: | **860/640/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

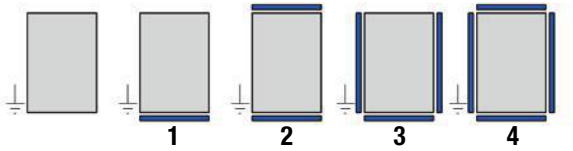
## Accessories

| | CODE |
|---|---|
| 2mm-thick stainless steel internal mounting plate: | **B86-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:
Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 5x145 |
| 4 mm² | 5x121 |
| 6 mm² | 5x91 |
| 10 mm² | 5x72 |
| 16 mm² | 5x60 |
| 25 mm² | 4x45 |
| 70 mm² | 3x35 |
| 185 mm² | 20 |
| 300 mm² | 13 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

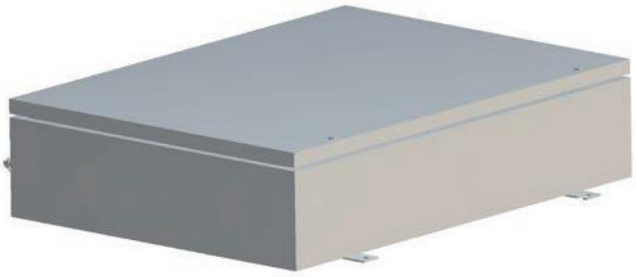
## Number of cable glands

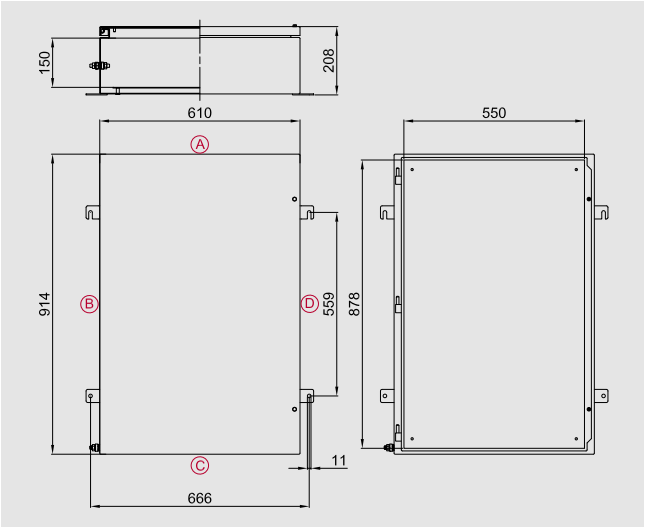
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 44 | 57 | M20 | 44 | 48 |
| M25 | 38 | 51 | M25 | 36 | 36 |
| M32 | 22 | 28 | M32 | 20 | 20 |
| M40 | 18 | 24 | M40 | 16 | 16 |
| M50 | 15 | 20 | M50 | 8 | 8 |
| M63 | 6 | 8 | M63 | 6 | 6 |



Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB916120** |
| Width/Depth/Height: | **914/610/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

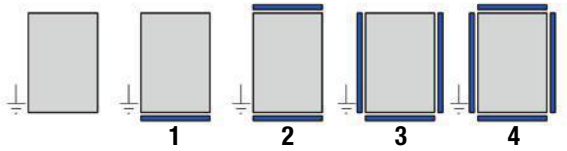
## Accessories

| | CODE |
|---|---|
| 2mm-thick stainless steel internal mounting plate: | **B91-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:
Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 5x157 |
| 4 mm² | 5x131 |
| 6 mm² | 5x98 |
| 10 mm² | 5x78 |
| 16 mm² | 5x65 |
| 25 mm² | 4x49 |
| 70 mm² | 3x38 |
| 185 mm² | 21 |
| 300 mm² | 14 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

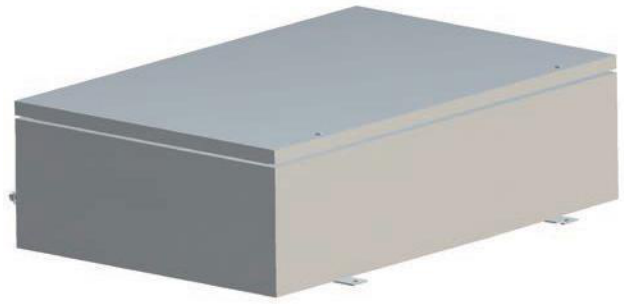
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 41 | 60 | M20 | 41 | 48 |
| M25 | 35 | 53 | M25 | 22 | 22 |
| M32 | 20 | 30 | M32 | 16 | 22 |
| M40 | 18 | 26 | M40 | 8 | 8 |
| M50 | 14 | 22 | M50 | 8 | 8 |
| M63 | 6 | 9 | M63 | 4 | 5 |



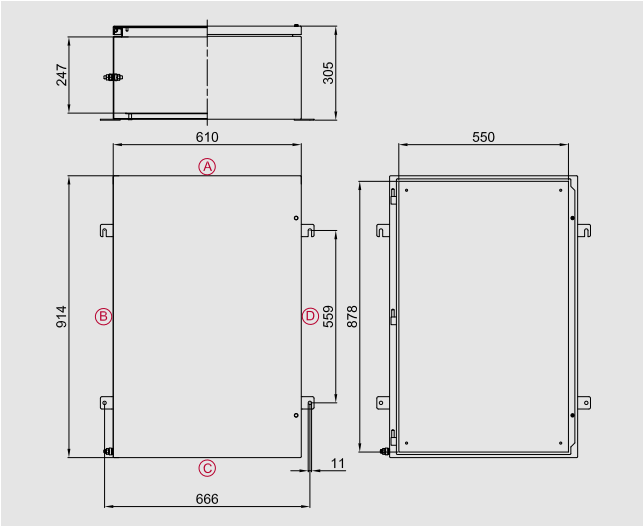
Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes



Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.




## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB916130** |
| Width/Depth/Height: | **914/610/305mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

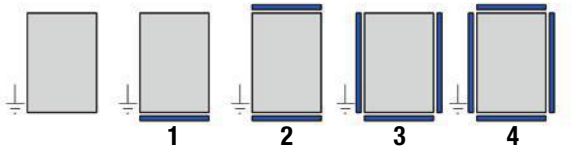
| | CODE |
|---|---|
| 2mm-thick stainless steel internal mounting plate: | **B91-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
Key locking system

## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 5x157 |
| 4 mm² | 5x131 |
| 6 mm² | 5x98 |
| 10 mm² | 5x78 |
| 16 mm² | 5x65 |
| 25 mm² | 4x49 |
| 70 mm² | 3x38 |
| 185 mm² | 21 |
| 300 mm² | 14 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

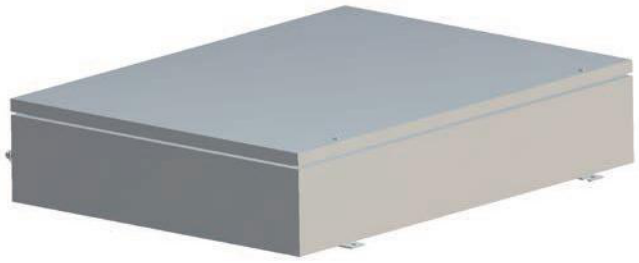
| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 41 | 60 | M20 | 41 | 48 |
| M25 | 35 | 53 | M25 | 22 | 22 |
| M32 | 20 | 30 | M32 | 16 | 22 |
| M40 | 18 | 26 | M40 | 8 | 8 |
| M50 | 14 | 22 | M50 | 8 | 8 |
| M63 | 6 | 9 | M63 | 4 | 5 |

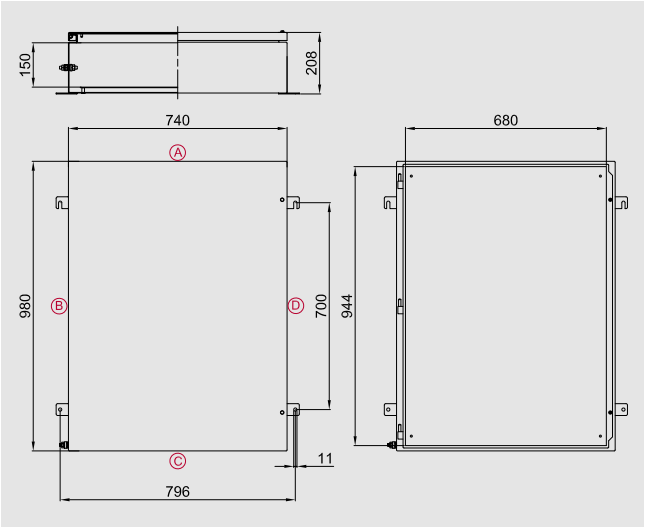


Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# CTB... series (Ex e) and (Ex i) stainless steel junction boxes






Zone 1,2,21,22.
Degree of protection IP66.
Stainless steel body and lid.
Acid/hydrocarbon-resistant gasket.
Stainless steel bolts and screws.
Impact protection IK10.

## Ordering details

| | |
|---|---|
| Standard stainless steel enclosure: | **CTB987420** |
| Width/Depth/Height: | **980/740/205mm** |

## Certification data for enclosures with terminals

Group II Category 2GD

Zone 1- Zone 2 (Gas) Zone 21 - Zone 22 (Dust)

II 2GD Ex eb IIC T.. Gb - Ex tb IIIC T.. Db IP66

II 2GD Ex ia IIC T.. Gb - Ex ia IIIC T.. Db IP66

II 2GD Ex eb ia IIC T.. Gb - Ex tb ia IIIC T.. Db IP66

Ambient temperature: -40°C +55°C (+40°C)

Certification:

| | |
|---|---|
| CESI 03 ATEX 333 | (ATEX) |
| CESI 03 ATEX 115 X | (ATEX) |
| IEC Ex CES 13.0001 | (IECEx) |
| Russian | (TR CU) |
| Brazilian | (INMETRO) |

## Accessories

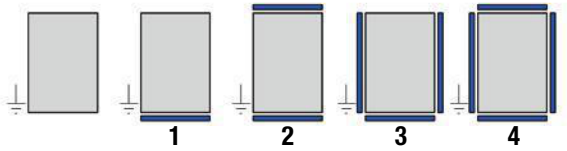
| | CODE |
|---|---|
| 2mm-thick stainless steel internal mounting plate: | **B98-443** |
| Terminal block mounting rails: | **OBO2060/S** |
| Breather and drain valve: | **ECD-210S** |

Other:

Padlocking system
Internal anti-condensation coating
External epoxy coatings in different colour
Body and cover thickness of 3 mm
Clip for grouping cables in single bundle
M6 or M8 through earth connection
Possible drilling of the enclosure bottom
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## Ordering details for boxes with removable gland plates

**Removable gland plate position coding**




### Ordering code examples

**1) CTB503516S3**
500x350x160 stainless steel box with 3 removable gland plates

**2) CTB624520S4**
620x450x205 stainless steel box with 4 removable gland plates

## Max. number of terminals

| X-SECT. | QTY. |
|---|---|
| 2.5 mm² | 5x169 |
| 4 mm² | 5x141 |
| 6 mm² | 5x106 |
| 10 mm² | 5x84 |
| 16 mm² | 5x70 |
| 25 mm² | 4x52 |
| 70 mm² | 4x52 |
| 185 mm² | 23 |
| 300 mm² | 16 |



Eg. 2x22= 2 rows of 22 terminals (total 44 terminals). The maximum number of standard terminals refers to the mounting of CABUR and/or WEIDMULLER terminals.
The data in the table are given as a rough guide only based solely on the size of the enclosures and the space taken up by the terminals.

## Number of cable glands

| Standard enclosure | | | With removable gland plates | | |
|---|---|---|---|---|---|
| Hole type | A/C | B/D | Hole type | A/C | B/D |
| M20 | 50 | 63 | M20 | 44 | 58 |
| M25 | 44 | 59 | M25 | 36 | 48 |
| M32 | 26 | 34 | M32 | 20 | 28 |
| M40 | 22 | 28 | M40 | 16 | 20 |
| M50 | 18 | 24 | M50 | 8 | 10 |
| M63 | 7 | 9 | M63 | 6 | 8 |



Research conducted using Cortem's new NAV and NEV series cable glands.

As required by the current standard, holes can be drilled by Cortem or by authorized partners who hold a production notification in accordance with ATEX Directive .

# WDU 2.5

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image



To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

### General ordering data

| | |
|---|---|
| Version | Feed-through terminal block, Screw connection, dark beige, 2.5 mm², 24 A, 800 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid, 130 °C |
| Order No. | 1020000000 |
| Type | WDU 2.5 |
| GTIN (EAN) | 4008190099633 |
| Qty. | 100 pc(s). |

# WDU 2.5

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 46.5 mm | Depth (inches) | 1.831 inch |
| Height | 60 mm | Height (inches) | 2.362 inch |
| Width | 5.1 mm | Width (inches) | 0.201 inch |
| Net weight | 7.59 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |

### Material data

| | | | |
|---|---|---|---|
| Material | Wemid | Colour | dark beige |
| UL 94 flammability rating | V-0 | | |

### Rating data IECEx/ATEX

| | | | |
|---|---|---|---|
| Certificate No. (ATEX) | DEMKO14ATEX1338U | Certificate No. (IECEX) | IECEXULD14.0005U |
| Max. voltage (ATEX) | 690 V | Current (ATEX) | 24 A |
| Wire cross section max. (ATEX) | 2.5 mm² | Max. voltage (IECEX) | 690 V |
| Current (IECEX) | 24 A | Wire cross section max. (IECEX) | 2.5 mm² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | Ex eb II C Gb |
| Ex 2014/34/EU label | II 2 G D | | |

### System specifications

| | | | |
|---|---|---|---|
| Version | Screw connection, for plug-in cross-connector, for screwable cross-connection, One end without connector | End cover plate required | Yes |
| Number of potentials | 1 | Number of levels | 1 |
| Number of clamping points per level | 2 | Number of potentials per tier | 1 |
| Levels cross-connected internally | No | PE connection | No |
| Rail | TS 35 | N-function | No |
| PE function | No | PEN function | No |

### 2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

| | | | |
|---|---|---|---|
| Cross-section for connected wire, solid, two clampable wires, max. | 1.5 mm² | Cross-section for connected wire, solid, two clampable wires, min. | 0.5 mm² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 1.5 mm² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 0.5 mm² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 0.5 mm² | Wire cross-section, finely stranded, two clampable wires, max. | 1.5 mm² |

### Additional technical data

| | | | |
|---|---|---|---|
| Explosion-tested version | Yes | Number of similar terminals | 1 |
| Open sides | right | Type of mounting | Snap-on |

# WDU 2.5

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

### CSA rating data

| | | | |
|---|---|---|---|
| Certificate No. (CSA) | 200039-1057876 | Current size C (CSA) | 20 A |
| Voltage size C (CSA) | 600 V | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG | | |

### Conductors for clamping (additional connection)

| | |
|---|---|
| Connection type, additional connection | Screw connection |

### Conductors for clamping (rated connection)

| | | | | |
|---|---|---|---|---|
| Blade size | 0.6 x 3.5 mm | | | |
| Clampable conductor | Connection specification | Screw connection | | |
| | Cross-section for conductor connection | Type | solid, H05(07) V-U | |
| | | min. | 0.5 mm² | |
| | | max. | 4 mm² | |
| | | nominal | 2.5 mm² | |
| | wire end ferrule | Stripping length | min. | 10 mm |
| | | | max. | 10 mm |
| | | | nominal | 10 mm |
| | | Tightening torque | min. | 0.4 Nm |
| | | | max. | 0.8 Nm |
| | | Recommended wire-end ferrule | | |
| | Connection specification | Screw connection | | |
| | Cross-section for conductor connection | Type | stranded, H07V-R | |
| | | min. | 1.5 mm² | |
| | | max. | 4 mm² | |
| | | nominal | 2.5 mm² | |
| | wire end ferrule | Stripping length | min. | 10 mm |
| | | | max. | 10 mm |
| | | | nominal | 10 mm |
| | | Tightening torque | min. | 0.4 Nm |
| | | | max. | 0.8 Nm |
| | | Recommended wire-end ferrule | | |
| | Connection specification | Screw connection | | |
| | Cross-section for conductor connection | Type | flexible, H05(07) V-K | |
| | | min. | 0.5 mm² | |
| | | max. | 2.5 mm² | |
| | | nominal | 2.5 mm² | |
| | wire end ferrule | Stripping length | min. | 10 mm |
| | | | max. | 10 mm |
| | | | nominal | 10 mm |
| | | Tightening torque | min. | 0.4 Nm |
| | | | max. | 0.8 Nm |
| | | Recommended wire-end ferrule | | |
| Clamping range, max. | 4 mm² | | | |
| Clamping range, min. | 0.05 mm² | | | |
| Clamping screw | M 2.5 | | | |
| Connection cross-section, stranded, max. | 4 mm² | | | |
| Connection cross-section, stranded, min. | 0.5 mm² | | | |
| Connection direction | on side | | | |
| Gauge to IEC 60947-1 | A3 | | | |

# WDU 2.5

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

| | |
|---|---|
| Number of connections | 2 |
| Stripping length | 10 mm |
| Tightening torque, max. | 0.8 Nm |
| Tightening torque, min. | 0.4 Nm |
| Torque level with DMS electric screwdriver | 1 |
| Twin wire-end ferrules, max. | 1.5 mm² |
| Twin wire-end ferrules, min. | 0.5 mm² |
| Type of connection | Screw connection |
| Wire connection cross section AWG, max. | AWG 12 |
| Wire connection cross section AWG, min. | AWG 30 |
| Wire connection cross section, finely stranded, max. | 4 mm² |
| Wire connection cross section, finely stranded, min. | 0.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm² |
| Wire connection cross-section, solid core, max. | 4 mm² |
| Wire connection cross-section, solid core, min. | 0.5 mm² |

### General

| | | | |
|---|---|---|---|
| Rail | TS 35 | Standards | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 12 | Wire connection cross section AWG, min. | AWG 30 |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 2.5 mm² | Rated voltage | 800 V |
| Rated DC voltage | 800 V | Rated current | 24 A |
| Current at maximum wires | 32 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ | Rated impulse withstand voltage | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 0.77 W | Pollution severity | 3 |

### UL rating data

| | | | |
|---|---|---|---|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 30 AWG | Conductor size Field wiring max. (UR) | 12 AWG |
| Conductor size Field wiring min. (UR) | 28 AWG | Current size B (UR) | 25 A |
| Current size C (UR) | 25 A | Voltage size B (UR) | 600 V |
| Voltage size C (UR) | 600 V | | |

# WDU 2.5

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC000897 | ETIM 7.0 | EC000897 |
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ECLASS 9.0 | 27-14-11-20 | ECLASS 9.1 | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |
| ECLASS 12.0 | 27-14-11-20 | ECLASS 13.0 | 27-25-01-01 |

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | / |
| RoHS Compliance Status | Compliant without exemption |

### Approvals

Approvals

| | |
|---|---|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E60693 |
| Certificate No. (cURusEX) | E184763 |

### Downloads

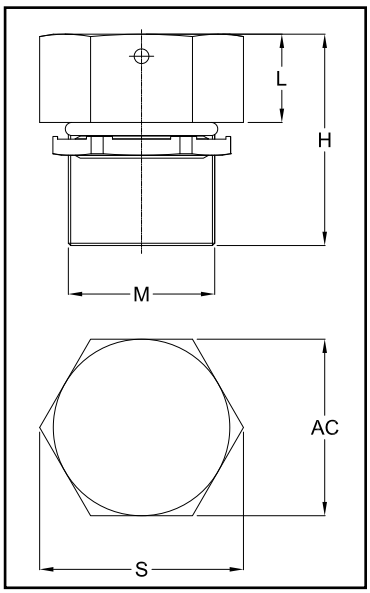
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Attestation of Conformity<br>IECEx Certificate<br>UKCA Ex Attestation of Conformity<br>CB Testreport<br>CB Certificate<br>DNVGL certificate<br>NEMKO certificate<br>Lloyds Register Certificate<br>POLSKIREJ certificate<br>UKCA Ex Certificate<br>16-AV4BO-0265U.<br>CE Declaration of Conformity<br>ATEX Certificate<br>UKCA declaration of conformity<br>Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| Engineering Data | Zuken E3.S |
| User Documentation | NTI WDU/WPE 2.5.pdf<br>StorageConditionsTerminalBlocks |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

Automatic drainage and breather valves ECDE series are suitable to be used on increased safety, intrinsically safety or watertight enclosures to facilitate the elimination of condensation or vapors developed inside. Thanks to a precise mechanism, it is possible to obtain a continuous drainage and breathing of the junction box, protecting it from the possible formations of internal condensation and thus avoiding the periodic manual discharge, while ensuring a suitable IP degree of protection.



| | | |
|---|---|---|
| **Classification:** 2014/34/UE | Group II | Category 2GD |
| **Installation:** EN 60079.14 | zone 1 - zone 2 (Gas) | zone 21 - zone 22 (Dust) |
| **Marking:** | CE 0722 Ex II 2 GD Ex eb IIC Gb Ex tb IIIC Db IP66 | |
| **Certification:** | ATEX CML 16 ATEX 1351X | |
| | IECEx IECEx CML16.0124X | All IEC Ex certification data can be downloaded at www.elfit.com |
| **Standards:** | CENELEC EN 60079-0: 2012, EN 60079-7: 2015, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE<br>IEC60079-0: 2011, IEC 60079-7: 2015, IEC60079-31: 2013 Directive RoHS 2011/65/UE | |
| **Ambient temp.:** | -60°C +150°C | |
| **Degree of protection:** | IP66 | |

Certificates are available on www.elfit.com




## SELECTION TABLE OF ECDE VALVES

| Code In stainless steel AISI 316 | Code In nickel-plated brass | Thread | Dimensions in mm | | | | Use |
|---|---|---|---|---|---|---|---|
| | | M | H* | L | S | AC | |
| ECDE-B1S | ECDE-B1B | M20x1,5 | 26 | 13 | 28 | 24 | Breather |
| ECDE-B2S | ECDE-B2B | M25x1,5 | 26 | 13 | 35 | 30 | Breather |
| ECDE-D1S** | ECDE-D1B** | M20x1,5 | 26 | 13 | 28 | 24 | Breather/Drain |
| ECDE-D2S** | ECDE-D2B** | M25x1,5 | 26 | 13 | 35 | 30 | Breather/Drain |

**TECHNICAL NOTES:**

- * *Different lengths for thick junction boxes upon request.*
- ** *When the ECDE are intended for use as a drain, they must be installed at the bottom of the enclosure*

PART 2 – CERTIFICATION DOSSIER

• Acceptance

- Internal and External Inspection reports (Vendors) - refer to section Test Report
- Conformity with technical specification certificates - Doc. No. COV2402708/01

CORTEM® GROUP

To be sure to be safe.

# VENDOR CONFORMANCE CERTIFICATE

No. COV2402708/01

| | | |
|---|---|---|
| **Customer** | : | ROSETTI MARINO S.p.A. |
| **P. Order** | : | 1724001299 rev.1 |
| **Cortem Job** | : | COV2402708 |
| **Material** | : | Junction Boxes |
| **Date** | : | 21/08/2024 |

We hereby declare that all materials relevant to the subject purchase order conform to contractual quality requirements including applicable codes, standards and specifications, have satisfactorily passed our technical and quality inspection requirements and have therefore been approved for shipment.

Cortem SpA

cortem S.p.a.
UFFICIO PROGETTI COLLAUDI
PROJECT / INSPECTION DEPT.
21-08-2024

PART 2 – CERTIFICATION DOSSIER

- Manufacturing and testing Record

- Materials certificates (including consumables, such as electrodes and paint)

- Quality Control plan /Inspection & test Plan / Inspection Reports - Doc. No. 1724001299-QC-ITP-00002

- Compliance with CE Marking, ATEX, and PED requirements as relevant to the scope of supply. - Atex Register Doc. No. 1724001299-IN-LIS-00005

MARCEGAGLIA SPECIALTIES

Type: Inspection Certificate 3.1 AD-2000 EN10204 | Number: 10723256125 | Issued On: 12/04/2023

- QMS approved acc AD-2000 W0 with Cert 01 202 I/Q-08 5131 by TUV Rheinland (0035), cert. PED 2014/68/UE Annex I §4.3 by TUV Rheinland (0035)
- Material acc. AD2000 W2 - W10 in ref to EN10028-7
- Material conforming to NACE MR0175/MR0103 - ISO15156-1/ISO15156-3

| Customer | Consignee | | | | |
|---|---|---|---|---|---|
| NS.DEP.C/O ACCIAI VENDER SPA<br>VIA NOBEL 4A-Q.RE IND.LE S.P.I<br>43100 PARMA IT | NS.DEP.C/O ACCIAI VENDER SPA<br>VIA NOBEL 4A-Q.RE IND.LE S.P.I<br>43100 PARMA IT | Delivery Nn<br>Of<br>Delivery note nr | 8920119129<br>12/04/2023<br>2507001266 | Quality Control<br>Q.M.D./Q.M. A.Venturini<br>Plant Of Gazoldo | Pages<br>1/1 |

| Material | Norm/Grade | Order Nr | Client Order |
|---|---|---|---|
| **50602249** | **EN10028-7,EN10088-2,EN10088-4,ASTM A240, ASME SA240, ASTMA480, ASME SA480** | **1591882569/120** | **2E/0000002** |
| Description<br>**CXF02C 1,50 x 1250 4404/316L SR 6/15 FINITURA "2B"** | Quality/Qualità<br>**X2CrNiMo17-12-2, WNR1.4404, 316L / AISI316, X5CrNiMo17-12-2, WNR1.4401, 316** | | Client Date<br>**31/01/2023** |

| Item | Identification Nr | Heat | Quantity | Dimensional tolerances/ | Steel Processing/ | Mark Tester/ |
|---|---|---|---|---|---|---|
| 1 | 23YT002848 | 0546741 | 11120 KG | EN9445-2 | Electric arc furnace VOD/AOD, continuous casting, heat threatment /annealing at 1050°C, forced air cooling | - Organization inspection: CQ3 |
| | | | | | - ASME norms acc. Sec. II Part A Ed. 2021 | Terms of Delivery/ |

| Identification Nr | Chemical Type | Mark | C (%) | Si (%) | Mn (%) | P (%) | S (%) | Cr (%) | Ni (%) | Mo (%) | N (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 23YT002848 | Product | 23H2002182 | .018 | .310 | 1.020 | .0330 | .0010 | 16.540 | 10.030 | 2.020 | .0420 |

| Identification Nr | Test position | Test direction | Mark | Rm [N/mm²] | Rp 0.2 [N/mm²] | RP 1 [N/mm²] | A80 (%) | A50 (%) | HRB | HRB2 |
|---|---|---|---|---|---|---|---|---|---|---|
| 23YT002848 | B | T | 23H2002182 | 597 | 288 | 357 | 50.1 | 53.2 | 83 | 83 |

| Test Position/Posizione Prova | Test Direction/Direzione Prova | Remarks about tensile test: | Other controls: |
|---|---|---|---|
| B=Coil End<br>C=Coil middle<br>T=Coil head | T=Transverse Direction<br>L=Longitudinal Direction | - Confirmation of adequate degree of reliability for the uniformity over the strip length with certificate issued by TÜV Rheinland Group dt. June 19, 2019<br>- Tensile test according EN ISO 6892-1 B / A-SA 370 | - Dimensions within tolerances, spectrometrical identity test OK<br>- Corrosion Test EN ISO3651-2 Method A and ASTM A262 pract.E OK |

Remarks:
- Surface finish 2B
- We certify that products listed above comply with order requirements
- Document validated acc. EN10204 par. 5
- Norms are intended in the valid edition at the time of the order
- Durability: NPD
- Regulated Substances: NPD
- Intended Uses: Building Constructions or Civil Engineering
- DoP available at http://www.marcegaglia.com/brochure/e/quality/dop.html
-surface finish 2B

UKCA 1244 22 MARCEGAGLIA SPECIALTIES v. Bresciani, 16 46040 - Gazoldo D. I. Mantova - Italy EN 10088-4:2009

CE 0474 13 MARCEGAGLIA SPECIALTIES v. Bresciani, 16 46040 - Gazoldo D. I. Mantova - Italy EN 10088-4:2009

Base Load Power Hub (BLPH)

| ROSETTI MARINO | |
|---|---|
| 1 | NO COMMENTS - APPROVED - WORK MAY PROCEED |
| 2 | MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED |
| 3 | MAJOR COMMENTS – REJECTED – DO NOT PROCEED |
| 4 | APPROVAL NOT REQUIRED |
| ***NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.*** | |
| Sign | Date |
| ROSETTI MARINO S.p.A. Offshore Lifting Quality Control Dept. | **23/08/2024** |

INS JB

# INSPECTION AND TEST PLAN

Document Number: 1724001299-IN-DS-00004

Document Class: 2

| Rev. | Date | Description | Prepared | Reviewed | Approved |
|---|---|---|---|---|---|
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| 01 | 07/08/2024 | Accepted for Construction (AFC) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |
| 00 | 22/07/2024 | Issue for Review (IFR) | M.MENEGUZZI | S.ZIANI | A.DELLA RICCA |

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| 5 | INSPECTION AND TEST PLAN | X | X | | | | | | |


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## References

| Tag Number | Tag Description | Model Number | Equipment Manufacturer Serial Number |
|---|---|---|---|
| 00-JE-11005 | Junction Box | CTB262616S1 | 24/87925 |
| 00-JE-12002 | Junction Box | CTB262616S1 | 24/87925 |
| 00-JE-12003 | Junction Box | CTB262616S1 | 24/87925 |
| 950-JE-01103 | Junction Box | CTB262616S1 | 24/87925 |
| 950-JE-03103 | Junction Box | CTB262616S1 | 24/87925 |
| 950-JE-04102 | Junction Box | CTB262616S1 | 24/87925 |
| SPARE | Junction Box | CTB262616S1 | 24/87925 |
| SPARE | Junction Box | CTB262616S1 | 24/87925 |
| 950-JE-05102 | Junction Box | CTB262616S1 | 24/87925 |
| 950-JE-06102 | Junction Box | CTB262616S1 | 24/87925 |
| SPARE | Junction Box | CTB262616S1 | 24/87925 |
| 00-JE-21002 | Junction Box | CTB262616S1 | 24/87925 |
| 950-JE-01101 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-01102 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-03102 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-04101 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-04201 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-04205 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-06101 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-06201 | Junction Box | CTB262616S1 | 24/87926 |
| 950-JE-02103 | Junction Box | CTB262616S1 | 24/87926 |
| 00-JE-11002 | Junction Box | CTB303020S1 | 24/87928 |
| 00-JE-11004 | Junction Box | CTB303020S1 | 24/87928 |
| 00-JE-12005 | Junction Box | CTB303020S1 | 24/87928 |
| 00-JE-21001 | Junction Box | CTB303020S1 | 24/87929 |
| 00-JE-11001 | Junction Box | CTB484820S1 | 24/87932 |
| 00-JE-11003 | Junction Box | CTB484820S1 | 24/87932 |
| 00-JE-12001 | Junction Box | CTB484820S1 | 24/87932 |
| 00-JE-12004 | Junction Box | CTB484820S1 | 24/87932 |
| 00-JE-12006 | Junction Box | CTB484820S1 | 24/87932 |
| 00-JE-22001 | Junction Box | CTB484820S1 | 24/87933 |
| 00-JE-22002 | Junction Box | CTB484820S1 | 24/87934 |
| 950-JE-02101 | Junction Box | CTB453820S1 | 24/87931 |
| 950-JE-02102 | Junction Box | CTB453820S1 | 24/87931 |
| 950-JE-03101 | Junction Box | CTB453820S1 | 24/87931 |
| 950-JE-05101 | Junction Box | CTB453820S1 | 24/87931 |
| 00-JE-13001 | Junction Box | CTB262616S1 | 24/87927 |
| 00-JE-23002 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-01104 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-02104 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-03104 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-04103 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-04203 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-05103 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-06103 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-06203 | Junction Box | CTB262616S1 | 24/87927 |
| 950-JE-07101 | Junction Box | CTB262616S1 | 24/87927 |
| 00-JE-13001 | Junction Box | CTB303020S1 | 24/87930 |
| 00-JE-13002 | Junction Box | CTB303020S1 | 24/87930 |
| 00-JE-23001 | Junction Box | CTB303020S1 | 24/87930 |
| 950-JE-04207 | Junction Box | CTB303020S1 | 24/87930 |
| 950-JE-04204 | Junction Box | CTB262616S1 | 24/87924 |
| 950-JE-04208 | Junction Box | CTB262616S1 | 24/87924 |
| 950-JE-06204 | Junction Box | CTB262616S1 | 24/87924 |

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**Email: infomilano@cortemgroup.com Web site www.cortemgroup.com**

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| | | | | |
|---|---|---|---|---|
| Quality Control Plan N°: 1724001290-QC-ITP-00002 | Purchase Order: 1724001290 | Project: 123A90A - Base Load Power Hub Platform | | |
| Material: Junction Box | Cortem Ref:COV2402693 | Date: 07/08/2024 | Rev.: 01 | Issued by: PMD |

## 1 Checks and tests

1.1 The checks and tests shall be at least those indicated in activities herein below mentioned.Other test and checks may be defined at the inspection time (if necessary).
1.2 The scope of the tests is to verify, by examining the documents and/or drawings, the compliance with the client's requests and to detect any fault in materials and construction.
1.3 The checks and tests shall be carried out by the authority indicated in columns A, B, C.

## 2 Reference codes

2.1 A : tests performed by Cortem
B: tests performed by Rosetti Marino
C: tests performed by Crosswind

2.2 H : hold point
W : witness
R : review of the documentation
NA : not applicable

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| N° | Activity | Controlling document | Acceptance criteria | Frequency of test during manufacturing | Tests performed by Cortem "A" | | | Frequency of test during inspection | Tests performed by Client "B" | | | Tests performed by others "C" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | H | W | R | | H | W | R | H | W | R |
| 1 | Compliance with the drawings a/o catalogue data | drawings doc. No. 1724001299-IN-DA-00003 | No differencies of mounting with drawings or catalogue | 100% | x | | | 1 ea. for item | | | x | | | x |
| 2 | Visual & Dimensional check | drawings doc. No. 1724001299-IN-DA-00003 | No differencies of dimensions with drawings or catalogue | 100% | x | | | 1 ea. for item | | x | | | x | |
| 3 | Check of quantity | drawings doc. No. 1724001299-IN-DA-00003 | No differencies of quantity with purchase order | 100% | x | | | 100% | | x | | | x | |
| 5 | Check of size of threaded hubs | drawings doc. No. 1724001299-IN-DA-00003 | No differencies with the hubs indicated on drawings or catalogue | 10% | x | | | 1 ea. for item | | x | | | x | |
| 6 | Check of painting ( visual & color ) | Cortem std. painting specification | painting colour and protection devices must be as per specification | 100% | n/a | n/a | n/a | 1 ea. for item | n/a | n/a | n/a | n/a | n/a | n/a |
| 7 | Checks of correct installation of components | drawings doc. No. 1724001299-IN-DA-00003 | Components must be installed as per Ex standard | 100% | x | | | 1 ea. for item | | x | | | x | |
| 8 | Check of protection degree | drawings doc. No. 1724001299-IN-DA-00003 | Protection degree must be as per minimum standard specification requirements | 100% | x | | | 1 ea. for item | | | x | | | x |

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| | Activity | Controlling document | Acceptance criteria | Frequency of test during manufacturing | Tests performed by Cortem "A" | | | Frequency of test during inspection | Tests performed by Client "B" | | | Tests performed by others "C" | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | H | W | R | | H | W | R | H | W | R |
| 9 | Check of nameplates a/o marking | drawings doc. No. 1724001299-IN-DA-00003 | No differencies of nameplates engraving with the drawings | 100% | x | | | 1 ea. for item | | x | | | | x |
| 10 | Check of explosion-proof certificates | Ex-Certificate included in Doc. No. 1724001299-IN-LIS-00005 | All components must be Ex certified | 100% | | | x | 100% | | | x | | | x |
| 11 | Dielectric test ( SEE TAB BELOW ) | I 37.04 FAT procedures | shall not trip when the output current is less than 100mA | 100% | x | | | 1 ea. for item | | x | | | | x |
| 12 | Electrical performance | I 37.04 FAT procedures | No deviations from wiring diagrams | 100% | n/a | n/a | n/a | 1 ea. for item | n/a | n/a | n/a | n/a | n/a | n/a |
| 13 | Insulation resistance measurement | I 37.04 FAT procedures | Insulation resistance must be 1000Ω/V minimum | 100% | x | | | 1 ea. for item | | x | | | | x |
| 14 | Test of surface treatments | applicable standards | Minimum thickness of treatments must be as per specification | 100% | x | | | 1 ea. for item | | x | | | | x |
| 15 | Test of mechanical operations | drawings doc. No. 1724001299-IN-DA-00003 | All handles for switches and/or mechanical interlocks must properly work | 100% | n/a | n/a | n/a | 1 ea. for item | n/a | n/a | n/a | n/a | n/a | n/a |

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APPLICABLE STANDARDS:

- □ IEC/EN 60079-0 (General rules)
- □ IEC/EN 60079-1 (Ex-d type of protection)
- □ IEC/EN 60079-7 (Ex-e type of protection)
- □ IEC/EN 60079.11 (Ex-i type of protection)
- □ IEC/EN 60079-15 (Ex-n type of protection)
- □ IEC/EN 61439-1 (Low voltage switchgear & controlgear assemblies)
- □ IEC/EN 61439-2 (Low voltage switchgear & controlgear assemblies - Power switchgear & controlgear assemblies)
- □ IEC/EN 60529 (Mechanical protection degree)

(*) applicable only for Ex-d materials/components.
(**) overpressure test is performed only once during manufacture.

**TAB.1 - Test for Power Circuit**

| Rated insulation voltage Ui | Dielectric test voltage a.c. |
|---|---|
| Ui<60 | 1000 |
| 60<Ui<300 | 1500 |
| 300<Ui<690 | 1890 |
| 690<Ui<800 | 2000 |
| 800<Ui<1000 | 2200 |

**TAB.2 - Test for auxiliary Circuit**

| Rated insulation voltage Ui | Dielectric test voltage a.c. |
|---|---|
| Ui<12 | 250 |
| 12<Ui<60 | 500 |
| Ui>60 | 2Ui+1000 with a minimun of 1500 |

**TAB.3 - All Cortem products**

The test voltage ( 1800Vac ) must be applied between all the active parts and the earth of the apparatus for 10"

# Base Load Power Hub (BLPH)

ATEX REGISTER

INS JB

Document Number: 1724001299-IN-LIS-00005

Document Class: 2

ROSETTI MARINO

| | |
|---|---|
| 1 | NO COMMENTS - APPROVED - WORK MAY PROCEED |
| 2 | MINOR COMMENTS - REVISE AND RESUBMIT - WORK MAY PROCEED |
| 3 | MAJOR COMMENTS – REJECTED – DO NOT PROCEED |
| 4 | APPROVAL NOT REQUIRED |

*NOTE: Approval doesn't relieve the supplier from mandatory compliance with contractual documents and specifications. Comments made do not imply acceptance of any cost or delivery impact.*

| Sign | Date |
|---|---|
| V. Barratta | 04-09-2024 |

| Rev. | Date | Description | Prepared | Reviewed | Approved |
|---|---|---|---|---|---|
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| 02 | 29/08/2024 | Accepted for Construction (AFC) | M. MENEGUZZI | S.ZIANI | A. DELLA RICCA |
| 01 | 07/08/2024 | Accepted for Construction (AFC) | M. MENEGUZZI | S.ZIANI | A. DELLA RICCA |
| 00 | 22/07/2024 | Issue for Review (IFR) | M. MENEGUZZI | S.ZIANI | A. DELLA RICCA |

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| No. | Revision | Tag Number | Description | Location | Manufacturer | Model Type Catalogue Number | Serial Number | ATEX Certification Marking | Reference Document | ATEX Certificate Number | Installation Zone | Notes / Comments | P.O. | Vendor | Skid / Package | Barrier Calculation Ref. | Non-Electrical Equipment | Special Conditions of safe use Applicable |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 00 | 00-JE-11005 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 2 | 00 | 00-JE-12002 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 3 | 00 | 00-JE-12003 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 4 | 00 | 950-JE-01103 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 5 | 00 | 950-JE-03103 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 6 | 00 | 950-JE-04102 | Junction Box | Lower Deck (B-400) Ext. | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 7 | 00 | 950-JE-05102 | Junction Box | Lower Deck | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 8 | 00 | 950-JE-06102 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 9 | 00 | 00-JE-21002 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87925 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 1 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 10 | 00 | 950-JE-01101 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 11 | 00 | 950-JE-01102 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 12 | 00 | 950-JE-03102 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 13 | 00 | 950-JE-04101 | Junction Box | Lower Deck | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 14 | 00 | 950-JE-04201 | Junction Box | Lower Deck (B-200) | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 15 | 00 | 950-JE-04205 | Junction Box | Lower Deck (B-300) | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 16 | 00 | 950-JE-06101 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 17 | 00 | 950-JE-06201 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 18 | 00 | 950-JE-02103 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87926 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 2 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 19 | 00 | 00-JE-11002 | Junction Box | Upper Deck | Cortem Spa | CTB303020S1 | 24/87928 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 3 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 20 | 00 | 00-JE-11004 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB303020S1 | 24/87928 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 3 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 21 | 00 | 00-JE-12005 | Junction Box | Upper Deck | Cortem Spa | CTB303020S1 | 24/87928 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 3 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 22 | 00 | 00-JE-21001 | Junction Box | Upper Deck | Cortem Spa | CTB303020S1 | 24/87929 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 4 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 23 | 00 | 00-JE-11001 | Junction Box | Upper Deck | Cortem Spa | CTB484820S1 | 24/87932 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 5 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 24 | 00 | 00-JE-11003 | Junction Box | Upper Deck | Cortem Spa | CTB484820S1 | 24/87932 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 5 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 25 | 00 | 00-JE-12001 | Junction Box | Upper Deck | Cortem Spa | CTB484820S1 | 24/87932 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 5 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 26 | 00 | 00-JE-12004 | Junction Box | Upper Deck | Cortem Spa | CTB484820S1 | 24/87932 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 5 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 27 | 00 | 00-JE-12006 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB484820S1 | 24/87932 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 5 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 28 | 00 | 00-JE-22001 | Junction Box | Upper Deck | Cortem Spa | CTB484820S1 | 24/87933 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 6 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 29 | 00 | 00-JE-22002 | Junction Box | Upper Deck | Cortem Spa | CTB484820S1 | 24/87934 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 7 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 30 | 00 | 950-JE-02101 | Junction Box | Upper Deck | Cortem Spa | CTB453820S1 | 24/87931 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 8 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 31 | 00 | 950-JE-02102 | Junction Box | Upper Deck | Cortem Spa | CTB453820S1 | 24/87931 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 8 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 32 | 00 | 950-JE-03101 | Junction Box | Upper Deck | Cortem Spa | CTB453820S1 | 24/87931 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 8 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 33 | 00 | 950-JE-05101 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB453820S1 | 24/87931 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 8 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 34 | 00 | 00-JE-13001 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 35 | 00 | 00-JE-23002 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 36 | 00 | 950-JE-01104 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 37 | 00 | 950-JE-02104 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 38 | 00 | 950-JE-03104 | Junction Box | Upper Deck | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 39 | 00 | 950-JE-04103 | Junction Box | Lower Deck (B-400) Ext. | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 40 | 00 | 950-JE-04203 | Junction Box | Lower Deck (B-200) | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 41 | 00 | 950-JE-05103 | Junction Box | Lower Deck | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 42 | 00 | 950-JE-06103 | Junction Box | Lower Deck (B-100) Ext. | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 43 | 00 | 950-JE-06203 | Junction Box | Lower Deck (B-100) | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 44 | 00 | 950-JE-07101 | Junction Box | Transition Piece | Cortem Spa | CTB262616S1 | 24/87927 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 9 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 45 | 00 | 00-JE-13001 | Junction Box | Upper Deck | Cortem Spa | CTB303020S1 | 24/87930 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 10 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 46 | 00 | 00-JE-13002 | Junction Box | Upper Deck | Cortem Spa | CTB303020S1 | 24/87930 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 10 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 47 | 00 | 00-JE-23001 | Junction Box | Upper Deck | Cortem Spa | CTB303020S1 | 24/87930 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 10 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 48 | 00 | 950-JE-04207 | Junction Box | Lower Deck (B-300) | Cortem Spa | CTB303020S1 | 24/87930 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 10 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 49 | 00 | 950-JE-04204 | Junction Box | Lower Deck (B-200) | Cortem Spa | CTB262616S1 | 24/87924 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 11 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 50 | 00 | 950-JE-04208 | Junction Box | Lower Deck (B-300) | Cortem Spa | CTB262616S1 | 24/87924 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 11 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |
| 51 | 00 | 950-JE-06204 | Junction Box | Lower Deck (B-100) | Cortem Spa | CTB262616S1 | 24/87924 | Ex eb IIC T6 Gb | GAD No. 1724001299-IN-DA-00003 item 11 | CESI 03 ATEX 333 | Zone 1 | NA | 1724001299 | Cortem Spa | N.A. | N.A. | NO | N.A. |

CESI

# CERTIFICATE

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CESI-ATEX

Schema di certificazione

ACCREDIA
PRD N. 018B
Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
*Signatory of EA, IAF and ILAC Mutual Recognition Agreements*

ATEX B6003477-1-EN

[1] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 2014/34/EU**

[3] Supplementary EU-Type Examination Certificate number:

**CESI 03 ATEX 333 /05**

[4] Product: **Terminal boxes series CTB, CSTB, SA and CTBE**

[5] Manufacturer: **COR.TEM S.p.A.**

[6] Address: Via Aquileia, 10 – 34070 Villesse (GO) – Italy.

[7] This supplementary certificate extends EC–Type Examination Certificate CESI 03 ATEX 333 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

[8] CESI, notified body n. 0722 in accordance with Article 17 of the Directive 2014/34/EU of the Parliament and Council of 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report n. EX- C0007256.

[9] In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

| | |
|---|---|
| Ex II 2 GD | **Ex eb IIC T6, T5, T4 Gb**<br>**Ex tb IIIC T75°C, T110°C Db**<br>**IP66** |
| | *or* |
| Ex II 2 GD | **Ex ia IIC T6, T5, T4 Gb**<br>**Ex ia IIIC T75°C, T110°C Db**<br>**IP66** |
| | *or* |
| Ex II 2 GD | **Ex eb ia IIC T6, T5, T4 Gb**<br>**Ex tb ia IIIC T75°C, T110°C Db**<br>**IP66** |

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**Date** 2020.05.22 - Translation issued the 2020.05.22

| **Prepared** | **Verified** | **Approved** |
|---|---|---|
| Alessandro Fedato | Mirko Balaz | Roberto Piccin |

[13] # Schedule

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

[15] **Description of the variation to the product**

- Updating to EN IEC 60079-0:2018 Standard.
- To the Increased safety Terminal boxes **SA../P** series made in polyester resin, new colours for boxes were added.
- The Increased safety Terminal boxes **SA..**, **SAG..**, **CTB**** and **CSTB..** series can be supplied with external painting.
- Terminal boxes **SA..** and **SAG..** series made of aluminium alloy can be supplied with internal anticondensation/antifungal painting and draining and breathing valve ECD-2.. and ECDE.. series.

**Description of equipment**

Increased safety Terminal boxes **SA..**, **SAG..**, **CTB..**, **CSTB..** and **CTBE..** series are used to hold Ex eb and/or Ex ia terminal blocks for rail mounting, scope of separated ATEX certification. They consist in enclosures made of Aluminium alloy, Polyester resin glass fibre reinforced in different colours or Stainless steel for **SA..** series, while **CTB..**, **CSTB..** and **CTBE..** series are made of Stainless steel only.
The covers of boxes are fixed to the bodies with Stainless steel screws, whose number depends on the size and on possible accessories. The degree of protection IP66 is guarantee by the EPDM/SBR or Silicon gaskets placed between the covers and the body.
The walls and the bottom of the boxes can be drilled with maximum size and maximum number of holes as specified in the manufacturer documents. The cable glands or plugs, with separate ATEX certificate, are mounted using locknut and gasket.
Each enclosure is provided with internal and external earthing screw or bolt. Each conductor should be provided with terminal lugs.
The products can be supplied with external painting. In this case a warning label shall be applied regarding the risk of electrostatic charge. Furthermore, on request, can be applied an internal anticondensation/antifungal painting and draining and breathing valve ECD-2** or ECDE series, scope of separate certification.
The enclosures can be equipped with the terminal blocks specified into manufacturer documents or with other terminal blocks scope of separated ATEX certification with identical characteristics.

**Electrical characteristics**

| | **Standard applications** | **Signal circuits applications** | |
|---|---|---|---|
| | | **T6/T75°C with max. $T_{amb}$ +60°C** | **T4/T110°C with max. $T_{amb}$ +85°C** |
| Rated voltage | 1000 Vac/dc | - | - |
| Rated current | 312 A | 1 A for **Ex eb** exec.<br>100 mA for **Ex ia** exec. | 10 A for **Ex eb** exec.<br>100 mA for **Ex ia** exec. |
| Rated frequency | 50/60 Hz | - | - |
| Terminal section | 1.5 ÷ 300 $mm^2$ | - | - |

Degree of protection (EN 60529): IP 66.

The above specified ratings are maximum values admitted. Effective values will be function to the electrical equipment/component used from case to case. Depending on the system conditions, the operating mode, the utilization category, etc.. the manufacturer will define these ratings which will be within the range of these limiting values and will comply with the relevant Standards.
The type and number of terminals which can be installed in the various enclosures, is indicated in detail together with the maximum admissible current, in the manufacturer documentation. When selecting the permitted current for cross section, the maximum current admitted for the terminals, connecting cables or conductors should be taken into consideration.

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

**Operative temperature ranges:**

Table 1.

| **Standard temperature ranges** | | | | | |
|---|---|---|---|---|---|
| **Enclosure material** | **Type of gasket for enclosure** | **Ambient temperature** | **Temperature class** | **Max. surface temp.** | **Max. service temperature of terminals (*)** |
| Aluminium alloy, Stainless steel, Polyester resin | **VMQ SPS 060** (SA**, SA**/P) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates) **EPDM/SBR** (SA**SS bodies) | -40°C +40°C | T6 | T75°C | +80°C |
| | | -40°C +55°C | T5 | T75°C | +95°C |

Table 2.

| **Temperature range for Signal circuits** (max. 1A for not Ex i circuits, max. 100mA for Ex i circuits) | | | | | |
|---|---|---|---|---|---|
| **Enclosure material** | **Type of gasket for enclosure** | **Ambient temperature** | **Temperature class** | **Max. surface temp.** | **Max. service temperature of terminals (*)** |
| Aluminium alloy, Stainless steel, Polyester resin | **VMQ SPS 060** (SA**, SA**/P) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates) **EPDM/SBR** (SA**SS bodies) | -40°C +60°C | T6 | T75°C | +80°C |

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

Table 3.

| **Low and high temperature ranges** | | | | | |
|---|---|---|---|---|---|
| **Enclosure material** | **Type of gasket for enclosure** | **Ambient temperature** | **Temperature class** | **Max. surface temp.** | **Max. service temperature of terminals (*)** |
| Aluminium alloy, Stainless steel | **VMQ SPS 060** (SA**) **VMQ MG1077N40** (SA**SS bodies) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates) | -60°C +40°C | T6 | T75°C | +80°C |
| | | -60°C +55°C | T5 | T75°C | +95°C |
| | | -60°C +65°C(**) | T5 | T75°C | +95°C |
| Polyester resin | **VMQ SPS 060** (SA**/P) | -40°C +65°C(**) | T5 | T75°C | +95°C |

Table 4.

| **High temperature range for Signal circuits** (max. 10A for not Ex i circuits, max. 100mA for Ex i circuits) | | | | | |
|---|---|---|---|---|---|
| **Enclosure material** | **Type of gasket for enclosure** | **Ambient temperature** | **Temperature class** | **Max. surface temp.** | **Max. service temperature of terminals (*)** |
| Stainless steel | **VMQ MG1077N40** (SA**SS bodies) **SILICONCELL** (CTB**, CTBE** covers, SA**SS, CTB** gland plates) | -60°C +85°C | T4 | T110°C | +120°C |

(*) – The maximum Service temperature of terminals installed inside the enclosures should be equal or greater than the temperature indicated into the tables shown above.

(**) – The maximum dissipated power and rated current admitted for these temperature ranges should be decreased applying the decreasing factors as specified into Table 5.

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

**Maximum dissipated power and rated current admitted**
In the table below are shown the Power (W) and Current (A) decreasing factors applicable to remain within the Temperature class declared in the manufacturer documents.

Table 5.

| Enclosure Material | Temperature Class | Ambient Temperature | Power decreasing factor | Current decreasing factor |
|---|---|---|---|---|
| Polyester resin | T6 | +40°C | None | None |
| | T5 | +55°C | None | None |
| | T5 | +60°C | **-25%** | **-15%** |
| Aluminium alloy or Stainless Steel | T6 | +40°C | None | None |
| | T5 | +55°C | None | None |
| | T5 | +65°C | **-25%** | **-15%** |

***Identification of Terminal boxes SA**, SAG**, CTB**, CSTB** and CTBE**:***

**SA** □ □

Code of the series
**SA**
**SAG**

Size of boxes (**301410, 473018** etc)

Material & Number of gland plates:
**Blank** for aluminium alloy boxes
**/P** for polyester resin boxes
**SS** for stainless steel boxes without gland plates
**SSC** for stainless steel boxes with locking devices on cover and without gland plates.
**SSF1, SSF2, SSF3, SSF4** for stainless steel boxes with 1, 2, 3 or 4 gland plates.
**SSCF1, SSCF2, SSCF3, SSCF4** for stainless steel boxes with locking devices on cover and with 1, 2, 3 or 4 gland plates.

**C***** □ □

Code of the series:
**CTB**: Standard boxes
**CSTB**: CTB boxes without hinges

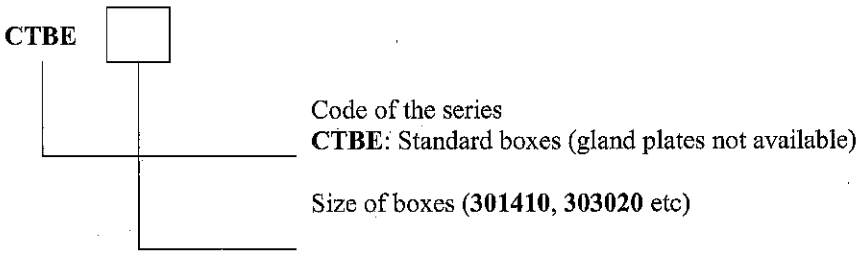
Boxes size *(303020, 503516 etc)*

Material & Number of gland plates:
**S1, S2, S3, S4** for stainless steel boxes with 1, 2, 3 or 4 gland plates.
**Blank** for stainless steel boxes without gland plates
**C, CS1, CS2, CS3, CS4** boxes with locking device on cover

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**




Other suffix can be added on the code for particular configurations.

***Warning labels:***

- *"Do not open when energized".*
- For Terminal boxes SA.., CTB.., CSTB.. and CTBE.. series with temperature class T4: *"Use cables suitable for a minimum temperature of 110°C".*
- For Terminal boxes SA.., CTB.., CSTB.. and CTBE.. series with temperature class T5: *"Use cables suitable for a minimum temperature of 90°C".*
- For products complete with external painting made in non-conductive material and for GRP materials different to standard black coloured: *"Warning - Potential electrostatic charging hazard – see instructions".*

[16] **Report n.** EX- C0007256

**Routine tests**
None.

[17] **Special conditions for safe use (X)**
None.

**Installation conditions**

- Accessories used for cable entries and for unused holes shall have a degree of protection IP66 and shall be suitably certificated.
- When selecting the admitted current for cross section, the maximum permitted current for the terminals and the connecting cable or conductor should be taken into consideration. The terminals shall be fitted in accordance with the manufacturer's instructions and when installed, they shall have the minimum clearance and creepage distances required by Table 1 of EN 60079-7 Standard.
- For terminal boxes with type of protection Ex ia the distances between Intrinsic safety circuits shall be according to EN 60079-11 Standard. Intrinsically safe circuits shall be clearly identified. Where a colour is used for this purpose, it shall be light blue for the intrinsically safe connections.
- The service temperature range of the terminals used shall be taken into consideration.
- Installation instruction documents provides details of dielectric strength routine test of 2U+1000 VAC with a minimum value of 1500 VAC between the supply terminals and earth.

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[13] **Schedule**

[14] **SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE n. CESI 03 ATEX 333 /05**

[18] **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements has been assured by compliance to the following standards:

EN IEC 60079-0: 2018 Explosive atmospheres – Part 0: Equipment - General requirements;

EN 60079-7: 2015 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosure "d";

EN 60079-11: 2012 Explosive atmospheres – Equipment protection by intrinsic safety "i";

EN 60079-31: 2014 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t".

[19] **Descriptive documents** (prot. EX- C0007259)

| | | | |
|---|---|---|---|
| - *Technical note A4-7483 (pg. 13) | rev.0 | dated | 21.10.2019 |
| - *Safety, maintenance and mounting instructions F-408 (pg. 20) | rev.1 | dated | 21.10.2019 |
| - *Declaration of Conformity Facsimile no. 0048 | | dated | 21.10.2019 |
| - *Annex (8 sheets) | rev.0 | dated | 21.10.2019 |
| - Drawing no. A1-5703 (4 sheets) | rev.1 | dated | 21.10.2019 |
| - Drawing no. A1-6266 | rev.0 | dated | 10.04.2017 |
| - Drawing no. A3-5704 (3 sheets) | rev.1 | dated | 10.04.2017 |
| - Drawing no. A3-6267 (2 sheets) | rev.0 | dated | 10.04.2017 |
| - Tables for max. number of conductors no. A4-5050 (35 sheets) | rev.1 | dated | 10.04.2017 |
| - Annex (18 sheets) | rev.0 | dated | 10.04.2017 |
| - Drawing no. A4-4274 (12 sheets) | rev.0 | dated | 10.10.2003 |
| - Drawing no. A3-4658 | rev.0 | dated | 10.10.2003 |
| - Drawing no. A3-4677 | rev.0 | dated | 10.10.2003 |
| - Drawing no. A4-4129 | rev.0 | dated | 26.06.2000 |
| - Drawing no. A3-5049 (2 sheets) | rev.0 | dated | 18.03.2007 |
| - Drawing no. A4-5258 (13 sheets) | rev.0 | dated | 15.02.2009 |

*Note: An * is included before the title of documents that are new or revised.*

One copy of all documents is kept in CESI files.

Certificate history

| Issue nr | Issue Date | Summary description of variation |
|---|---|---|
| 05 | 2020.05.22 | Updating to standard EN IEC 60079-0:2018. To Terminal boxes SA**/P series made in polyester resin previously assessed, new colours for boxes were added. Terminal boxes SA**, SAG**, CTB** and CSTB** series can be supplied with external painting. Terminal boxes SA**, SAG** and CTB** series made of aluminium alloy can be supplied with internal anticondensation/antifungal painting and draining and breathing valve ECD-2** and ECDE series. |
| 04 | 2017.06.26 | Updating to standards EN 60079-0: 2012+A11:2013, EN60079-7:2015 and EN60079-31:2014. New minimum Tamb -60°C and maximum Tamb +85°C. The enclosures can be drilled on the bottom side. New thicknesses for plain gaskets, gland plates, bodies and covers were added. Plain gaskets made of CR/NBR materials were replaced with plain gaskets made of SBR. New enclosure sizes CTB916130 has been added. New enclosures series CTBE.. have been added. |
| 03 | 2013.07.19 | Updating to standards EN 60079-0 (2012), EN60079-7 (2007), EN60079-11 (2012) and EN60079-31:2014. New min. ambient temperature -40°C for SA../P series. New max. ambient temperature +60°C and Temp. class T6. New thicknesses for aluminium and polyester enclosure covers. New types of Silicon gaskets. |
| 02 | 2009.05.12 | New stainless steel CTB.. enclosure series has been added. |
| 01 | 2008.05.21 | Updating to standards EN 60079-0 (2006), EN60079-7 (2003), EN60079-11 (2007), EN 61241-0 (2006), EN 61241-1 (2004) and EN 61241-11 (2006).<br>New SAG606018 and SA202012 sizes were added. New max. ambient temperature +55, +65 and +80°C. New min. ambient temperature -30°C for SA../P series. |
| 00 | 2003.12.19 | First Issue of the Certificate. |

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PART 2 – CERTIFICATION DOSSIER

- Test Record.

- FAT reports - Doc. No. 521.24

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Cod. Fiscale e P. Iva IT00052120318
*Eco-contributo RAEE assolto ove dovuto n° Registro A.E.E. IT080200000001818*

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= OHSAS 18001 =

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**Resoconto di Collaudo Interno / *Factory Test Report*** ☒
**Resoconto d'Ispezione Cliente / *Client Inspection Report*** ☐

## *Nr. 521.24*

**Cliente**
***Customer:*** ROSETTI MARINO S.p.A.

**Comm.**
***Cortem Job:*** COV2402708

**Ordine**
***P.Order:*** 1724001299 rev.1

**Data Resoconto Collaudo interno**
***Internal Test Report date:*** *21/08/2024*

**Stato dell'ordine** **Parziale** ☐ **A saldo** ☒
***Status of order:*** ***Not complete*** ***Complete***

**Data ispezione terza parte**
***Inspection Report third part date:*** ----

---

**Elenco materiali collaudati**
***List of inspected materials :*** As per list of inspected materials herein attached

---

**Esito dell'ispezione** **Soddisfacente** ☒ **Non conforme** ☐ **Altro** ☐
***Inspection result:*** ***Satisfactory*** ***Not conform*** ***Other***

---

## Descrizione dei controlli e delle prove / *Description of checks and tests*

---

| | | | |
|---|---|---|---|
| **1.Corrispondenza con disegni e/o pagine catalogo** *Compliance with drawings a/o data sheet* | ☒ | **9. Controllo targhette e/o marcatura** *Check of nameplate a/o marking* | ☒ |
| **2. Controllo visivo e dimensionale** *Visual & Dimensional check* | ☒ | **10. Controllo certificazioni Ex-d,Ex-e,Ex-i** *Check of Ex-d, Ex-e, Ex-I certificates* | ☒ |
| **3. Controllo della quantita'** *Check of quantity* | ☒ | **11. Test di rigidità dielettrica** *Dieletric test* **( SEE TAB. 1-2-3 BELOW )** | ☐ |
| **4. Controllo delle lavorazioni** *Check of machining tolerances* | ☐ | **12. Funzionamento elettrico** *Electrical performance* | ☐ |
| **5. Controllo delle filettature** *Check of threads* | ☐ | **13. Resistenza di isolamento** *Insulation resistance >1000 Ω/V minimum* | ☐ |
| **6. Controllo della verniciatura** *Check of painting* | ☒ | **14. Controllo dei trattamenti superficiali** *Test of surface treatments* | ☒ |
| **7. Verifica della corretta installazione dei componenti** *Check of correct installation of components* | ☒ | **15. Funzionamento meccanico** *Test of mechanical operation* | ☐ |
| **8. Verifica del grado di protezione** *Check of protection degree* | ☒ | | |

Ref. Cortem Internal Procedure Instr. No. I 37.04

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## TAB.1 - Test for Power Circuit

Not Applicable

| *Rated insulation voltage Ui* | *Dielectric test voltage a.c.* |
|---|---|
| Ui<60 | 1000 |
| 60<Ui<300 | 1500 |
| 300<Ui<690 | 1890 |
| 690<Ui<800 | 2000 |
| 800<Ui<1000 | 2200 |

## TAB.2 - Test for auxiliary Circuit

Not Applicable

| *Rated insulation voltage Ui* | *Dielectric test voltage a.c.* |
|---|---|
| Ui<12 | 250 |
| 12<Ui<60 | 500 |
| Ui>60 | 2Ui+1000 with a minimun of 1500 |

## TAB.3 - All Cortem products

Not Applicable

The test voltage ( 1800Vac ) must be applied between all the active parts and the earth of the apparatus for 10".

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**Firma**
**Signature** _____

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# List of Inspected Materials



**Cliente:**

ROSETTI MARINO S.P.A.
VIA TRIESTE, 230
RAVENNA RA 48100
ITALIA

**Destinazione:** 102494

ROSETTI MARINO S.P.A.
VIA DEL MARCHESATO, 37 (CANTIERE)
MARINA DI RAVENNA RA 48122
ITALIA

**Causale:** Vendita

**Part.IVA:** IT 00082100397

| | | | |
|---|---|---|---|
| **OdA Cli.** | 1724001299 rev.1 | **Ordine** COV2402708 | **Data Ordine** 27/06/2024 |
| **Mod. Spedizione** | MEZZO VETTORE | **Nr. Revisione** 1 | **Data Revisione** 18/07/2024 |
| **Vettore** | | **Mod. Consegna (INCOTERMS 2020)** | DAP, ITALY |

| Pos | Articolo | Descrizione | U/M | Quantità | Data Consegna Richiesta | Data Consegna Confermata |
|---|---|---|---|---|---|---|
| 1 | CTB262616S1/C2402708/30. | CUST. EX II 2GD EX E IIC | NR | 12,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 2 | CTB262616S1/C2402708/40. | CUST. EX II 2GD EX E IIC | NR | 9,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 3 | CTB303020S1/C2402708/50. | CUST. EX II 2GD EX E IIC | NR | 3,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 4 | CTB484820S1/C2402708/60. | CUST. EX II 2GD EX E IIC | NR | 5,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 5 | CTB453820S1/C2402708/70. | CASS.INOX 450X380X200 CON 1 FLANGIA | NR | 4,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 6 | CTB262616S1/C2402708/80. | CUST. EX II 2GD EX E IIC | NR | 11,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 7 | CTB303020S1/C2402708/90. | CUST. EX II 2GD EX E IIC | NR | 4,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |
| 8 | CTB262616S1/C2402708/100. | CUST. EX II 2GD EX E IIC | NR | 3,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: | 85369095 | | | | |

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# List of Inspected Materials



**Cliente:**

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**Destinazione:** 102494

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MARINA DI RAVENNA RA 48122
ITALIA

**Causale:** Vendita

**Part.IVA:** IT 00082100397

| | | | | | |
|---|---|---|---|---|---|
| **OdA Cli.** | 1724001299 rev.1 | **Ordine** | **COV2402708** | **Data Ordine** | **27/06/2024** |
| **Mod. Spedizione** | MEZZO VETTORE | **Nr. Revisione** | **1** | **Data Revisione** | **18/07/2024** |
| **Vettore** | | | | | |

| Pos | Articolo | Descrizione | U/M | Quantità | Data Consegna Richiesta | Data Consegna Confermata |
|---|---|---|---|---|---|---|
| 10 | CTB303020S1/C2402708/51 | CUST. EX II 2GD EX E IIC | NR | 1,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: 85369095 | | | | | |
| 11 | CTB484820S1/C2402708/61 | CUST. EX II 2GD EX E IIC | NR | 1,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: 85369095 | | | | | |
| 12 | CTB484820S1/C2402708/62 | CUST. EX II 2GD EX E IIC | NR | 1,000 | 09/08/2024 | 09/08/2024 |
| | H.S. Code: 85369095 | | | | | |

ORDINE NO. 1724001299 DEL 26/06/2024
ROSETTI JOB REF. 123A90A - Base Load Power Hub Platform
INSTRUMENT JUNCTION BOXES

DESTINAZIONE:
ROSETTI MARINO S.P.A.
YARD PIOMBONI
VIA DEL MARCHESATO, 37
MARINA DI RAVENNA RA 48122
ITALIA

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