Base Load Power Hub (BLPH)

JB, SOCKET

EQUIPMENT TECHNICAL DATA SHEET

Document Number: 1724001481-EL-DS-00004

Document Class: 2

03	21/10/2024	Accepted for Construction (AFC)	A. Sortino	M. Berzoini	M. Berzoini
02	04/10/2024	Accepted for Construction (AFC)	A. Sortino	M. Berzoini	M. Berzoini
01	12/09/2024	Issue for Review (IFR)	A. Sortino	M. Berzoini	M. Berzoini
00	02/08/2024	Issue for Review (IFR)	A. Sortino	M. Berzoini	M. Berzoini
Rev.	Date	Description	Prepared	Reviewed	Approved

TECHNOR ITALSMEA
A COMPANY OF MARECHAL ELECTRIC

This document undergoes an issuance cycle within EDMS "Fusionlive".
Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Table of Contents

SH.	DESCRIPTION	REVISIONS							
		00	01	02	03				
1	Cover	X	X	X	X				
2	Table of Contents	X	X	X	X				
3	Revision / Change Log / Hold List	X	X	X	X				
4	EQUIPMENT TECHNICAL DATA SHEET	X	X	X	X				

This document undergoes an issuance cycle within EDMS "Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

Revision / Change Log

Rev.	Description
00	Issue for Review (IFR)
01	Issue for Review (IFR)
02	Accepted for Construction (AFC)
03	Accepted for Construction (AFC)

HOLDS LIST

No.	Description
1.	
2.	
3.	
4.	

This document undergoes an issuance cycle within EDMS "Fusionlive". Its distribution is electronically controlled. Once printed shall be considered as "NOT CONTROLLED" copy

ENCLOSURES / JUNCTION BOXES WITH TERMINALS

SB../ST.. Series - AISI 316 L Stainless steel

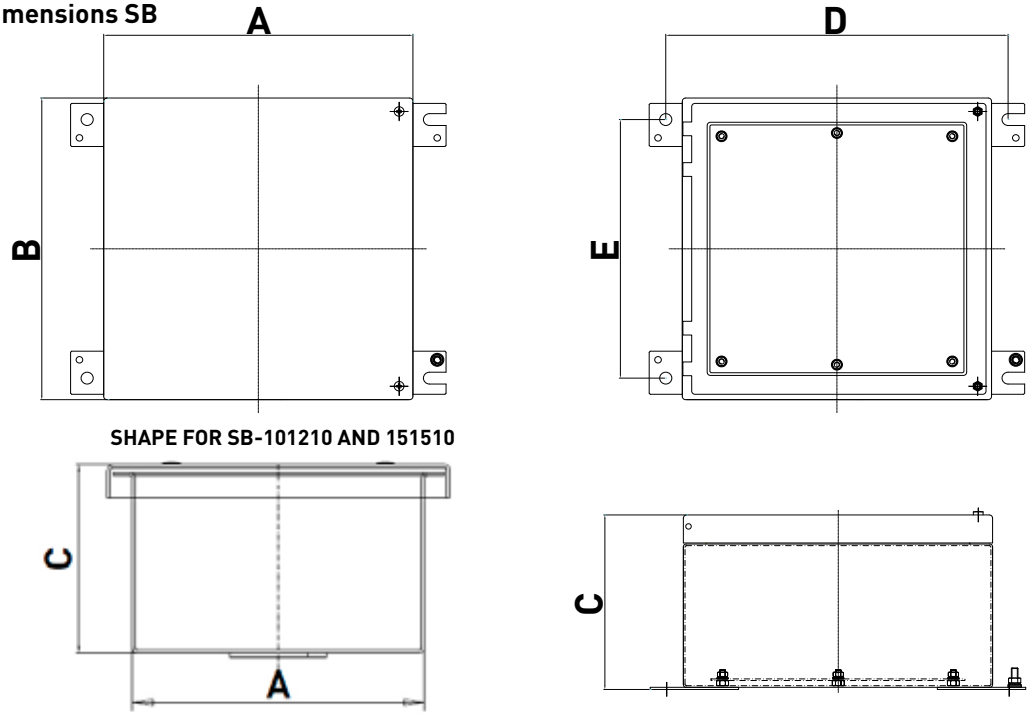


- SB../ST.. Series enclosures are suitable for housing Ex e/eb and Ex i terminals and can be provided with internal mounting plate to facilitate terminal board mounting.
- Maximum numbers of terminals varies according to: terminals section and current, enclosure size, operating temperature and required temperature class.
- Suitable for installation in ON/OFF-SHORE plants, in the presence of chemical agents and in any other highly corrosive environment.
- Full customization from 100x120x100 mm to 910x1140x500 mm: our technical department will support you in designing the best solution according to your needs and within the limits of the certificate.
- Full range of off-the-shelf solutions to ensure the best lead time on the market at a competitive pricing.

TECHNICAL FEATURES

Material	AISI316L stainless steel - with thickness 1,5 mm - upon request other thickness available		
IP rating	IP66/IP67	IP66/IP67	IP55/IP66 (SBHT.. Series high temperature)
Shock resistance	IK 10	IK 10	IK 10
Ambient temperature range	Ambient From -50°C to +95°C	Service From -50°C to +105°C	SBHT.. Series: From -60°C to +150°C
Approvals	Full conformity Certificate: FIDI 21 ATEX 0090X IECEx FIDI 21.0015X EAC: RU C-IT.BH02.B.00593/20	Component Certificate: FIDI 21 ATEX 0075U IECEx FIDI 21.0012U EAC: RU C-IT.BH02.B.00593/20	SBHT.. - high temperature: TÜV CY 18 ATEX0206009 IECEx EXA 18.0001 EAC: RU C-IT. BH02.B.00593/20
Approvals	UL listed: NEMA TYPE 1, 4, 4X,12 UL 508A-CSAC22.2No.14-13 KC: from KA4BO-0382X to KA4BO-0387X ECAS-Ex		
Marking	Full conformity Certificate: II 1 G Ex ia IIC T6...T4 Ga II 2G Ex eb and/or ia/ib IIC T6 Gb II 2D Ex tb IIIC T85°C...T135°C Db	Component Certificate: II 2 GD Ex eb IIC Gb Ex tb IIIC Db	SBHT.. - high temperature: II 1 G Ex ia IIC T* Ga II 2 G Ex eb and/or ia ib IIC T* Gb* Gas: T6/T5/T4/T3
Surface treatment	Acid treatment (pickling) Electro-polishing treatment		
Standard certificate label	Made by self adhesive UV and corrosion resistant polyester approved by certified Laboratory		
Included accessories	Screws and accessories in AISI316L stainless steel		
Optional accessories	Side removable gland plate Without hinges Drain/Breather valve Laminated plastic/Stainless steel certificate label Internal mounting plate Locking facility Internal/external through earth bolt		
Available versions	ST Version (with only 1/4 turn key and hinges) without screw Standard version: up to internal temperature of 105°C HT version: up to internal temperature of 130°C		

Dimensions SB



SB Series - AISI 316 L stainless steel

CODE	TYPE	DIMENSION [mm]					WEIGHT [kg]	MOUNTING PLATE
		A	B	C	FIXING D	FIXING E		
B016I00000136	SB-142013	140	200	130	170	-	5	90X150
B016I00000135	SB-151510***	150	150	100	180	-	4	-
B016I00000137	SB-202016	200	200	160	230	160	6	150X150
B016I00000138	SB-202713	200	270	130	230	230	7	150X220
B016I00000139	SB-202716	200	270	160	230	230	7,5	150X220
B016I00000140	SB-272713	270	270	130	300	230	8	220X220
B016C10142526	SB-273513	270	350	130	300	310	9,5	220X300
B016I00000141	SB-273516	270	350	160	300	310	11	220X300
B016I00000142	SB-282816	280	280	160	310	240	10	230X230
B016I00000143	SB-282827	280	280	270	310	240	12	230X230
B016C12244408	SB-353516	350	350	160	380	310	13	300X300
B016I00000144	SB-353520	350	350	200	380	310	13,5	300X300
B016I00000145	SB-355016	350	500	160	380	460	16	300X450
B016I00000146	SB-355020	350	500	200	380	460	17,5	300X450
B016C10142527	SB-383816	380	380	160	410	340	14	330X330
B016I00000147	SB-383820	380	380	200	410	340	15	330X330
B016I00000148	SB-383827	380	380	270	410	340	17	330X330
B016I00000149	SB-384516	380	450	160	410	410	16	330X400
B016I00000150	SB-384520	380	450	200	410	410	17	330X400
B016I00000151	SB-385716	380	570	160	410	530	20	330X520
B016C12244409	SB-505016	500	500	160	530	460	22	450X450
B016I00000152	SB-505020	500	500	200	530	460	23,5	450X450
B016I00000153	SB-575716	570	570	160	600	530	26	520X520
B016I00000154	SB-575720	570	570	200	600	530	28,5	520X520
B016I00000155	SB-575730	570	570	300	600	530	33	520X520
B016I00000156	SB-577620	570	760	200	600	720	35,5	520X710
B016I00000157	SB-769520	760	950	200	790	910	53	710X900
on request	SB-385720	380	570	200	410	530	25	330X520

***The enclosure is without hinges and complete with TS35x7,5 Omega rail welded on the back
Other sizes up to 1500 x 960 x 500 cm contact our Sales Dept.
These enclosures refer to the empty and undrilled enclosures, sold under component certificate.
For complete junction boxes is necessary to ask to the Sales Dept.

FLAMEPROOF

ECR-3 - Drain valve

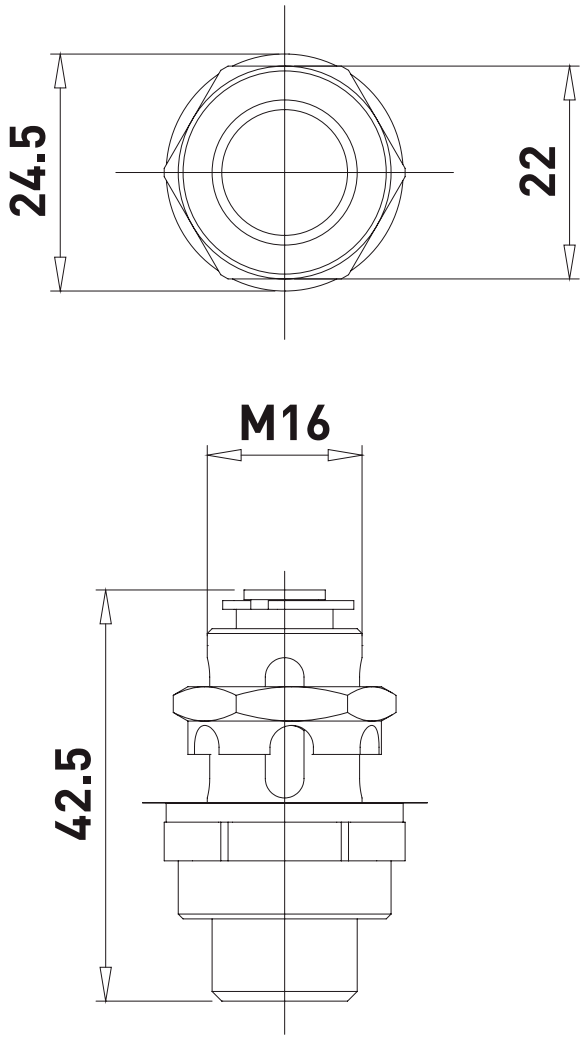


- Drain valve ECR3 is a device intended for use to evacuate the water generated due to condensation inside the enclosure.
- Drain valve is assembled in the lowest part or side part of the enclosure because the water is accumulated in bottom part of enclosure.
- Water will come out with the presence of drain valve device.
- Made of stainless steel or galvanized steel.
- Gasket is in aluminium.
- O-ring is in silicon rubber.
- IP66/IP67 in closed position (IP44 when installed on the bottom or on the side of enclosure*) *for detail see instruction note

TECHNICAL FEATURES

Material	Stainless steel AISI 316 L
IP rating	IP66/IP67 in closed position and IP44 in open position.
Ambient temperature range	-50°C +105°C
Approvals	ATEX: IMQ 14 ATEX 019U – IECEx: IMQ 14.0008U - EAC: RU C-IT.BH02.B.00593/20
Marking	Ex II 2GD – Ex e IIC Gb – Ex tb IIIC IP66/67
Standard compliance	EN60079-0:2012; EN60079-7:2007; EN60079-31:2009 IEC60079-0:2011; IEC60079-7:2006-07; IEC60079-31:2008
Zones	1; 21
Gaskets	Silicone gasket (continuous use temperature -60 ° C + 220 ° C)
Entries	Need to hole M16 x 1.5 6H or diameter from 16 mm to 16.5 mm and seal metal aluminum EN-AW 1050.

Dimensions ECR-3



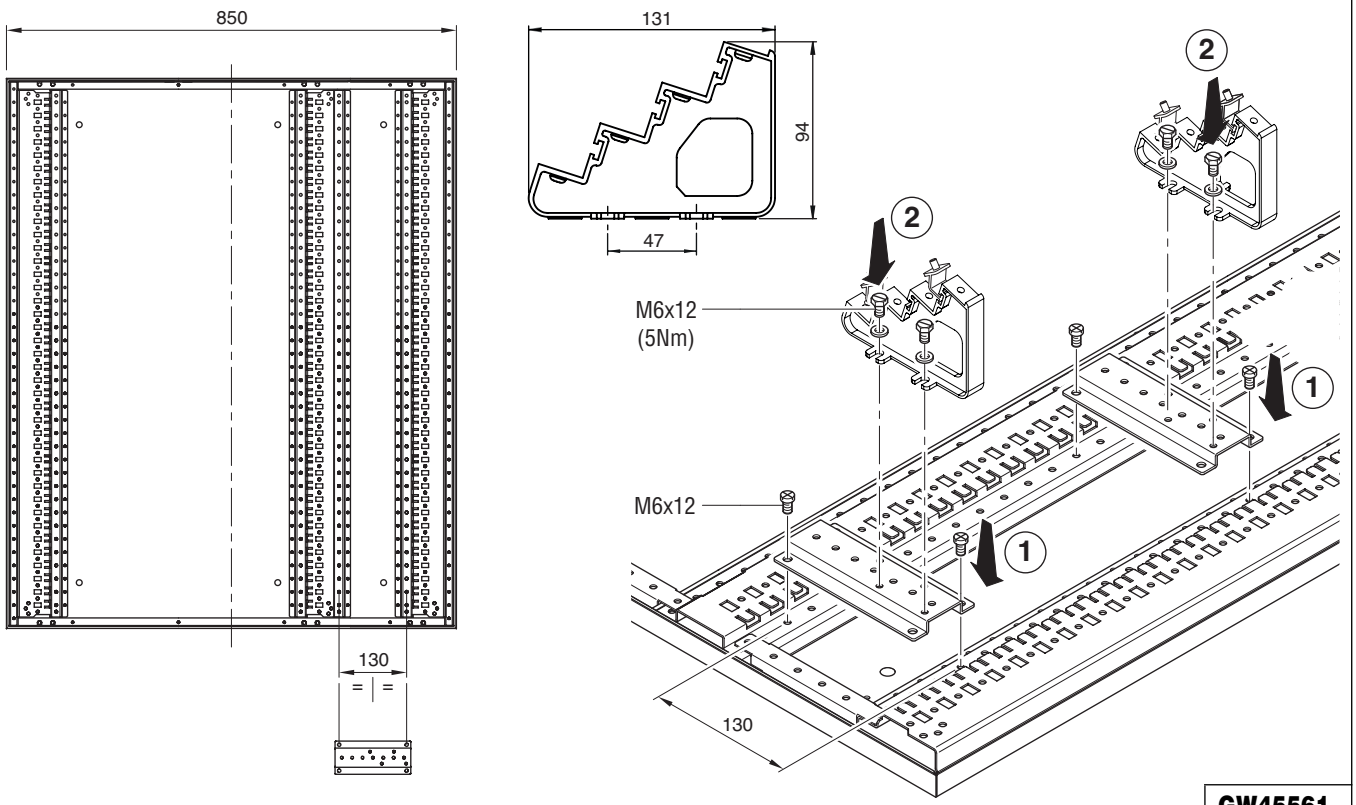
Drain valve ECR-3

CODE	TYPE
B080909000006	ECR 3 DRAIN VALVE

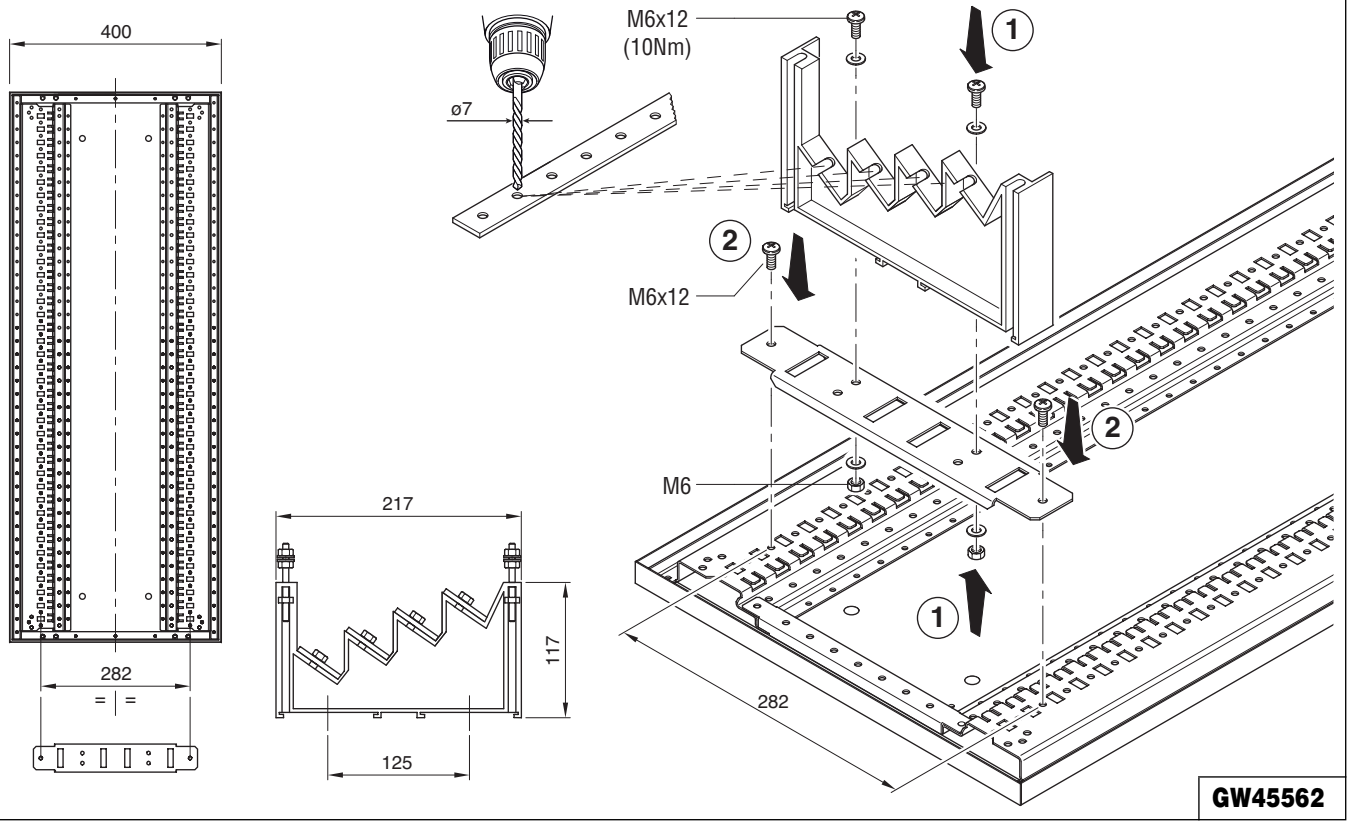
KIT PORTABARRE

BAR HOLDER KIT - KIT PORTE-BARRES - *KIT PORTABARRAS* - KIT STANGENHALTER

KIT PORTABARRE SCALARE BARRE PIATTE 250-400-630A - *SCALAR FLAT BAR HOLDER KIT 250-400-630A*
KIT PORTE-BARRES SCALAIRE BARRES PLATES 250-400-630A - *KIT PORTABARRAS ESCALAR BARRAS PLANAS 250-400-630A*
KIT SKALARE STANGENHALTER FLACHE STANGEN 250-400-630A

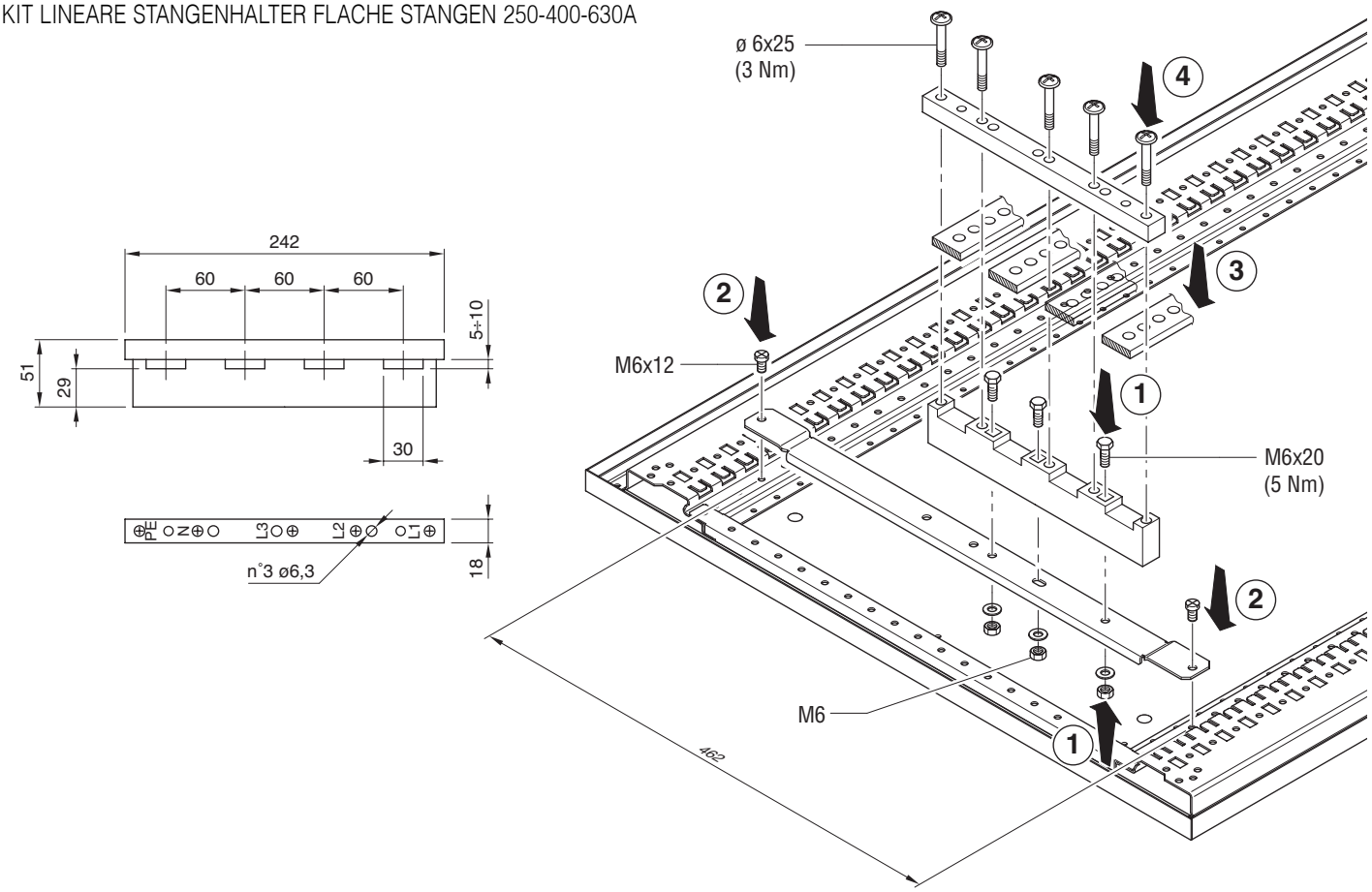


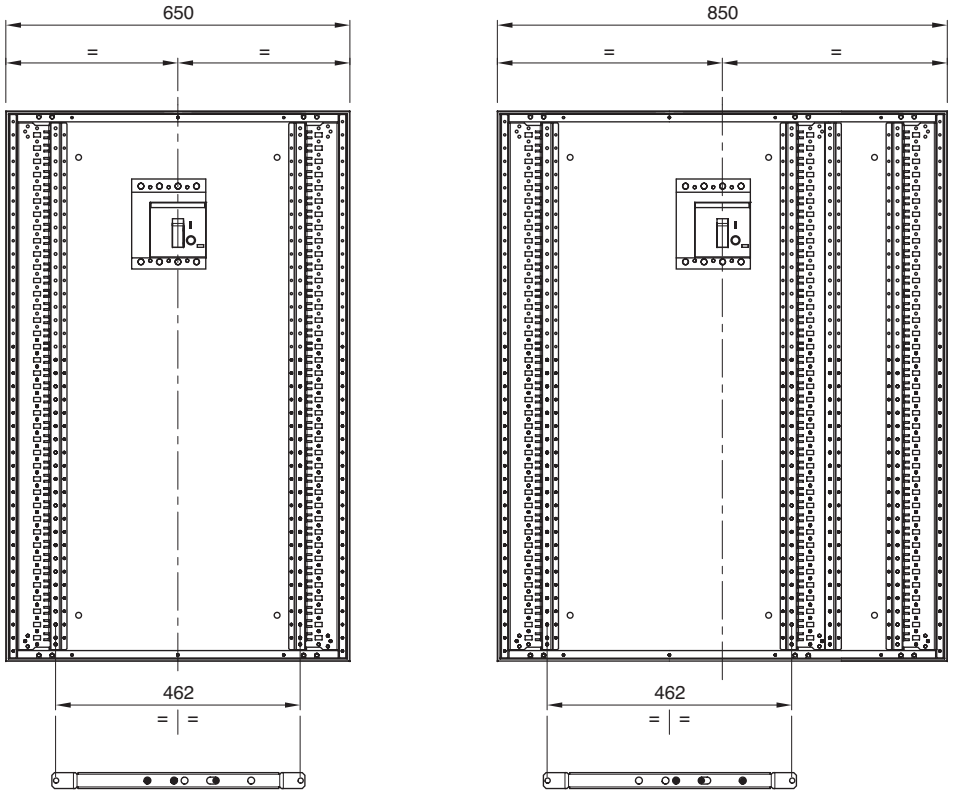
GW45561



GW45562

KIT PORTABARRE LINEARE BARRE PIATTE 250-400-630A - *LINEAR FLAT BAR HOLDER KIT 250-400-630A*
KIT PORTE-BARRES LINÉAIRE BARRES PLATES 250-400-630A - *KIT PORTABARRAS LINEAL BARRAS PLANAS 250-400-630A*
KIT LINEARE STANGENHALTER FLACHE STANGEN 250-400-630A





GW45563

GEWISS - *MATERIALE ELETTRICO*

SAT

+39 035 946 111
8.30 - 12.30 / 14.00 - 18.00
lunedì ÷ venerdì - monday ÷ friday

+39 035 946 260

sat@gewiss.com
www.gewiss.com

cod. 7.57.3.897.1

ULTIMA REVISIONE 10/2012

ENCLOSURES / JUNCTION BOXES WITH TERMINALS

AQ../AR.. Series - Glassfiber reinforced polyester



- AQ../AR.. Series enclosures are ideally suited for chemical and petrochemical environments;
- Made of GRP (Glassfiber reinforced polyester), AQ../AR.. enclosures guaranteed high resistance to sea water corrosion and can withstand the harshest temperatures;
- Used to house Ex e and Ex i terminals. Maximum number of terminals changes according to: terminals section, enclosure operating temperature and required temperature class.

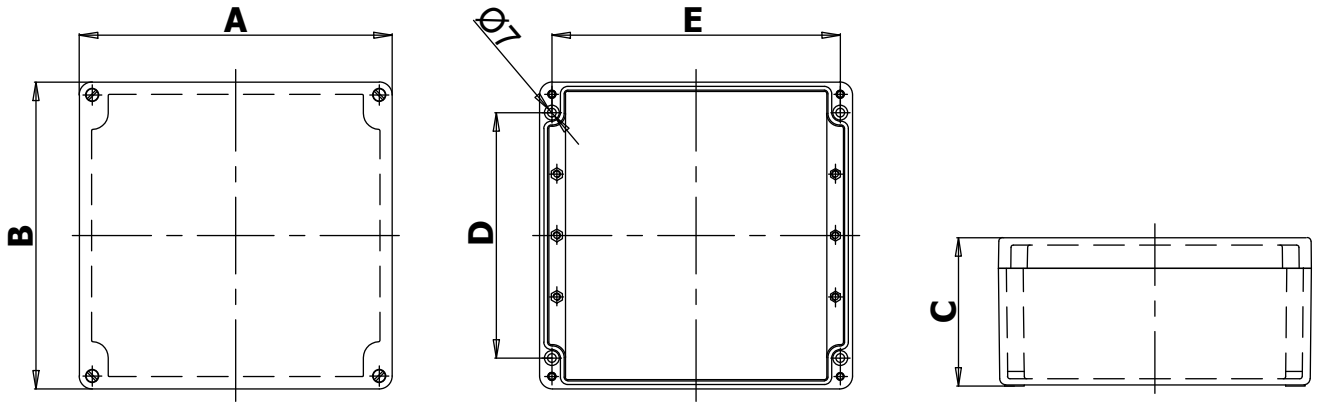
MARKING

II 1 G Ex ia IIC T6/T5/T4 Ga II 2GD Ex eb IIC T6/T5/T4 Gb or Ex tb IIIC T85°C/T100°C/T135°C Db	Component marking II 2GD Ex eb IIC Gb Ex tb IIIC Db

TECHNICAL FEATURES

Material	GRP (Glassfiber reinforced polyester)	
IP rating	IP66	
Shock resistance	IK10	
Ambient temperature range	Ambient -50°C to +95°C	Service -50°C to +105°C
Approvals	Full Conformity Certificate: FIDI 21 ATEX 0090X IECEx FIDI21.0015X EAC: RUC-IT.BH02.B.00593/20 ECAS-Ex	Component Certficate: FIDI21ATEX0075U IECEx FIDI21.0012U EAC:RUC-IT.BH02.B.00593/20
Standard certificate label	Made by self adhesive UV and corrosion resistant polyester, approved by certified Laboratory.	
Included accessories	Screw in AISI304	
Optional accessories	Hinges Drain/breather valve Laminated plastic/Stainless steel certificate label Internal mounting plate Earth continuity plates Passing through earth bolt Screw in AISI316L	
Available versions	Standard version: up to internal temperature of 105°C HT version: up to internal temperature of 130°C	

Dimensions AQ../AR..



AQ../AR.. Series - Junction boxes - Standard versions*

CODE	TYPE	DIMENSION [mm]					WEIGHT [kg]	MOUNTING PLATE
		A	B	C	FIXING D	FIXING E		
B011041010008	AQ-080808P*	75	80	75	45	68	0,26	-
B011031010001	AR-081106P*	75	110	60	45	98	0,29	-
B011041010002	AQ-121209P*	122	120	90	82	106	0,75	100X100
B011031010002	AR-122209P*	120	220	90	82	204	1,06	100X195
B011041010003	AQ-161609P*	160	160	90	110	140	1,29	130X130
B011031010003	AR-162609P*	160	260	90	110	240	1,71	130X240
B011031010004	AR-163609P*	160	360	90	110	340	2,15	130X340
B011041010004	AQ-252612P*	250	255	120	200	235	2,65	210X232
B011041010005	AQ-252616P*	250	255	160	200	235	2,85	210X232
B011031010006	AR-254012P*	250	400	120	200	380	3,65	210X380
B011031010007	AR-254016P*	250	400	160	200	380	3,85	210X380
B011031010008	AR-256012P*	250	600	120	200	580	5,23	210X580
B011041010006	AQ-414012P*	405	400	120	355	380	5,58	360X375

*HT version upon request

AQ../AR.. Series - Junction boxes - Only HT version

CODE	TYPE	DIMENSION [mm]					WEIGHT [kg]	MOUNTING PLATE
		A	B	C	FIXING D	FIXING E		
B011031010011	AR-081108P-HT	75	110	75	45	98	0,32	-
B011031010012	AR-081608P-HT	75	160	75	45	148	0,53	-
B011031010015	AR-082308P-HT	75	230	75	45	218	0,72	-
B011041010010	AQ-363609P-HT	360	360	90	310	340	4,1	320X340
B011041010007	AQ-414020P-HT	405	400	201	355	380	8,88	360X375
B011041010009	AQ-202017P-HT**	200	200	165	175	175	2	170X180
B011031010017	AR-203017P-HT**	200	300	165	175	275	2,22	170X265
B011031010018	AR-304020P-HT**	300	400	195	220	300	4	250X370
B01103101C005	AR-406025P-HT**	400	600	252	320	500	7,37	345X565

**Version with hinged lead and 1/4 closing system turned key
D and E dimensions refer to fixing
These enclosures refer to the empty and undrilled enclosures, sold under component certificate.
For complete junction boxes is necessary to ask to the Sales Dept.

FITTINGS

T Series - Exagonal plugs



Type A



Type B



Type C

T.. series hexagonal plugs are used to close the unused entries, they have both Ex d and Ex e mode of protection.

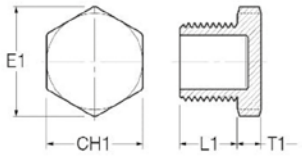
MARKING

II 2GD
Ex d/e IIC Gb
Ex tb IIIC Db IP66/68

I M2
Ex d/e I Mb

Material	Nickel chrome plated brass AISI 316 L Stainless steel (other materials upon request)
IP rating	IP66/IP68
Ambient temperature range	-40°C +100°C with EPDM or Nylon gaskets -65°C +220°C with Silicone gaskets -65°C +400°C without gaskets
Approvals	Certified 12ATEX 0089X IEC Ex INE 10.0014X EAC
Thread	Metric pitch 1,5, NPT (other threads upon request)
Optional accessories	Locknut, Gasket

Dimensions



T.. Series Hexagonal head plugs

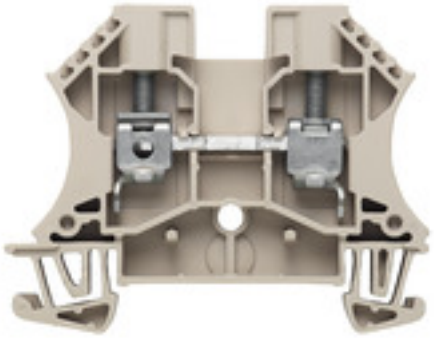
CODE		TYPE	SIZE	THREAD	DIMENSIONS [mm]				TYPE
BRASS	AISI 316 L				L1	T1	CH1	E1	
C020111203001	C020111403001	T20	M20 X 1,5	METRIC	15	5	24	26	A - B
C020121203001	C020121403001	T25	M25 X 1,5	METRIC	15	5	30	33	A - B
C020131203001	C020131403001	T32	M32 X 1,5	METRIC	15	5	36	40	A - B
C020141203001	C020141403001	T40	M40 X 1,5	METRIC	15	5	45	50	A - B
C020151203001	C020151403001	T50	M50 X 1,5	METRIC	15	8	55	60	A - B
C020161203001	C020161403001	T63	M63 X 1,5	METRIC	15	8	68	74	A - B
C020171203001	C020171403001	T75	M75 X 1,5	METRIC	20	8	80	86	A - B
C020181203001	C020181403001	T80	M80 X 1,5	METRIC	20	8	100	107	A - B
C020112203001	C020112403001	T1N	1/2"	NPT	15	5	26	28,6	C
C020122203001	C020122403001	T2N	3/4"	NPT	15	5	30	33	C
C020132203002	C020132403001	T3N	1"	NPT	16	5	36	39,6	C
C020142203001	C020142403001	T4N	1" 1/4	NPT	17	5	45	46,5	C
C020152203001	C020152403001	T5N	1" 1/2	NPT	17	8	50	55	C
C020162203001	C020162403001	T6N	2"	NPT	18	8	68	74	C
C020172203001	C020172403001	T7N	2" 1/2	NPT	20	8	80	86	C
C020182203001	C020182403001	T8N	3"	NPT	20	8	100	107	C

WDU 6

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, 6 mm², 41 A, 800 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid, 130 °C
Order No.	1020200000
Type	WDU 6
GTIN (EAN)	4008190163440
Qty.	100 pc(s).

WDU 6

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
Depth including DIN rail	47 mm	Height	60 mm
Height (inches)	2.362 inch	Width	7.9 mm
Width (inches)	0.311 inch	Net weight	12.75 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)	41 A
Wire cross section max. (ATEX)	10 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	41 A	Wire cross section max. (IECEX)	10 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 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.	2.5 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.	2.5 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.	2.5 mm²

Additional technical data

Explosion-tested version	Yes	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on

WDU 6

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)	50 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	8 AWG
Wire cross section min. (CSA)	22 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Blade size	0.8 x 4.0 mm			
Clampable conductor	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	0.5 mm²	
		max.	10 mm²	
		nominal	6 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	0.8 Nm
			max.	1.6 Nm
		Recommended wire-end ferrule		
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	stranded, H07V-R	
		min.	1.5 mm²	
		max.	10 mm²	
		nominal	6 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	0.8 Nm
			max.	1.6 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.	10 mm²	
		nominal	6 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	0.8 Nm
			max.	1.6 Nm
		Recommended wire-end ferrule		
Clamping range, max.	10 mm²			
Clamping range, min.	0.22 mm²			
Clamping screw	M 3.5			
Connection cross-section, stranded, max.	10 mm²			
Connection cross-section, stranded, min.	1.5 mm²			
Connection direction	on side			
Gauge to IEC 60947-1	A5			

WDU 6

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Number of connections	2
Stripping length	12 mm
Tightening torque, max.	1.6 Nm
Tightening torque, min.	0.8 Nm
Torque level with DMS electric screwdriver	3
Twin wire-end ferrules, max.	4 mm²
Twin wire-end ferrules, min.	0.5 mm²
Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 8
Wire connection cross section AWG, min.	AWG 26
Wire connection cross section, finely stranded, max.	10 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.	6 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.	6 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.	10 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 8	Wire connection cross section AWG, min.	AWG 26

Rating data

Rated cross-section	6 mm²	Rated voltage	800 V
Rated DC voltage	800 V	Rated current	41 A
Current at maximum wires	57 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.78 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.31 W	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	8 AWG
Conductor size Factory wiring min. (UR)	22 AWG	Conductor size Field wiring max. (UR)	8 AWG
Conductor size Field wiring min. (UR)	22 AWG	Current size C (UR)	50 A
Voltage size C (UR)	600 V		

WDU 6

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 IECEx Certificate UKCA Ex Attestation of Conformity CB Testreport CB Certificate DNVGL certificate NEMKO certificate Lloyds Register Certificate POLSKIREJ certificate UKCA Ex Certificate 16-AV4BO-0265U. CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI WDU/WPE 6 StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

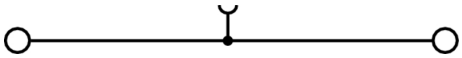
Creation date August 1, 2024 4:42:41 PM CEST

WDU 6

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



WPE 6

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

General ordering data

Version	PE terminal, Screw connection, Green/yellow, 6 mm², 800 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid
Order No.	1010200000
Type	WPE 6
GTIN (EAN)	4008190090098
Qty.	50 pc(s).

WPE 6

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
Depth including DIN rail	47 mm	Height	56 mm
Height (inches)	2.205 inch	Width	7.9 mm
Width (inches)	0.311 inch	Net weight	25.98 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	Green/yellow
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Wire cross section max. (ATEX)	6 mm²	Wire cross section max. (IECEX)	6 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, With PE connection, in closed state	End cover plate required	No
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	Yes
Rail	TS 35	N-function	No
PE function	Yes	PEN function	No

Additional technical data

Explosion-tested version	Yes	Installation advice	when screwed in
Interlock	for screw fixing	Number of similar terminals	1
Open sides	closed	Type of mounting	when screwed in

CSA rating data

Certificate No. (CSA)	200039-1888378	Wire cross section max. (CSA)	8 AWG
Wire cross section min. (CSA)	20 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

WPE 6

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Conductors for clamping (rated connection)

Blade size	4.0 x 0.8 mm	Clamping range, max.	10 mm²
Clamping range, min.	0.08 mm²	Clamping screw	M 3
Connection cross-section, stranded, max.	10 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection direction	on side	Gauge to IEC 60947-1	A5
Number of connections	2	Stripping length	12 mm
Tightening torque, max.	1.3 Nm	Tightening torque, min.	0.8 Nm
Type of connection	Screw connection	Wire connection cross section, finely stranded, max.	10 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.	6 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.	6 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.	10 mm²
Wire connection cross-section, solid core, min.	0.5 mm²		

Dimensions

TS 35 offset	50 mm

General

Installation advice	when screwed in	Rail	TS 35
Standards	IEC 60947-7-2		

PE rating data

Rated short-time current	720 A (6 mm²)	Centre screw on PE terminals	M 3
Tightening torque range for fixing screw	0.5…1.0 Nm	PEN function	No

Rating data

Rated cross-section	6 mm²	Rated voltage to adjoining terminal	800 V
Rated DC voltage	800 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	0.78 mΩ	Rated impulse withstand voltage to adjacent terminal	8 kV
Power loss in accordance with IEC 60947-7-x	1.31 W	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	8 AWG
Conductor size Factory wiring min. (UR)	20 AWG	Conductor size Field wiring max. (UR)	8 AWG
Conductor size Field wiring min. (UR)	20 AWG		

WPE 6

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Classifications

ETIM 6.0	EC000901	ETIM 7.0	EC000901
ETIM 8.0	EC000901	ETIM 9.0	EC000901
ECLASS 9.0	27-14-11-41	ECLASS 9.1	27-14-11-41
ECLASS 10.0	27-14-11-41	ECLASS 11.0	27-14-11-41
ECLASS 12.0	27-14-11-41	ECLASS 13.0	27-25-01-03

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 IECEx Certificate UKCA Ex Attestation of Conformity CB Test Certificate CB Certificate DNVGL certificate Lloyds Register Certificate POLSKIREJ certificate UKCA Ex Certificate 16-AV4BO-0265U. CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI WDU/WPE 6 NTI WDU/WPE 6 SL EN StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

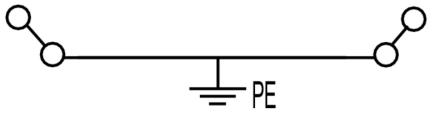
Creation date August 1, 2024 4:44:40 PM CEST

WPE 6

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



WDU 95N/120N

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, 120 mm², 269 A, 1000 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid, 130 °C
Order No.	1820550000
Type	WDU 95N/120N
GTIN (EAN)	4032248369300
Qty.	5 pc(s).

WDU 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	90 mm	Depth (inches)	3.543 inch
Depth including DIN rail	91 mm	Height	91 mm
Height (inches)	3.583 inch	Width	27 mm
Width (inches)	1.063 inch	Net weight	261.8 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)	880 V	Current (ATEX)	221 A
Wire cross section max. (ATEX)	120 mm²	Max. voltage (IECEX)	880 V
Current (IECEX)	221 A	Wire cross section max. (IECEX)	120 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 screwable cross-connection, in closed state	End cover plate required	No
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	Yes

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

Cross-section for connected wire, solid, two clampable wires, max.	10 mm²	Cross-section for connected wire, solid, two clampable wires, min.	35 mm²
Cross-section for connected wire, stranded, two clampable wires, max.	35 mm²	Cross-section for connected wire, stranded, two clampable wires, min.	10 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	35 mm²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min.	10 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	16 mm²	Wire cross-section, finely stranded, two clampable wires, max.	35 mm²

WDU 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Additional technical data

Explosion-tested version	Yes	Installation advice	Direct mounting
Number of similar terminals	1	Open sides	closed
Type of mounting	Snap-on		

CSA rating data

Certificate No. (CSA)	200039-1057876	Current size C (CSA)	220 A
Voltage size C (CSA)	1000 V	Wire cross section max. (CSA)	0000 AWG
Wire cross section min. (CSA)	4 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Blade size	S6 (DIN 6911)	Clamping range, max.	150 mm²
Clamping range, min.	16 mm²	Clamping screw	M 10
Connection cross-section, stranded, max.	150 mm²	Connection cross-section, stranded, min.	16 mm²
Connection direction	on side	Gauge to IEC 60947-1	B13
Number of connections	2	Stripping length	27 mm
Tightening torque, max.	20 Nm	Tightening torque, min.	12 Nm
Type of connection	Screw connection	Wire connection cross section AWG, max.	kcmil 250
Wire connection cross section AWG, min.	AWG 4	Wire connection cross section, finely stranded, max.	120 mm²
Wire connection cross section, finely stranded, min.	16 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	95 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	16 mm²	Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	16 mm²		

Dimensions

TS 32 offset	64.5 mm

General

Installation advice	Direct mounting	Rail	TS 35
Standards	IEC 60947-7-1	Wire connection cross section AWG, max.	kcmil 250
Wire connection cross section AWG, min.	AWG 4		

WDU 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Rating data

Rated cross-section	120 mm²	Rated voltage	1,000 V
Rated DC voltage	1,000 V	Rated current	269 A
Current at maximum wires	290 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.12 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	8.61 W	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	250 kcmil
Conductor size Factory wiring min. (UR)	4 AWG	Conductor size Field wiring max. (UR)	250 kcmil
Conductor size Field wiring min. (UR)	4 AWG	Current size C (UR)	228 A
Voltage size C (UR)	1000 V	Wire cross section max. (UR)	250 kcmil
Wire cross section min. (UR)	4 AWG		

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

WDU 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Downloads

Approval/Certificate/Document of Conformity	Attestation of Conformity IECEx Certificate UKCA Ex Attestation of Conformity UKCA Ex Certificate CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI WDU/WPE 95N/120 StorageConditionsTerminalBlocks Instruction Instruction User documentation WZAD
Catalogues	Catalogues in PDF-format
Brochures	

WDU 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

WPE 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

General ordering data

Version	PE terminal, Screw connection, Green/yellow, 95 mm², 1000 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid
Order No.	1846030000
Type	WPE 95N/120N
GTIN (EAN)	4032248394531
Qty.	5 pc(s).

WPE 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	90 mm	Depth (inches)	3.543 inch
Depth including DIN rail	91 mm	Height	91 mm
Height (inches)	3.583 inch	Width	27 mm
Width (inches)	1.063 inch	Net weight	331 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	Green/yellow
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Wire cross section max. (ATEX)	120 mm²	Wire cross section max. (IECEX)	120 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, With PE connection, in closed state	End cover plate required	No
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	Yes
Rail	TS 35	N-function	No
PE function	Yes	PEN function	Yes

Additional technical data

Explosion-tested version	Yes	Installation advice	when screwed in
Interlock	for screw fixing	Number of similar terminals	1
Open sides	closed	Type of mounting	when screwed in

CSA rating data

Certificate No. (CSA)	200039-1057876	Wire cross section max. (CSA)	0000 AWG
Wire cross section min. (CSA)	4 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

WPE 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Conductors for clamping (rated connection)

Blade size	S6 (DIN 6911)	Clamping range, max.	150 mm²
Clamping range, min.	16 mm²	Clamping screw	M 10
Connection cross-section, stranded, max.	150 mm²	Connection cross-section, stranded, min.	16 mm²
Connection direction	on side	Gauge to IEC 60947-1	B13
Number of connections	2	Stripping length	27 mm
Tightening torque, max.	20 Nm	Tightening torque, min.	16 Nm
Type of connection	Screw connection	Wire connection cross section AWG, max.	kcmil 250
Wire connection cross section AWG, min.	AWG 4	Wire connection cross section, finely stranded, max.	120 mm²
Wire connection cross section, finely stranded, min.	16 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	95 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	16 mm²	Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	16 mm²		

General

Installation advice	when screwed in	Rail	TS 35
Standards	IEC 60947-7-2	Wire connection cross section AWG, max.	kcmil 250
Wire connection cross section AWG, min.	AWG 4		

PE rating data

Rated short-time current	11400 A (95 mm²)	Centre screw on PE terminals	M 5
Tightening torque range for fixing screw	3.0...4.0 Nm	PEN function	Yes

Rating data

Rated cross-section	95 mm²	Rated voltage to adjoining terminal	1,000 V
Rated DC voltage	1,000 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	0.14 mΩ	Rated impulse withstand voltage to adjacent terminal	8 kV
Power loss in accordance with IEC 60947-7-x	7.42 W	Pollution severity	3

UL rating data

Certificate No. (cURus)	E60693	Conductor size Factory wiring max. (cURus)	000 AWG
Conductor size Factory wiring min. (cURus)	4 AWG	Conductor size Field wiring max. (cURus)	000 AWG
Conductor size Field wiring min. (cURus)	4 AWG		

Classifications

ETIM 6.0	EC000901	ETIM 7.0	EC000901
ETIM 8.0	EC000901	ETIM 9.0	EC000901
ECLASS 9.0	27-14-11-41	ECLASS 9.1	27-14-11-41
ECLASS 10.0	27-14-11-41	ECLASS 11.0	27-14-11-41
ECLASS 12.0	27-14-11-41	ECLASS 13.0	27-25-01-03

WPE 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E60693
Certificate No. (cURusEX)	E184763

Downloads

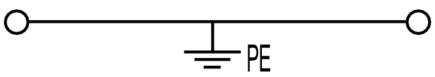
Approval/Certificate/Document of Conformity	Attestation of Conformity IECEx Certificate CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI WDU/WPE 95N/120 StorageConditionsTerminalBlocks Instruction
Catalogues	Catalogues in PDF-format
Brochures	

WPE 95N/120N

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings

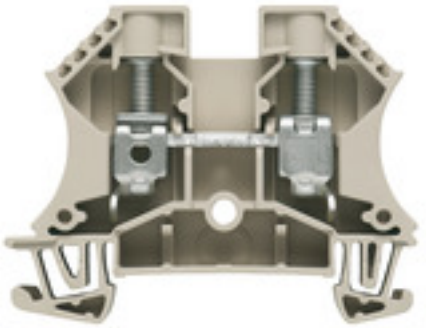


WDU 10

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, 10 mm², 57 A, 1000 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid, 130 °C
Order No.	1020300000
Type	WDU 10
GTIN (EAN)	4008190068868
Qty.	50 pc(s).

WDU 10

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
Depth including DIN rail	47 mm	Height	60 mm
Height (inches)	2.362 inch	Width	9.9 mm
Width (inches)	0.39 inch	Net weight	16.9 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)	57 A
Wire cross section max. (ATEX)	10 mm²	Max. voltage (IECEX)	690 V
Current (IECEX)	57 A	Wire cross section max. (IECEX)	10 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 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.	6 mm²	Cross-section for connected wire, solid, two clampable wires, min.	0.5 mm²
Cross-section for connected wire, stranded, two clampable wires, max.	6 mm²	Cross-section for connected wire, stranded, two clampable wires, min.	0.5 mm²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max.	6 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.	6 mm²

WDU 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Additional technical data

Explosion-tested version	Yes	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on

CSA rating data

Certificate No. (CSA)	200039-1057876	Current size C (CSA)	65 A
Voltage size C (CSA)	600 V	Wire cross section max. (CSA)	6 AWG
Wire cross section min. (CSA)	18 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

Conductors for clamping (rated connection)

Blade size	1.0 x 5.5 mm			
Clampable conductor	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	solid, H05(07) V-U	
		min.	1.5 mm²	
		max.	16 mm²	
		nominal	10 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	1.2 Nm
			max.	1.9 Nm
		Recommended wire-end ferrule		
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	stranded, H07V-R	
		min.	1.5 mm²	
		max.	16 mm²	
		nominal	10 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	1.2 Nm
			max.	1.9 Nm
		Recommended wire-end ferrule		
	Connection specification	Screw connection		
	Cross-section for conductor connection	Type	flexible, H05(07) V-K	
		min.	1.5 mm²	
		max.	16 mm²	
		nominal	10 mm²	
	wire end ferrule	Stripping length	min.	12 mm
			max.	12 mm
			nominal	12 mm
		Tightening torque	min.	1.2 Nm
			max.	1.9 Nm
		Recommended wire-end ferrule		
Clamping range, max.	16 mm²			
Clamping range, min.	1.31 mm²			
Clamping screw	M 4			

Creation date August 2, 2024 8:48:27 AM CEST

WDU 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Connection cross-section, stranded, max.	16 mm²
Connection cross-section, stranded, min.	1.5 mm²
Connection direction	on side
Gauge to IEC 60947-1	B6
Number of connections	2
Stripping length	12 mm
Tightening torque, max.	1.9 Nm
Tightening torque, min.	1.2 Nm
Torque level with DMS electric screwdriver	4
Twin wire-end ferrules, max.	6 mm²
Twin wire-end ferrules, min.	1.5 mm²
Type of connection	Screw connection
Wire connection cross section AWG, max.	AWG 6
Wire connection cross section AWG, min.	AWG 16
Wire connection cross section, finely stranded, max.	16 mm²
Wire connection cross section, finely stranded, min.	1.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	16 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	1.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1.5 mm²
Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	1.5 mm²

General

Rail	TS 35	Standards	IEC 60947-7-1
Wire connection cross section AWG, max.	AWG 6	Wire connection cross section AWG, min.	AWG 16

Rating data

Rated cross-section	10 mm²	Rated voltage	1,000 V
Rated DC voltage	1,000 V	Rated current	57 A
Current at maximum wires	76 A	Standards	IEC 60947-7-1
Volume resistance according to IEC 60947-7-x	0.56 mΩ	Rated impulse withstand voltage	8 kV
Power loss in accordance with IEC 60947-7-x	1.82 W	Pollution severity	3

WDU 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	6 AWG
Conductor size Factory wiring min. (UR)	18 AWG	Conductor size Field wiring max. (UR)	6 AWG
Conductor size Field wiring min. (UR)	18 AWG	Current size C (UR)	65 A
Voltage size C (UR)	600 V		

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

WDU 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Downloads

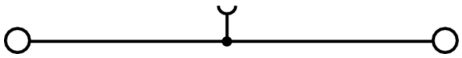
Approval/Certificate/Document of Conformity	Attestation of Conformity IECEx Certificate UKCA Ex Attestation of Conformity CB Testreport CB Certificate DNVGL certificate NEMKO certificate Lloyds Register Certificate POLSKIREJ certificate UKCA Ex Certificate 16-AV4BO-0265U. CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI_ IECEx_WDU-WPE 10.pdf StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

WDU 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



WPE 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image



A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

General ordering data

Version	PE terminal, Screw connection, Green/yellow, 10 mm², 800 V, Number of connections: 2, Number of levels: 1, TS 35, V-0, Wemid
Order No.	1010300000
Type	WPE 10
GTIN (EAN)	4008190031251
Qty.	50 pc(s).

WPE 10

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
Depth including DIN rail	47 mm	Height	56 mm
Height (inches)	2.205 inch	Width	9.9 mm
Width (inches)	0.39 inch	Net weight	30.28 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	Green/yellow
UL 94 flammability rating	V-0		

Rating data IECEx/ATEX

Certificate No. (ATEX)	DEMKO14ATEX1338U	Certificate No. (IECEX)	IECEXULD14.0005U
Wire cross section max. (ATEX)	10 mm²	Wire cross section max. (IECEX)	10 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, With PE connection, in closed state	End cover plate required	No
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	Yes
Rail	TS 35	N-function	No
PE function	Yes	PEN function	No

Additional technical data

Explosion-tested version	Yes	Installation advice	when screwed in
Interlock	for screw fixing	Number of similar terminals	1
Open sides	closed	Type of mounting	when screwed in

CSA rating data

Certificate No. (CSA)	200039-1888378	Wire cross section max. (CSA)	6 AWG
Wire cross section min. (CSA)	16 AWG		

Conductors for clamping (additional connection)

Connection type, additional connection	Screw connection

WPE 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Conductors for clamping (rated connection)

Blade size	1.0 x 5.5 mm	Clamping range, max.	16 mm²
Clamping range, min.	1.31 mm²	Clamping screw	M 4
Connection cross-section, stranded, max.	16 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection direction	on side	Gauge to IEC 60947-1	B6
Number of connections	2	Stripping length	12 mm
Tightening torque, max.	2.4 Nm	Tightening torque, min.	1.2 Nm
Type of connection	Screw connection	Wire connection cross section, finely stranded, max.	16 mm²
Wire connection cross section, finely stranded, min.	1.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max.	16 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min.	1.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	16 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1.5 mm²	Wire connection cross-section, solid core, max.	16 mm²
Wire connection cross-section, solid core, min.	1.5 mm²		

Dimensions

TS 35 offset	32 mm

General

Installation advice	when screwed in	Rail	TS 35
Standards	IEC 60947-7-2		

PE rating data

Rated short-time current	1200 A (10 mm²)	Centre screw on PE terminals	M 3
Tightening torque range for fixing screw	0.5…1.0 Nm	PEN function	No

Rating data

Rated cross-section	10 mm²	Rated voltage to adjoining terminal	800 V
Rated DC voltage	800 V	Standards	IEC 60947-7-2
Volume resistance according to IEC 60947-7-x	0.56 mΩ	Rated impulse withstand voltage to adjacent terminal	8 kV
Power loss in accordance with IEC 60947-7-x	1.82 W	Pollution severity	3

UL rating data

Certificate No. (UR)	E60693	Conductor size Factory wiring max. (UR)	6 AWG
Conductor size Factory wiring min. (UR)	16 AWG	Conductor size Field wiring max. (UR)	6 AWG
Conductor size Field wiring min. (UR)	16 AWG		

WPE 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Classifications

ETIM 6.0	EC000901	ETIM 7.0	EC000901
ETIM 8.0	EC000901	ETIM 9.0	EC000901
ECLASS 9.0	27-14-11-41	ECLASS 9.1	27-14-11-41
ECLASS 10.0	27-14-11-41	ECLASS 11.0	27-14-11-41
ECLASS 12.0	27-14-11-41	ECLASS 13.0	27-25-01-03

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 IECEx Certificate UKCA Ex Attestation of Conformity CB Test Certificate CB Certificate DNVGL certificate Lloyds Register Certificate POLSKIREJ certificate UKCA Ex Certificate 16-AV4BO-0265U. CE Declaration of Conformity ATEX Certificate UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	NTI_ IECEx_WDU-WPE 10.pdf NTI WDU/WPE 10 SL/EN StorageConditionsTerminalBlocks
Catalogues	Catalogues in PDF-format
Brochures	

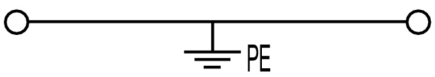
Creation date August 2, 2024 8:49:43 AM CEST

WPE 10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



PLUGS & SOCKET-OUTLETS

MXBS - Socket outlet combination boxes



These socket outlet combination boxes, available in different materials and sizes, are designed for making electrical connections in hazardous areas.
They can be equipped with 5 to 680A Marechal decontactors and/or 10 A Marechal multicontact connectors, offering from 12 to 37 contacts.
They provide increased and intrinsic safety, allowing them to be used in zones 1 & 2 (gas), 21 & 22 (dust).

This comprehensive range is perfect for wet and corrosive environments, such as food and beverage or chemical industries, thanks to its specific and high quality materials. It is possible to mount both socket-outlets and multicontact connectors on the same box: DXN1, DXN3, DXN6, PXN12C, DXN25C, DXN37C, SPeX, DXA1 and PNCX.

TECHNICAL FEATURES

Material	Enclosure: Stainless steel AISI316L, GRP or Aluminium Socket: GRP and/or Aluminium
IP rating	IP66
Ambient temperature range	-55°C to +60°C
Approvals	LCIE 17 ATEX 3005 X (Standard) IECEx LCIE 17.0003X (marking upon request) EAC (available for certificate INERIS 06 ATEX 0015)
Marking	II 2 GD Ex eb IIC T(**) Gb or Ex ia or ib IIC T(**) Gb or Ex eb ia or eb ib IIC T(**) Gb Ex tb IIIC T(**) Db IP66 ** T6/T80°C, T5/T95°C, T4/T105°C, T127°C, T130°C
Frequency	50 and/or 60Hz in AC
Electrical parameters	Ex eb: Umax=1000 V AC/DC; Imax=376A* (wiring with terminals); Imax=680A* (direct wiring) Ex ia/Ex ib: Ui<=≤750 V; Ii<=400A* Ex eb ia/Ex eb ib: Ui<=750 V; Um<=750 V; Ii<=400A* * The electrical parameters must be reduced, if relevant, according to the limitations of certified equipments used.
Standard certificate label	Made by self adhesive UV and corrosion resistant polyester, approved by certified Laboratory.
Optional accessories	Drain/breather valve Traffolyte/Stainless steel certificate label Cable glands Terminals Plug

MARECHAL ELECTRIC
BEYOND CONNECTIONS
5 avenue du chemin de Presles
94410 St-Maurice FRANCE
+33 (0) 145 116 000
contact@marechal.com

TECHNICAL DATASHEET
DS DECONTACTOR™

Date: 2023-02-16
Revision: 05

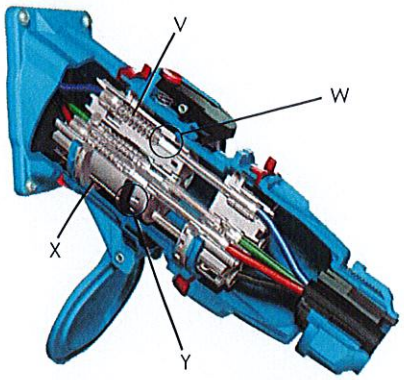
DS DECONTACTOR is a compact and waterproof plug and socket-outlet with integral switch for industrial purposes.

DS DECONTACTOR complies with the following regulations and standards(a) :
European Directives Low Voltage and RoHS (affixing of CE marking), REACH European Regulation,
standards IEC/EN 60309-1, IEC/EN 60309-4, IEC/EN 60947-3 (dealing with the load breaking capacities AC-22 and AC-23), UL 1682, UL 2682 (USA), CSA C22.2 N° 182.1-07 (Canada), GB/T 11918.1 (China).

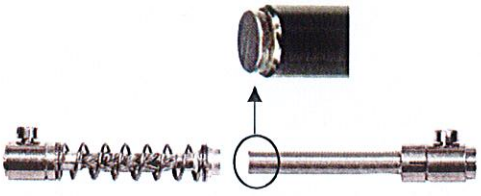
DS DECONTACTOR is certified by the following certification bodies:
LCIE (France), UL (USA), SAA (Australia), VDE (Germany), TR CU (Russia), CSA (Canada), CQC (China), Bureau Veritas Marine (DS9 only).

The use of DS DECONTACTOR facilitates the compliance with:
- electrical machinery to the "Machinery" European Directive on isolating device, and to standard EN 60204-1 : Safety of machinery-electrical equipment of machines
- electrical installation:
  * to national regulations relating to the improvement of the safety and health of workers at work in France, Italy, Spain, Belgium,
  * to installation standards : IEC 60364 (international), HD 60364 (European), NFPA 70 (USA) and NF C 15-100 (French) or other national transposition of IEC/HD 60364.

General information		DS6	DS9
(b)	I_n	90 A	150 A
	U_{max} (V AC/V DC)	1 000/1 500	1 000/1 500
(c)	Frequency (Hz)	≤ 500	≤ 500
(d)	Number of contacts	4P+E	4P+E
(e)	Number of keying positions	24	24
	Connection (min - max): mm²		
	Flexible conductors (Cu): main contacts	10 - 25	25 - 70
	Rigid/stranded conductors (Cu): main contacts	10 - 35	25 - 95
	Tightening torque - main contacts	4 Nm	9 Nm
	Wiring lugs	Option	Option
	Icc: conditional short circuit current (kA)		
	with gG fuse	10 kA	10 kA
	with RK1 NTD fuse	100 kA	100 kA
Auxiliaries / pilots contacts			
	I_n	5 A	10 A
	U_{max} (V AC/V DC)	500 V	400 V
(f)	Number of auxiliaries / pilots contacts	4 aux	6 aux
	Connection (min - max): mm²		
	Flexible wiring	2.2	2.2
	Tightening torque	Pre-wired	
Used as connector according to IEC/EN 61984: In		90 A	150 A
	U_{max}	1000 V AC	1000 V AC
		1500 V DC	1500 VDC
Breaking as plug and socket-outlet according to IEC/EN 60309-1		63 - 1 000	125 - 1 000
(g)	In (A) / Umax (V AC)	90 - 690	150 - 690
Breaking as switch according to IEC/EN 60947-3			
(g)	Category AC-22A: Ie (A) - Ue (V AC)	63 - 690	150 - 600
(g)	Category AC-23A: Ie (A) - Ue (V AC)	90 - 400	100 - 440
Breaking as plug and socket-outlet according to UL 2682			
	Power: HP	50	75
Increase of DC load-breaking capacity (contacts in series)		Option	Option
Number of operations			
	According to IEC/EN 60309-1 : Cos(Φ) 0,7	2 000	500
	According to UL 2682 : Cos(Φ) 0,75	6 000	6 000
Isolating distance		17 mm	18 mm
Thermal features			
	Temperature of use mini/maxi (°C)	-40/+60 °C	-40/+60 °C
	Storage temperature mini/max: (°C)	-40/+80 °C	-40/+80 °C
	Maximal temperature rise (Kmax)	37 K	33 K
	Time constant (to reach 63 % of Kmax)	26 mn	42 mn



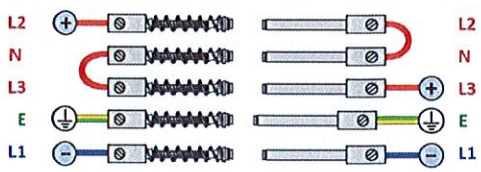
V : Contact spring
W : Arc chamber
X : Ejection spring
Y : Ejection ring



Contacts with silver nickel alloy tips (Ag/Ni : 85/15)



Spring assisted terminal:
Stainless steel ring



Contacts in series

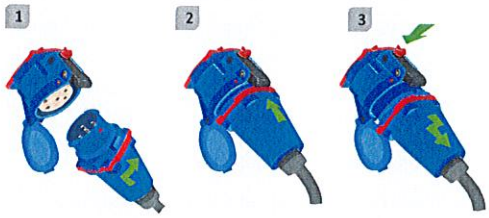
MARECHAL © The content of this document is subject to change without notice.
MARECHAL © Les informations du présent document sont susceptibles d'être modifiées sans préavis.

MARECHAL ELECTRIC
BEYOND CONNECTIONS
5 avenue du chemin de Presles
94410 St-Maurice FRANCE
+33 (0) 145 116 000
contact@marechal.com

TECHNICAL DATASHEET
DS DECONTACTOR™

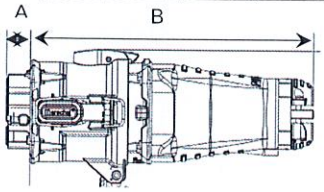
Date: 2023-02-16
Revision: 05

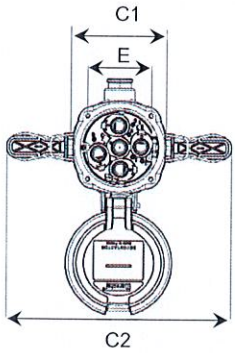
		DS6	DS9
Mechanical features			
(h) IP: connected device			
	Metal enclosure	IP66/IP67/IP69	
	Insulating enclosure	IP66/IP67/IP69	
(h) IP: lid/cap closed			
	Metal enclosure	IP66/IP67/IP69	
	Insulating enclosure	IP66/IP67/IP69	
(h) IP: socket-outlet with lid/cap opened		IP4X - Safety shutter	
(i) IK			
	Metal enclosure	IK09	IK10
	Insulating enclosure	IK09	IK09
Retaining/releasing device		Red release button	
(j) Casing			
	Metallic	Aluminium alloy	
	Insulating	GRP (poly)	
	Standard color	MARECHAL® Blue	
	Other colors	On request	
Vibrations resistance		✓	✓
Resistance to chemical agents			
	Metal enclosure	✓	✓
	Insulating enclosure	Contact us	
Protection against UV (according to UL 746C or equivalent)		f1	f1
Salt mist resistance			
	Metal enclosure	Contact us	
	Insulating enclosure	> 50 000 h	
Screws and bolts		Stainless steel	
Weight of inlet without accessory (≈)		0.7 kg	1.4 kg
Weight of socket-outlet without accessory (≈)		1.2 kg	2.3 kg
Main options			
Socket-outlet opening up to 180°		Included	Included
Self-returning lid		IP40	IP40
Inlet cap		IP66/IP67	IP66/IP67
Self-returning inlet lid		IP55	
Locking / padlocking		✓	✓
Screw locking			✓
Automatic self-ejection		✓	✓ (k)
Larger release button ("STOP")			
	Metal enclosure	✓	Included
	Insulating enclosure	✓	✓
Finger draw plates		✓	
(l) Electromagnetic compatibility (EMC)		✓	✓
Mounting accessories			
Poly sleeve: angle (°)		30/70	30
Metal sleeve: angle (°)		0/30/70	0/30/70
Poly box: angle (°)		30	
Metal box: angle (°)		20	
Poly box + poly sleeve: angle (°)		70	
Metal box + poly sleeve: angle (°)		30	30
Metal box + metal sleeve: angle (°)		0/30/70	0/30/70
Poly straight handle with built-in cable gland: range take (mm)		13 - 35	
Elastomer straight handle with built-in cable gland: range take (mm)			18 - 49
Threaded poly straight handle		M32 - M50	M50 - M63
Threaded metal straight handle		M25 - M50	M32 - M63
Poly straight handle + separated poly cable gland: range take (mm)		14 - 38	14 - 48
Metal straight handle + separated metal cable gland: range take (mm)		8 - 44	15 - 48
Spare parts			
Inlet or socket-outlet interior moulding		✓	✓
Inlet or socket-outlet contacts		✓	✓
Inlet or socket-outlet colored gasket		✓	✓
Inlet or socket-outlet casing		✓	✓
Socket-outlet casing gasket		✓	✓
Catalog: Web link		Click !	Click !



Dimensions

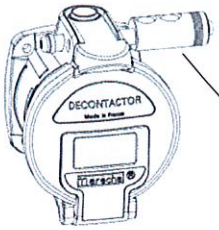
	DS6		DS9	
mm	GRP	Metal	GRP	Metal
A	25	25	27	27
B	207	241	313	299
C1	98	98	126	140
C2			322	322
E	66	66	81	81





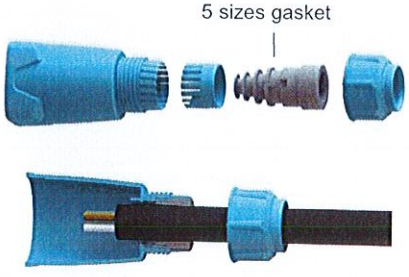
Finger draw plate





Locking pin for 2 padlocks

Poly straight handle with built-in cable gland



MARECHAL © The content of this document is subject to change without notice.
MARECHAL © Les informations du présent document sont susceptibles d'être modifiées sans préavis.

5 avenue du chemin de Presles
94410 St-Maurice FRANCE
+33 (0) 145 116 000
contact@marechal.com

(a) European Regulation REACH: registration, evaluation, authorisation and restriction of chemicals
IEC/EN 60309-1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"
IEC/EN 60309-4 : "Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock"
IEC/EN 60947-3 : "Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units"
IEC/EN 61984 : "Connectors – Safety requirements and tests"
UL 1682 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
UL 2682 : "Outline of Investigation for Switch-Rated Plugs and Receptacles"
CSA C22,2 No 182,1-07 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
GB/T 11918.1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"

(b) In : Rated current as defined by the manufacturer
(c) Other frequency: contact us
(d) Contacts with silver-nickel tips (Ag/Ni 85/15)
(e) Number of voltage / frequency / grid, keying positions
(f) Auxiliaries contacts are located on the plug and socket-outlet sides. Pilot contacts are only located on the socket-outlet side.
(g) For direct current applications : contact us
(h) IP : Degrees of protection provided by enclosures (IEC/EN 60529)
(i) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)
(j) GRP : Glass-reinforced technical plastic
(k) Option available for metal version only
(l) Suitable for EMC environments: use of metallic housings and accessories, and cable gland with shielding recovery.

MARECHAL © The content of this document is subject to change without notice.
MARECHAL © Les informations du présent document sont susceptibles d'être modifiées sans préavis.

MARECHAL ELECTRIC
5 avenue du chemin de Presles
94410 St-Maurice FRANCE
+33 (0) 145 116 000
contact@marechal.com

TECHNICAL DATASHEET
DS DECONTACTOR™

Date: 2021-08-31
Revision: 02

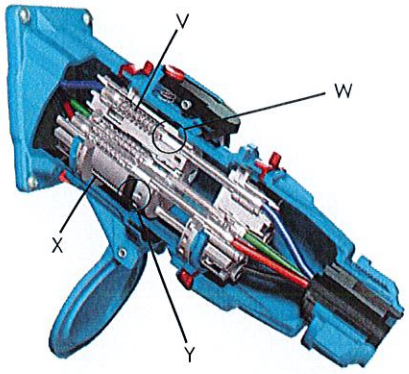
DS DECONTACTOR is a compact and waterproof plug and socket-outlet with integrated switch for industrial purposes.

DS DECONTACTOR complies with the following regulations and standards(a):
European Directives Low Voltage and RoHS (affixing of CE marking), REACH European Regulation,
standards IEC/EN 60309-1, IEC/EN 60309-4, IEC/EN 60947-3 (dealing with the load breaking capacities AC-22 and AC-23), UL 1682, UL 2682 (USA), CSA C22.2 N° 182.1-07 (Canada), GB/T 11918.1 (China).

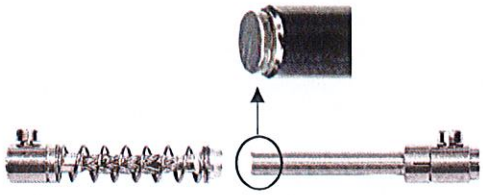
DS DECONTACTOR is certified by the following certification bodies:
LCIE (France), UL (USA), SAA (Australia), VDE (Germany), TR CU (Russia), CSA (Canada), CQC (China).

The use of DS DECONTACTOR facilitates the compliance with:
- electrical machinery to the "Machinery" European Directive on isolating device, and to standard EN 60204-1 : Safety of machinery-electrical equipment of machines
- electrical installation:
  * to national regulations relating to the improvement of the safety and health of workers at work in France, Italy, Spain, Belgium,
  * to installation standards : IEC 60364 (international), HD 60364 (European), NFPA 70 (USA) and NF C 15-100 (French) or other national transposition of IEC/HD 60364.

General information	DS1	DS3
(b) I_n	30 A	50 A
U_{max} (V AC/V DC)	690/1 000	1 000/1 500
(c) Frequency (Hz)	≤ 500	≤ 500
(d) Number of contacts	4P+E	4P+E
(e) Number of keying positions	24	24
Connection (min - max): mm²		
Flexible conductors (Cu): main contacts	2.5 - 6	6 - 16
Rigid/stranded conductors (Cu): main contacts	2.5 - 10	10 - 25
Tightening torque - main contacts	1.5 Nm	1.8 Nm
Wiring lugs	Option	Option
Icc: conditional short circuit current (kA)		
with gG fuse	10 kA	10 kA
with RK1 NTD fuse	100 kA	100 kA
Auxiliaries / pilots contacts		
I_n	30 A	16 A
U_{max} (V AC/V DC)	500 V	400 V
(f) Number of auxiliaries / pilots contacts	2 aux	4 aux
Connection (min - max): mm²		
Flexible wiring	2.5 - 6	1 - 2.5
Stranded wiring	2.5 - 10	1.5 - 4
Tightening torque	1.5 Nm	0.8 Nm
Used as connector according to IEC/EN 61984: In	30 A	50 A
U_{max}	690 V AC	1000 V AC
	1000 V DC	1500 V DC
Breaking as plug and socket-outlet according to IEC/EN 60309-1		
(g) In (A) / Umax (V AC)	30 - 690	50 - 690
Breaking as switch according to IEC/EN 60947-3		
(g) Category AC-22A: In (A) - Umax (V AC)	32 - 690	40 - 690
(g) Category AC-23A: In (A) - Umax (V AC)	32 - 480	50 - 400
Breaking as plug and socket-outlet according to UL 2682		
Power: HP	15	25
Increase of DC load-breaking capacity (contacts in series)	Option	Option
Number of operations		
According to IEC/EN 60309-1 : Cos(Φ) 0,6	2 000	2 000
According to UL 2682 : Cos(Φ) 0,75	6 000	6 000
Isolating distance	8 mm	13 mm
Thermal features		
Temperature of use mini/maxi (°C)	-40/+60 °C	-40/+60 °C
Storage temperature mini/max: (°C)	-40/+80 °C	-40/+80 °C
Maximal temperature rise (Kmax):	38 K	30 K
Time constant (to reach 63 % of Kmax)	21mn	23 mn



V : Contact spring
W : Arc chamber
X : Ejection spring
Y : Ejection ring



Contacts with silver nickel alloy tips (Ag/Ni : 85/15)



Spring assisted terminal:
Stainless steel ring



Contacts in series

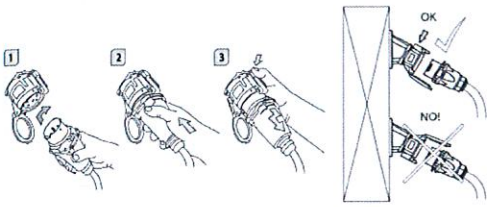
MARECHAL © The content of this document is subject to change without notice.
MARECHAL © Les informations du présent document sont susceptibles d'être modifiées sans préavis.

MARECHAL ELECTRIC
5 avenue du chemin de Presles
94410 St-Maurice FRANCE
+33 (0) 145 116 000
contact@marechal.com

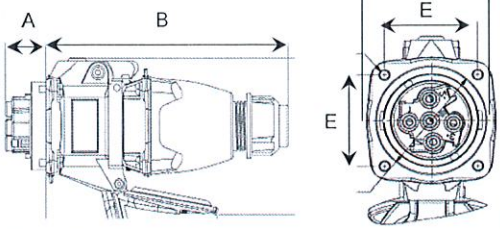
TECHNICAL DATASHEET
DS DECONTACTOR™

Date: 2021-08-31
Revision: 02

	DS1	DS3
Mechanical features		
(h) IP: connected device	IP54	IP54
IP: lid/cap closed	IP55	IP55
IP: socket-outlet with lid/cap opened	IP4X - Safety shutter	
(i) IK	IK09	IK09
Retaining/releasing device	Red release button	
(j) Casing	GRP (poly)	
Standard color	MARECHAL® Blue	
Other colors	On request	
Vibrations resistance	✓	✓
Resistance to chemical agents	Contact us	
Protection against UV (according to UL 746C or equivalent)	f1	f1
Salt mist resistance	> 50 000 h	
Screws and bolts	Stainless steel	
Weight of inlet without accessory (≈)	0.15 kg	0.20 kg
Weight of socket-outlet without accessory (≈)	0.26 kg	0.35 kg
Main options		
Socket-outlet opening up to 180°	Included	Included
Self-returning lid	IP55	IP55
Inlet cap	IP66/IP67	IP66/IP67
Self-returning inlet lid	IP55	IP55
Locking / padlocking	✓	✓
Automatic self-ejection	✓	✓
Larger release button ("STOP")	✓	✓
Finger draw plates	✓	✓
Industrial-domestic adapter	✓	
Mounting accessories		
Poly sleeve: angle (°)	30/70	30/70
Metal sleeve: angle (°)	0/30	0/30/70
Poly box: angle (°)	30	30
Metal box: angle (°)	20	20
Poly box + poly sleeve: angle (°)	70	70
Metal box + poly sleeve: angle (°)	30	30
Metal box + metal sleeve: angle (°)	0/30	0/30/70
Poly straight handle with built-in cable gland: range take (mm)	5 - 21	10 - 30
Threaded poly straight handle	M20 - M40	M20 - M40
Threaded metal straight handle	M20 - M32	M20 - M40
Poly straight handle + separated poly cable gland: range take (mm)	5 - 32	9 - 32
Metal straight handle + separated metal cable gland: range take (m	7 - 23	7 - 32
Spare parts		
Inlet or socket-outlet interior moulding	✓	✓
Inlet or socket-outlet contacts	✓	✓
Inlet or socket-outlet colored gasket	✓	✓
Inlet or socket-outlet casing	✓	✓
Socket-outlet casing gasket	✓	✓
Catalog: Web link	Click !	Click !



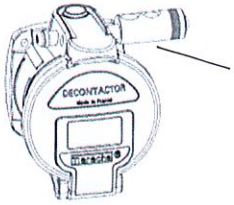
Dimensions



mm	DS1	DS3
A	15	17
B	166	179
C	69	80
E	48	55

Finger draw plates

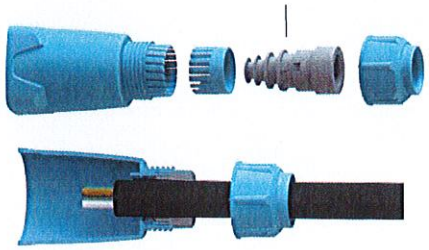




Locking pin for 2 padlocks

Poly straight handle with built-in cable gland

5 sizes gasket



(a) European Regulation REACH: registration, evaluation, authorisation and restriction of chemicals
IEC/EN 60309-1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"
IEC/EN 60309-4 : "Plugs, socket-outlets and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock"
IEC/EN 60947-3 : "Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units"
IEC/EN 61984 : "Connectors – Safety requirements and tests"
UL 1682 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
UL 2682 : "Outline of Investigation for Switch-Rated Plugs and Receptacles"
CSA C22,2 No 182,1-07 : "Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type"
GB/T 11918.1 : "Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements"

(b) In : Rated current as defined by the manufacturer
(c) Other frequency: contact us
(d) Contacts with silver-nickel tips (Ag/Ni 85/15)
(e) Number of voltage / frequency / grid, keying positions
(f) Auxiliaries contacts are located on the plug and socket-outlet sides. Pilot contacts are only located on the socket-outlet side.
(g) For direct current applications : contact us
(h) IP : Degrees of protection provided by enclosures (IEC/EN 60529)
(i) IK : Degrees of protection provided by enclosures against mechanical impacts (IEC/EN 62262)
(j) GRP : Glass-reinforced technical plastic

MARECHAL © The content of this document is subject to change without notice.
MARECHAL © Les informations du présent document sont susceptibles d'être modifiées sans préavis.