WTP FIRE AND GAS PANEL WIRING DIAGRAM
(50-LP-002)
WATER TREATMENT PACKAGE
(A-50000)

PSC

DOC. REF: PK2885-A-006

CROSSWIND

ROSETTI MARINO

REV.	DATE	DRN	CHKD	APPD	DESCRIPTION
02	09/01/25	SIA	PSC	RM	ACCEPTED FOR CONSTRUCTION (AFC)
01	10/12/24	SIA	PSC	RM	ISSUE FOR REVIEW (IFR)
00	07/10/24	SIA	PSC	RM	ISSUE FOR REVIEW (IFR)

TITLE : WTP FIRE AND GAS PANEL WIRING DIAGRAM
WATER TREATMENT PACKAGE
COVER PAGE

CONTRACT NO./TITLE CW-I-WP4-2023-05/HOLLANDSE KUST NOORD WIND PARK

SCALE : NTS

A3

DRAWING NO. 1724000448-MAC-DG-00036

SHEET 001

REV. 02

F.to UNI A3: 420mmx297mm

File Name : 1724000448-MAC-DG-00036 Rev. 02

REV.	DATA DATE	DESCRIZIONE DESCRIZIONE	DISEGN. DRAWN	CONTR. CHECK.	APPROV. APPROV.
1	23/09/2024	FOR CONSTRUCTION	D.O.	T.Z.	C.T.
0	16/08/2024	FOR APPROVAL	D.O.	T.Z.	C.T.

SIA FIRE FIGHTING SYSTEMS

S.I.A. - Safety Industrial Applications s.r.l.

Via Aldo Moro 6 20005 Pogliano Milanese (MI) – ITALY
Tel.: +39 02 35969811 – Fax: +39 02 93549537
Web: www.sia-italia.com E-mail: info@sia-italia.com

CLIENTE / CUSTOMER: PSC S.p.A.

PROGETTO / PROJECT: FIRE & GAS DETECTION SYSTEM FOR ELECTRICAL CONTAINER

COMMESSA N° / JOB N°: C24032

ARCHIVIO / FILE: C24032-WID-001_R1

A TERMINE DI LEGGE LA SIA s.r.l. SI RISERVA LA PROPRIETA' DEL PRESENTE DISEGNO E NE VIETA LA RIPRODUZIONE O LA COMUNICAZIONE A TERZI SENZA IL PROPRIO BENESTARE SCRITTO

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TITOLO / TITLE:

SIA-5319 CONTROL PANEL

WIRING AND DIMENSIONAL DRAWING

DISEGNO N° / DRAWING N°	FORM	SCALA / SCALE	FOGLIO / FOGLIO	DI / OF
C24032-WID-001	A3	--	1	21

REVISION INDEX

Sheet	Description	Revision 0	1	2	3
1	COVER	X	X		
2	REVISION INDEX	X	X		
3	WIRES COLOUR CODE AND STANDARDS	X			
4	POWER SUPPLY DISTRIBUTION	X			
5	SIA-5319-RACK-R SLOT S-0	X			
6	24V POWER SUPPLY DISTRIBUTION	X			
7	RACK CONNECTIONS	X			
8	RACK 5319 SIA-R	X			
9	SIA-5319-RACK-R SLOT 1/2	X			
10	SIA-5319-RACK-R SLOT 3/4	X			
11	SIA-5319-RACK 1 SLOT 0	X			
12	SIA-5319-RACK 1 SLOT 1/2/3	X			
13	SIA-5319-RACK 1 SLOT 4/5/6	X	X		
14	SIA-5319-RACK 1 SLOT 7/8/9	X			
15	SIA-5319-RACK 1 SLOT 10/11/12	X			
16	SIA-5319-RACK 1 SLOT 13	X			
17	RACKS DETAIL	X			
18	FRONT & SIDE VIEW	X			
19	TOP & BOTTOM VIEW	X			
20	INTERNAL MOUNTING PLATE VIEW	X	X		
21	MATERIAL LIST	X	X		
22	DEVICES TYPICAL CONNECTION	X	X		
23					
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REVISION INDEX

Sheet	Description	Revision 0	1	2	3	4	5	6
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REFERENCE DRAWINGS

DOC.No.	DESCRIPTION
C24032-DSH-001	FIRE & GAS SYSTEM INSTRUMENT DATASHEET
C24032-BLK-001	FIRE & GAS SYSTEM BLOCK DIAGRAM
C24032-LAY-001	FIRE & GAS SYSTEM LAYOUT

GENERAL NOTES

1) ISOLATED BARS ARE MOUNTED NEAR TERMINAL STRIPS FOR CABLE SHIELDS CONNECTIONS.

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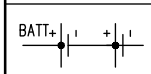
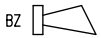
TITOLO

WIRING & DIMENSIONAL DRAWING REVISION INDEX

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R1	2	3
DRAWING N°			SHEET	FOLLOW

ELECTRICAL SYMBOLS

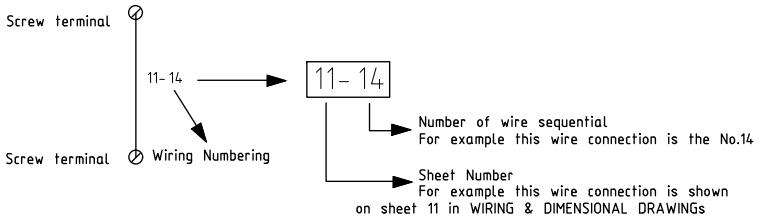
SYMBOL	DESCRIPTION
	FUSED SWITCH
	AUTOMATIC SWITCH
	PROTECTION EARTH
	INSTRUMENT EARTH
	BATTERIES
	POWER SUPPLY
	BATTERY CHARGER
	TEST BATTERY RESISTOR
	TERMINAL WITH SCREW
	TERMINAL BOARD LABEL
	LOCAL SOUNDER
	POWER SUPPLY FILTER

WIRING IDENTIFICATION

DESCRIPTION	IDENTIFIC.	COLOUR	TYPE & WIRING SIZE (mm2)
AC PHASE	L	BROWN	Unipolar cable - FS17 - 450/750 V, Cross-sec. 2.5
AC NEUTRAL	N	BLUE	Unipolar cable - FS17 - 450/750 V, Cross-sec. 2.5 & 1.5
PROTECTION EARTH	PE	YELLOW/GREEN	Unipolar cable - FS17 - 450/750 V, Cross-sec. 2.5 & 6
POSITIVE DC POWER	+	RED	Unipolar cable - FS17 - 450/750 V, Cross-sec. 1.5
NEGATIVE DC POWER	-	BLACK	Unipolar cable - FS17 - 450/750 V, Cross-sec. 1.5
DC SIGNAL		WHITE	Unipolar cable - FS17 - 450/750 V, Cross-sec. 1
RELAY SIGNAL (FREE VOLTAGE)		ORANGE	Unipolar cable - FS17 - 450/750 V, Cross-sec. 1

ACCORDING TO: CEI EN 60445
ALL INTERNAL WIRES: CPR Compliant 305/2011/EU (Standard: EN50575:2014+A1:2016 Class Cca-S3, d1, a3)

WIRING NUMBERING PHILOSOFY



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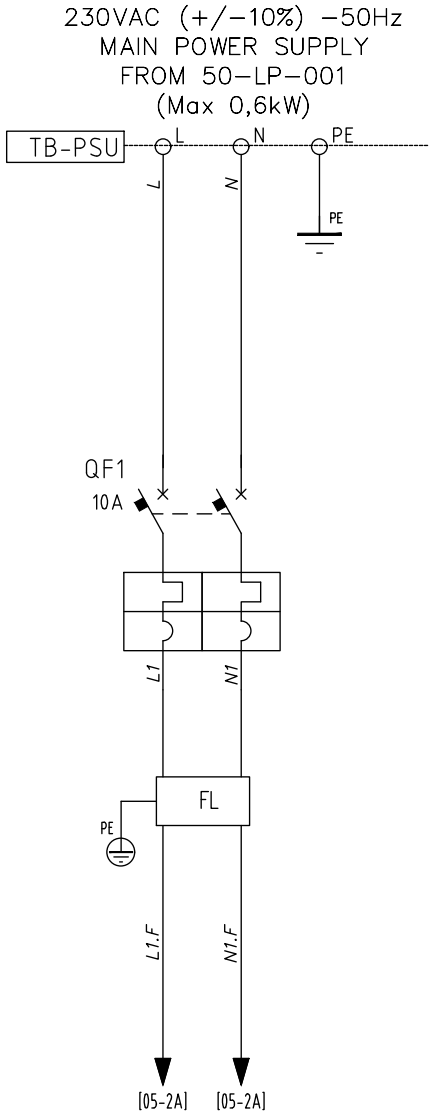
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TITOLO
WIRING & DIMENSIONAL DRAWING
WIRES COLOUR CODE AND STANDARDS
TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	3	4
DRAWING N°			SHEET	FOLLOW



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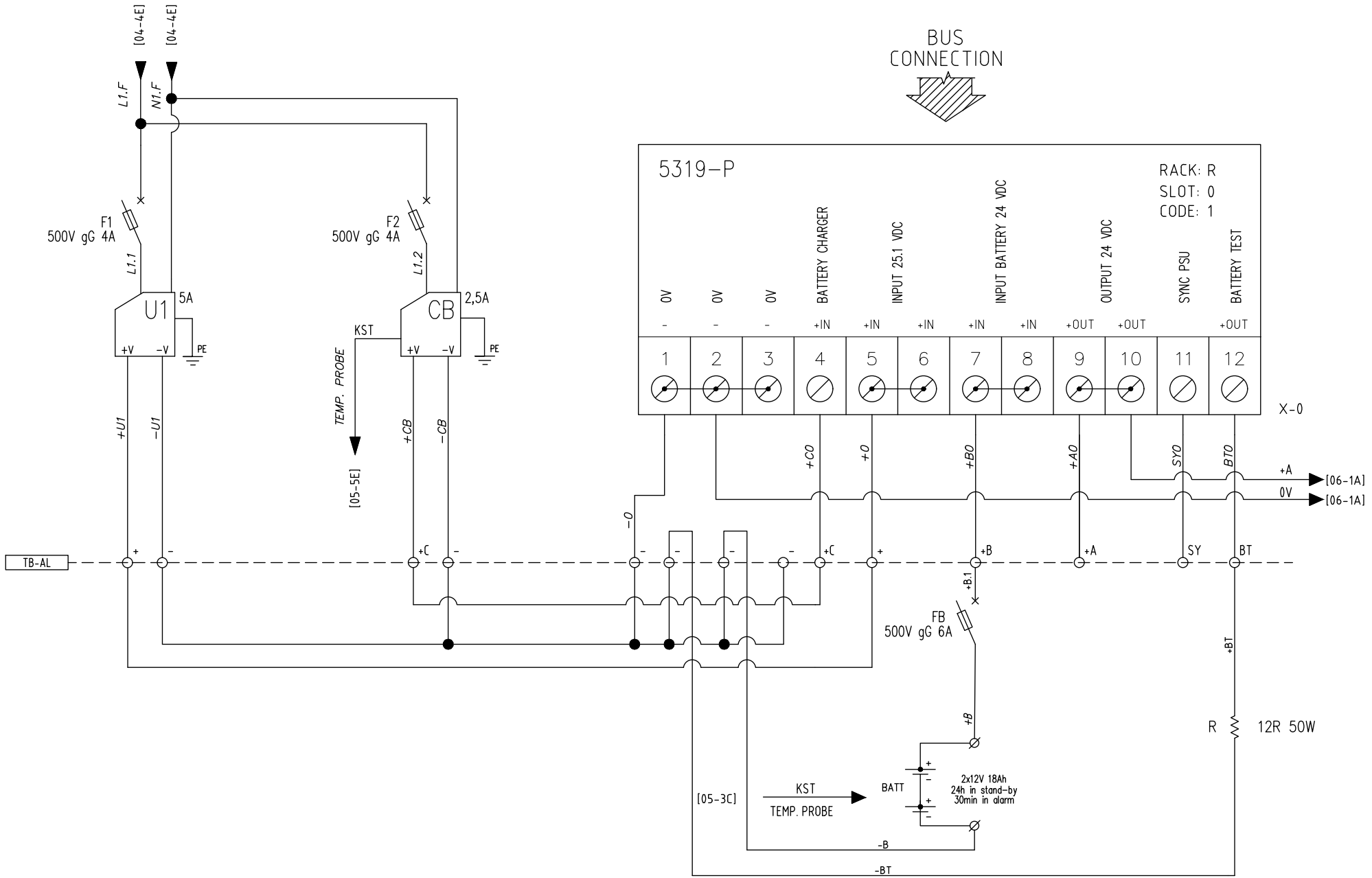
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TITOLO

WIRING & DIMENSIONAL DRAWING
POWER SUPPLY DISTRIBUTION

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	4	5
DRAWING N°			SHEET	FOLLOW



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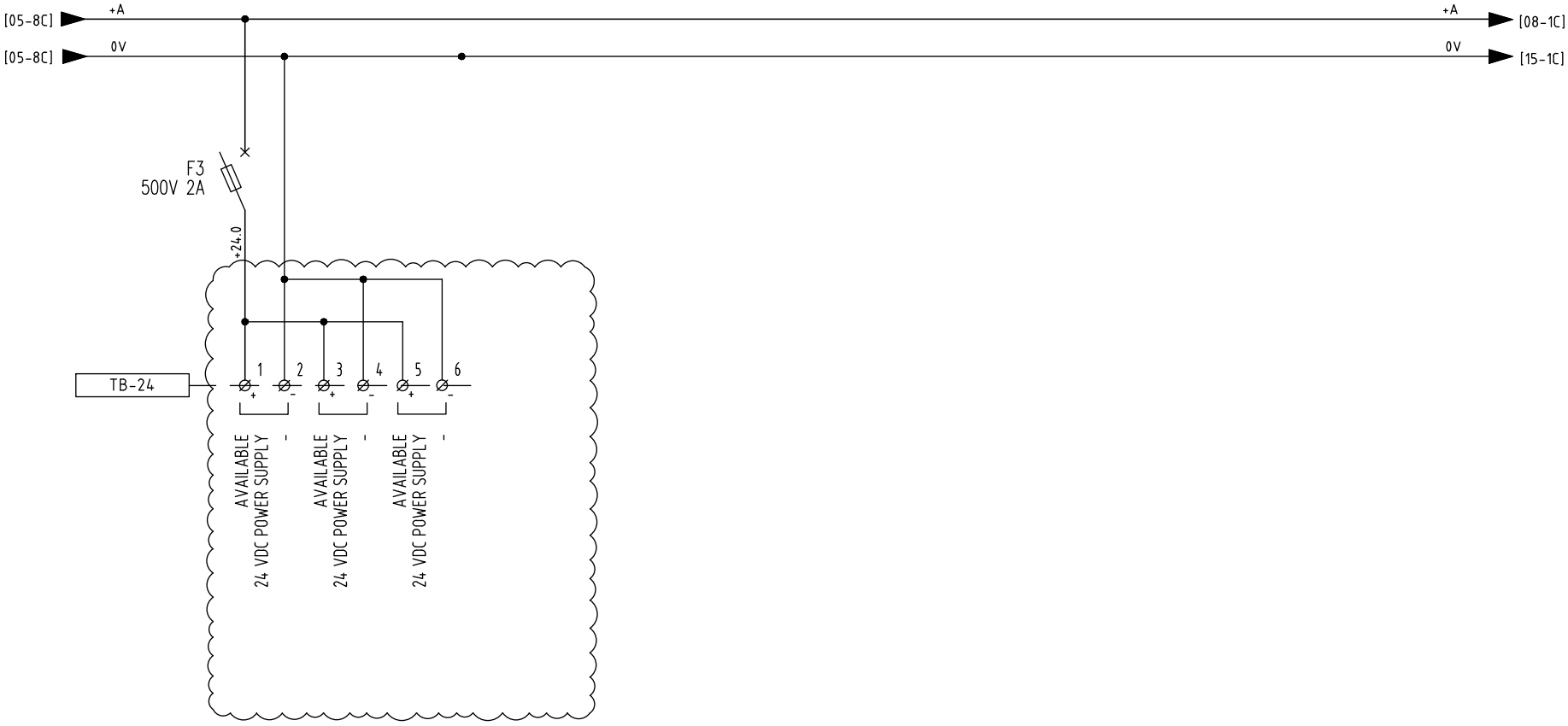
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TITOLO
WIRING & DIMENSIONAL DRAWING
SIA-5319-RACK-R SLOT S-0

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	5	6
DRAWING N°			SHEET	FOLLOW



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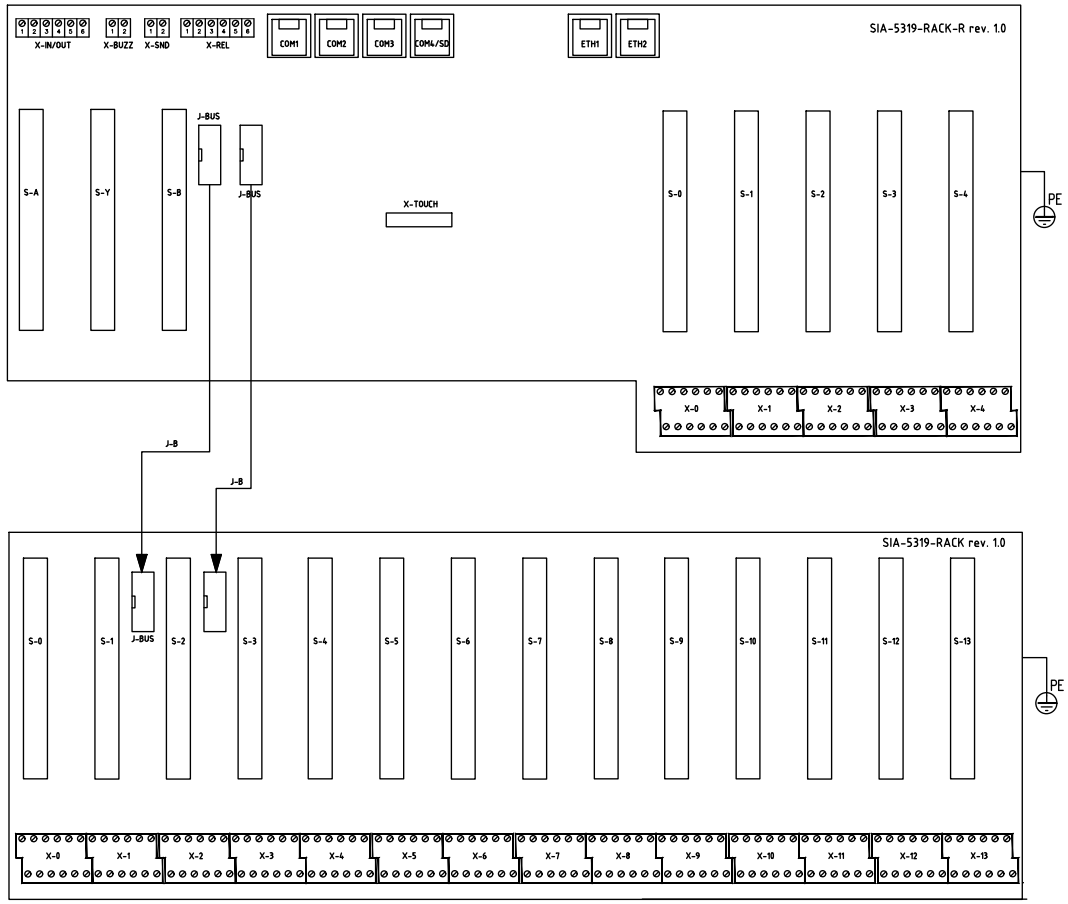
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TITOLO

WIRING & DIMENSIONAL DRAWING
24V POWER SUPPLY DISTRIBUTION

TITLE

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R0	6	7



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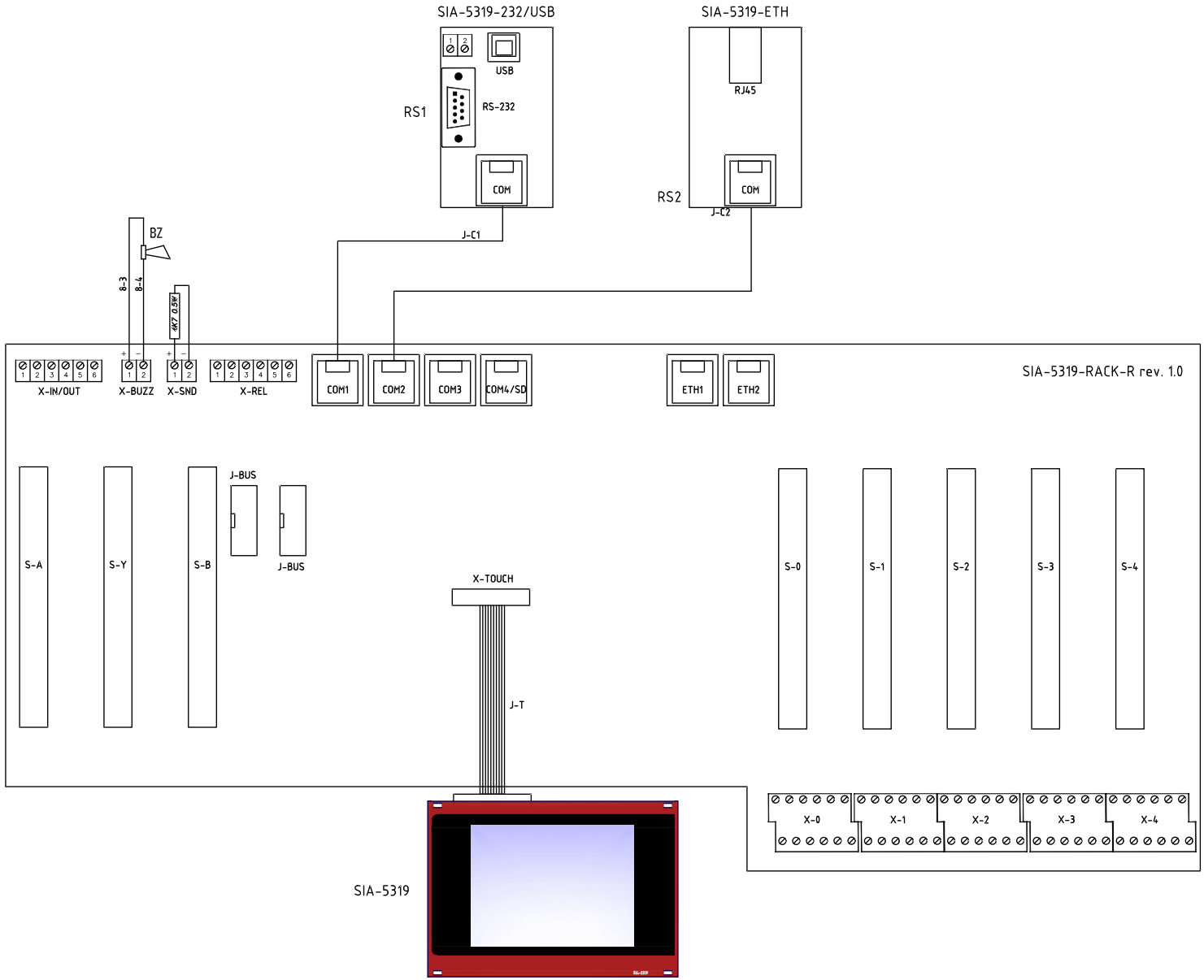
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TITOLO
WIRING & DIMENSIONAL DRAWING
RACK CONNECTIONS

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	7	8
DRAWING N°			SHEET	FOLLOW



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TITOLO

WIRING & DIMENSIONAL DRAWING
RACK 5319 SIA-R

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	8	9
DRAWING N°			SHEET	FOLLOW



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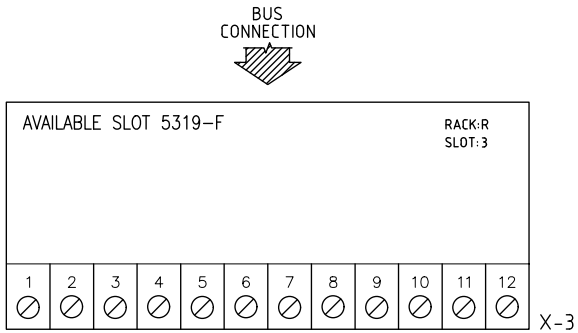
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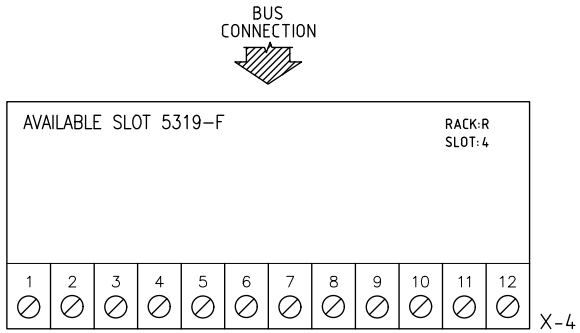
TITOLO

WIRING & DIMENSIONAL DRAWING SIA-5319-RACK-R SLOT 1/2

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	9	10
DRAWING N°			SHEET	FOLLOW





SIA FIRE FIGHTING SYSTEMS

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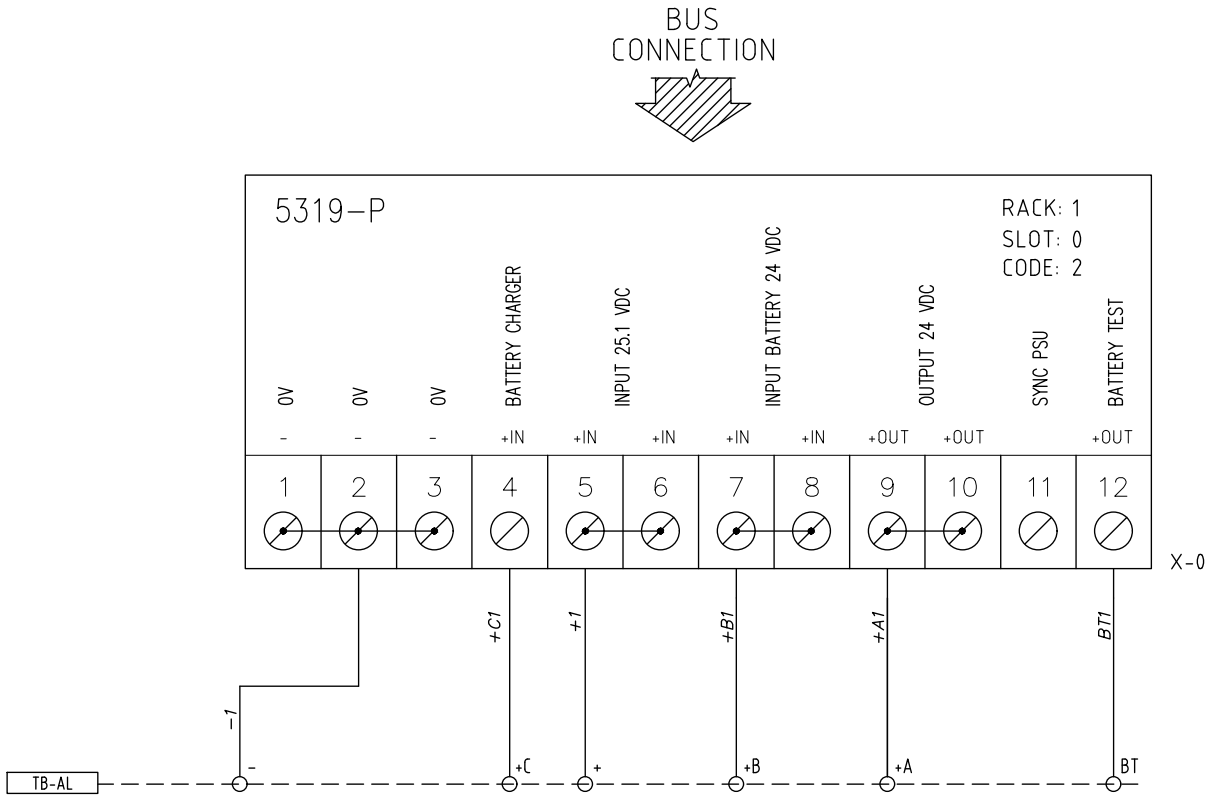
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TITOLO
WIRING & DIMENSIONAL DRAWING SIA-5319-RACK-R SLOT 3/4
TITLE

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R0	10	11



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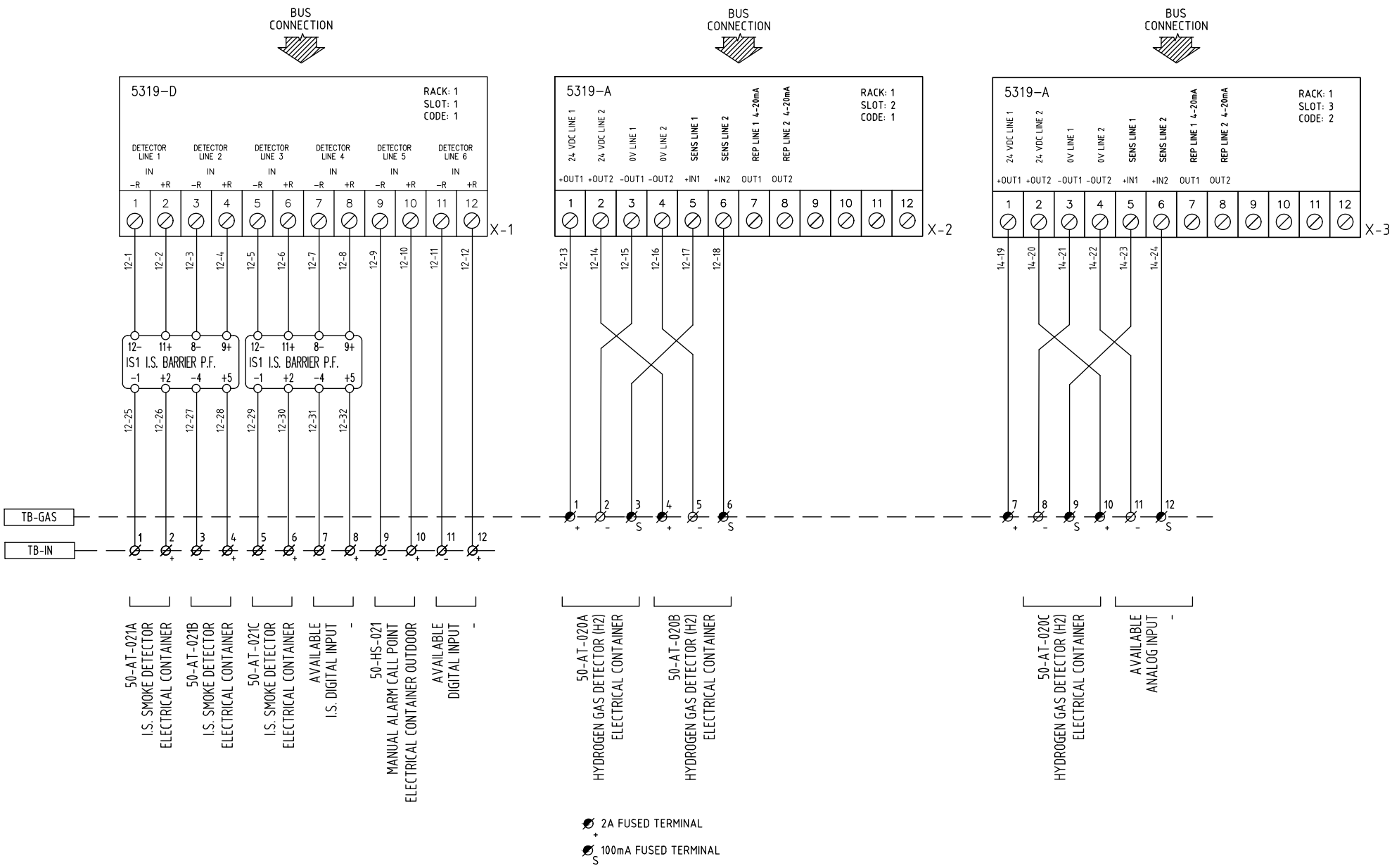
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TITOLO
WIRING & DIMENSIONAL DRAWING
SIA-5319-RACK-1 SLOT 0

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	11	12
DRAWING N°			SHEET	FOLLOW



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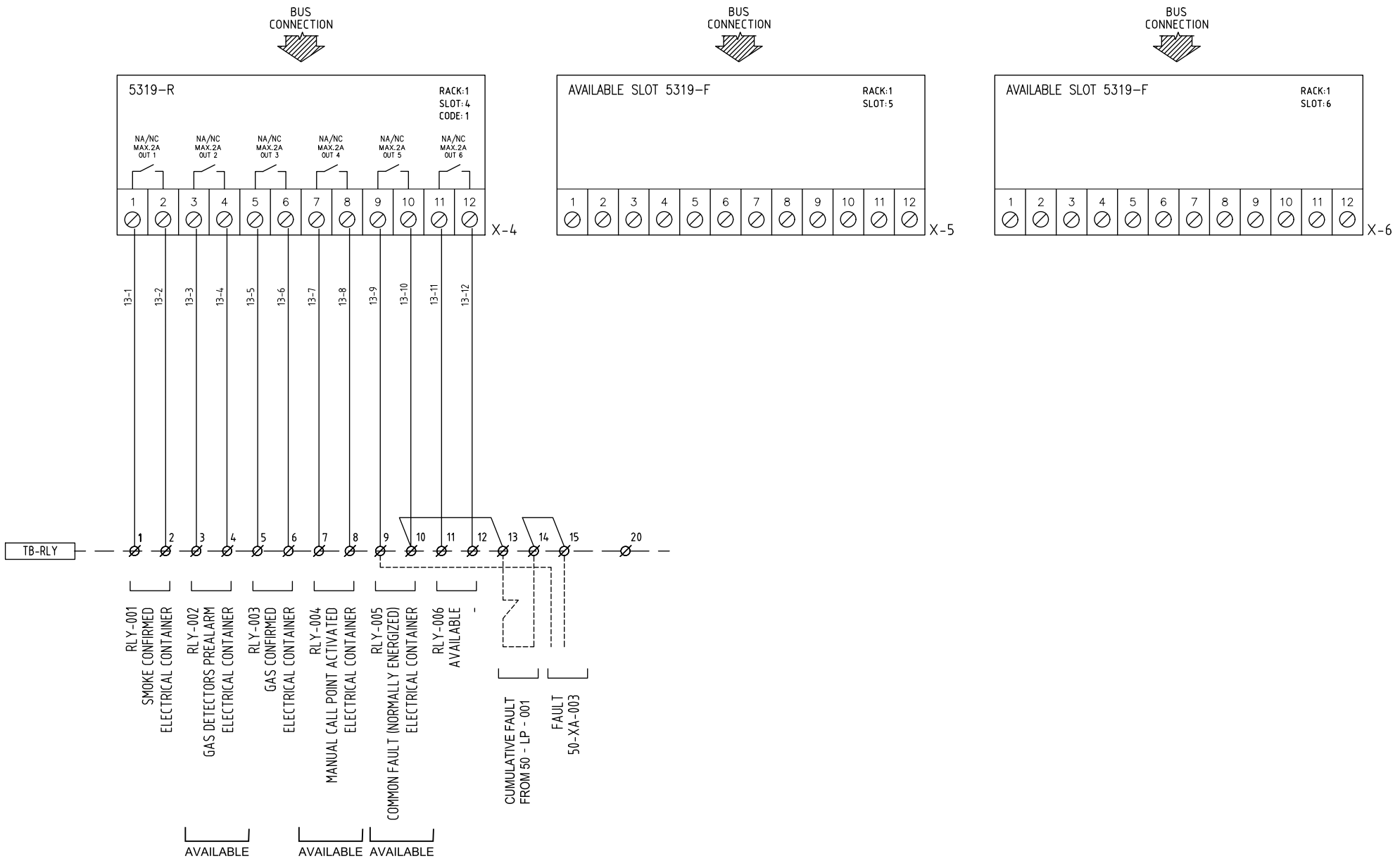
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TITOLO
WIRING & DIMENSIONAL DRAWING
SIA–5319–RACK–1 SLOT 1/2/3

TITLE

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032–WID–001	A3	R0	12	13



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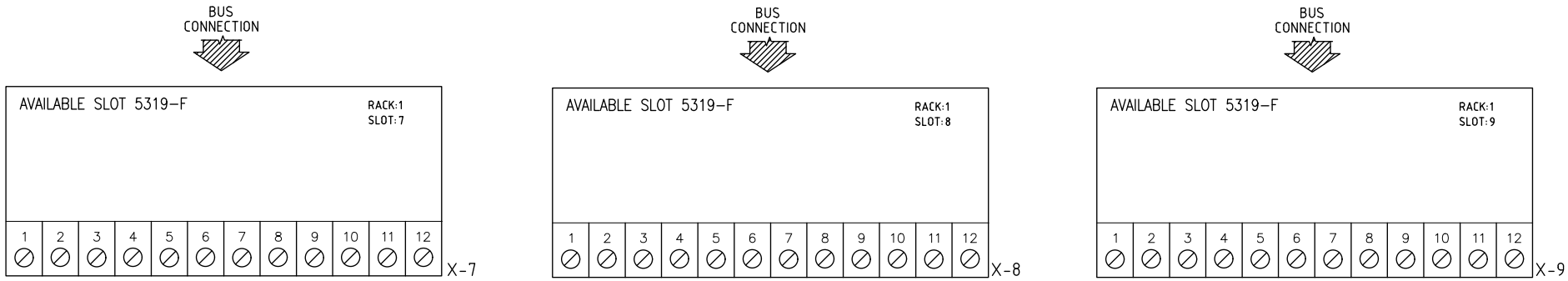
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TITOLO

WIRING & DIMENSIONAL DRAWING
SIA-5319-RACK-1 SLOT 4/5/6

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R1	13	14
DRAWING N°			SHEET	FOLLOW



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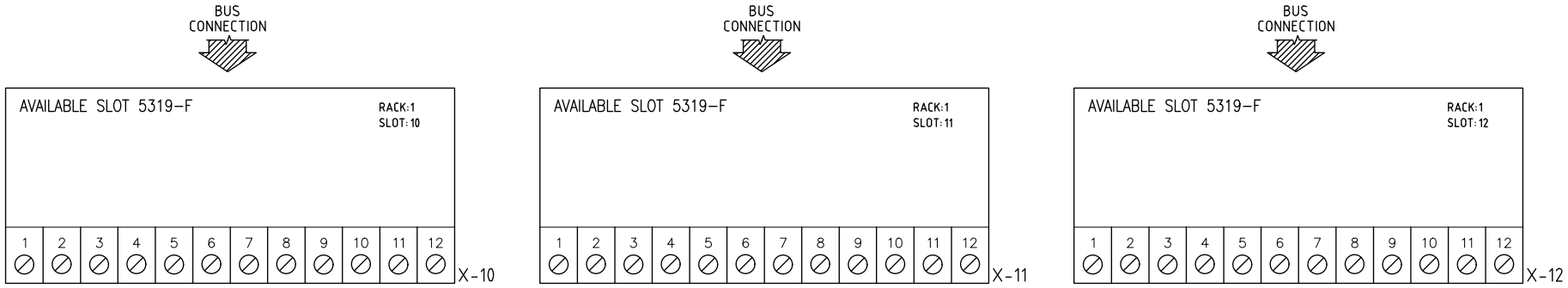
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TITOLO

WIRING & DIMENSIONAL DRAWING SIA-5319-RACK-1 SLOT 7/8/9

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	14	15
DRAWING N°			SHEET	FOLLOW



SIA FIRE FIGHTING SYSTEMS

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Via Aldo Moro 6 20005 Pogliano Milanese (MI) – ITALY
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Web: www.sia-italia.com E-mail: info@sia-italia.com

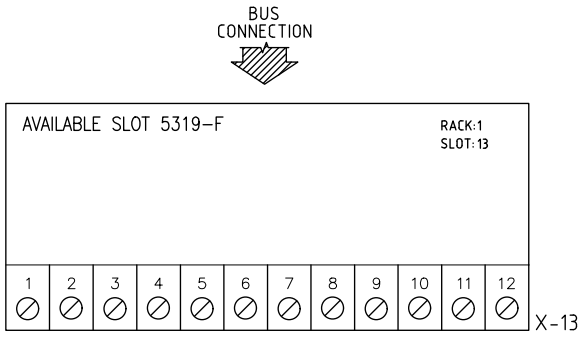
A TERMINE DI LEGGE LA SIA s.r.l. SI RISERVA LA PROPRIETA' DEL PRESENTE DISEGNO E NE VIETA LA RIPRODUZIONE O LA COMUNICAZIONE A TERZI SENZA IL PROPRIO BENESTARE SCRITTO

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TITOLO / TITLE

WIRING & DIMENSIONAL DRAWING
SIA-5319-RACK-1 SLOT 10/11/12

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R0	15	16



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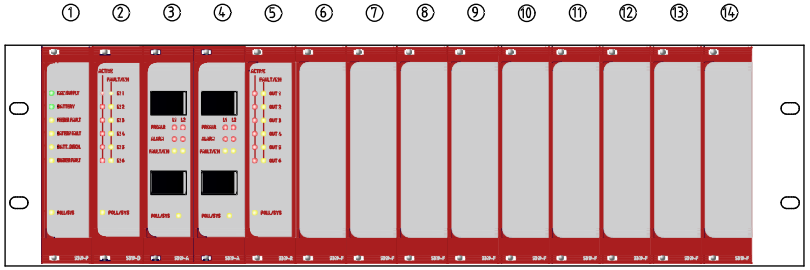
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TITOLO / TITLE

WIRING & DIMENSIONAL DRAWING
SIA-5319-RACK-1 SLOT 13

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R0	16	17





R24 R25 R26 R27 R28

SIA-5319-RACK-R					
POS.	BOARD	DESCRIPTION	POS.	BOARD	DESCRIPTION
1	5319-C	CPU MODULE	8	5319-F	AVAILABLE SLOT
2	5319-Y	SYSTEM MODULE			
3	5319-C	CPU MODULE			
4	5319-P	POWER CONTROL MODULE			
5	5319-E	ADDRESSABLE LOOP MODULE			
6	5319-F	AVAILABLE SLOT			
7	5319-F	AVAILABLE SLOT			

R25 R27 R29 R31 R35

SIA-5319-RACK (1)					
POS.	BOARD	DESCRIPTION	POS.	BOARD	DESCRIPTION
1	5319-P	POWER CONTROL MODULE	8	5319-F	AVAILABLE SLOT
2	5319-D	6 SUPERV. INPUT MODULE	9	5319-F	AVAILABLE SLOT
3	5319-A	4-20mA INPUT MODULE	10	5319-F	AVAILABLE SLOT
4	5319-A	4-20mA INPUT MODULE	11	5319-F	AVAILABLE SLOT
5	5319-R	6 RELAY OUTPUT MODULE	12	5319-F	AVAILABLE SLOT
6	5319-F	AVAILABLE SLOT	13	5319-F	AVAILABLE SLOT
7	5319-F	AVAILABLE SLOT	14	5319-F	AVAILABLE SLOT

SIA® FIRE FIGHTING SYSTEMS

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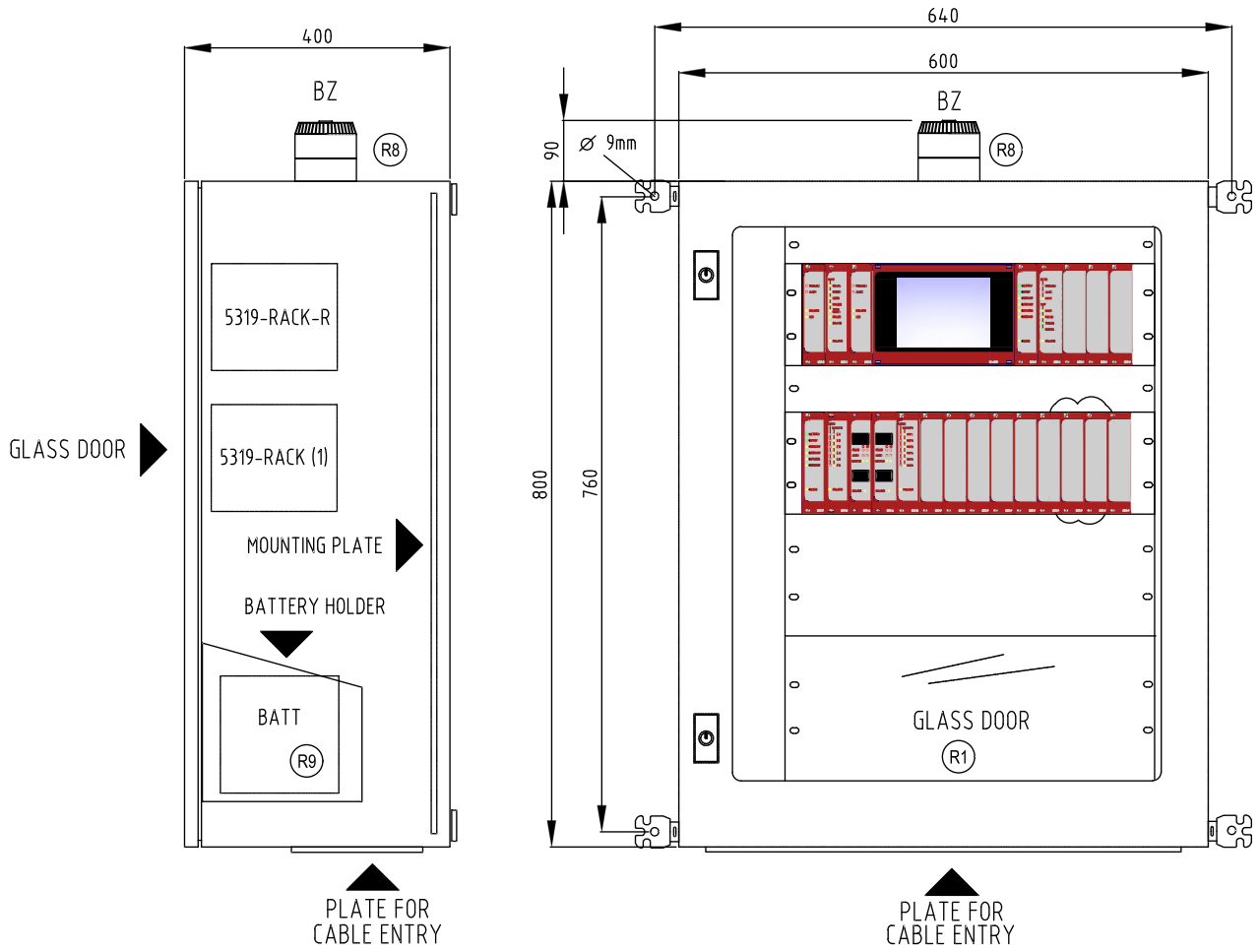
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TITOLO
WIRING & DIMENSIONAL DRAWING
RACKS DETAIL
TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R0	17	18
DRAWING N°			SHEET	FOLLOW



PANEL DETAILS:

- ALL WIRE ARE IN TYPE OF ADEGUATE SECTION
- EACH ELECTRICAL TERMINATION AND EQUIPMENT WITH TAG NUMBER & TERMINAL
- INLET POWER 230 Vac - 50HZ - 0.6 kW MAX
- PROTECTION DEGREE: IP54
- CABINET COLOR: RAL 7035
- DIMENSION 600 w x 400 d x 800 h (mm)

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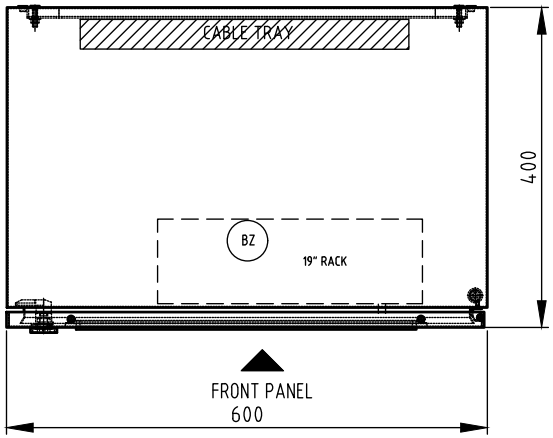
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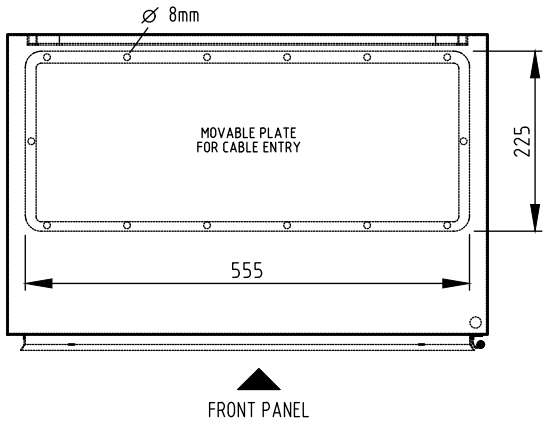
TITOLO / TITLE: WIRING & DIMENSIONAL DRAWING FRONT & SIDE VIEW

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R0	18	19

TOP VIEW



BOTTOM VIEW



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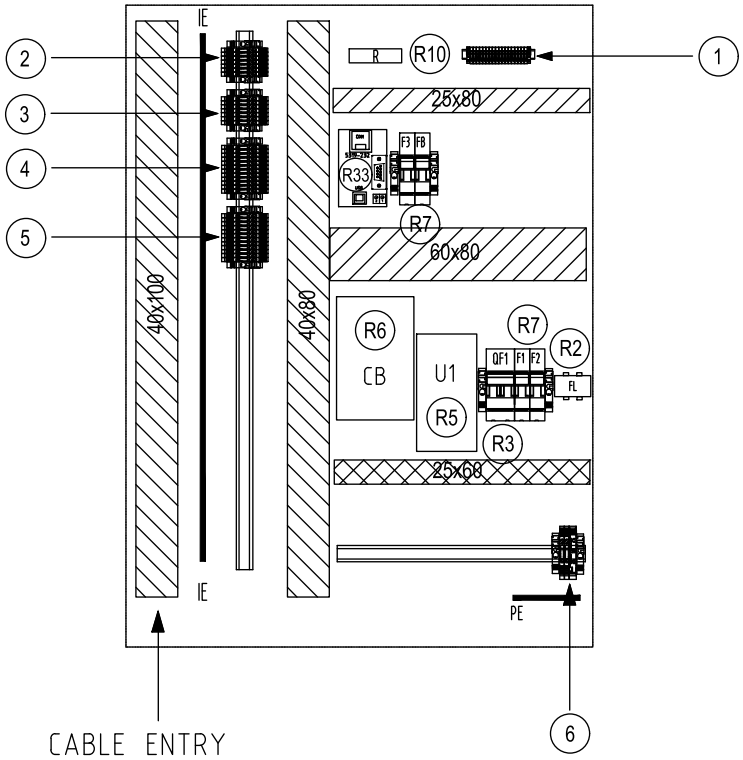
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TITOLO / TITLE

WIRING & DIMENSIONAL DRAWING TOP & BOTTOM VIEW

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R0	19	20

INTERNAL MOUNTING PLATE - FRONT VIEW



R11 R12 R13 R14

TERMINAL BOARDS		
POS.	DESCRIPTION	Q.ty
1	TB-AL	19
2	TB-24	6
3	TB-IN	12
4	TB-GAS	12
5	TB-RLY	20
6	TB-PSU	3
7		
8		
9		
10		
11		
12		
13		
14		
15		

24VDC CABLE DUCT

220VAC CABLE DUCT

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TITOLO
WIRING & DIMENSIONAL DRAWING
INTERNAL MOUNTING PLATE VIEW

TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R1	20	21
DRAWING N°			SHEET	FOLLOW

MATERIAL LIST

REF. (Rxx)	Q.ty	DESCRIPTION	MANUFACT.	MODEL	LABEL
R1	1	PANEL 800Hx600Wx400D c/w ACCESSORIES	DKC	R5CEX0864	
R2	1	SUPPRESSOR FILTER	SCHAFFNER	FN2010-6-06	FL
R3	1	CIRCUIT BREAKER 10A	SCHNEIDER ELECTRIC	A9F64210 - Curve C	QF1
R4					
R5	1	POWER SUPPLY 10A	WEIDMULLER	PRO ECO 120W 5A	U1
R6	1	BATTERY CHARGER 2,5A	BENTEL	BAQ60T24	CB
R7	4	FUSE HOLDER WITH FUSE (RATING IN RELEVANT SH.)	SCHNEIDER ELECTRIC	A9N15636	FB, F1, F2, F3
R8	1	HORN	ROSHNI	ROLP-V	BZ
R9	2	BATTERIES	ZENITH (or equivalent)	12V 18Ah	BATT
R10	1	TEST BATTERY RESISTANCE	CGS-TYCO	HSC50 12R	R
R11	19	FEED-THRU TERMINAL	CONTACLIP	RK 1,5-4/15	TB-AL
R12	2+1	FEED-THRU TERMINAL	WEIDMULLER	WDU6+WPE6 - 6 mm2	TB-PSU
R13	42	FEED-THRU TERMINAL	WEIDMULLER	WDU2.5 - 2.5 mm2	TB-24, TB-IN, TB-GAS, TB-RLY
R14	8	FUSED TERMINAL	WEIDMULLER	WSI6 - 6 mm2	TB-GAS
R15					
R16					
R17					
R18					
R19					
R20					
R21					
R22					
R23					
R24	1	OPERATOR PANEL	SIA	SIA-5319-RACK-R	
R25	1	RACK FOR MODULES	SIA	SIA-5319-RACK	
R26	2	CPU CARD	SIA	5319-C	
R27	2	POWER CONTROL CARD	SIA	5319-P	
R28	1	COMMON SIGNALING CARD	SIA	5319-Y	
R29	1	6 DIGITAL SPRV. INPUT CARD	SIA	5319-D	
R30					
R31	1	6 RELAY OUTPUT CARD	SIA	5319-R	
R32					
R33	1	RS-232 SERIAL INTERFACE CARD	SIA	SIA-5319-232/USB	RS1
R34					
R35	2	DUAL CHANNEL 4-20 mA ANALOG INPUT CARD	SIA	5319-A	
R36					

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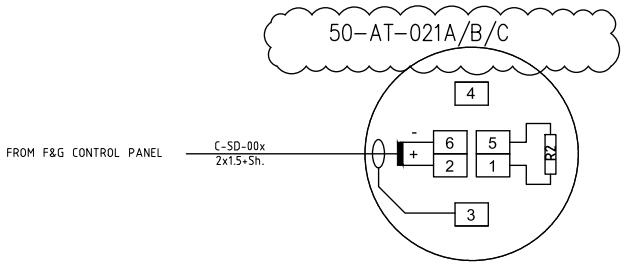
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TITOLO
WIRING & DIMENSIONAL DRAWING
MATERIAL LIST

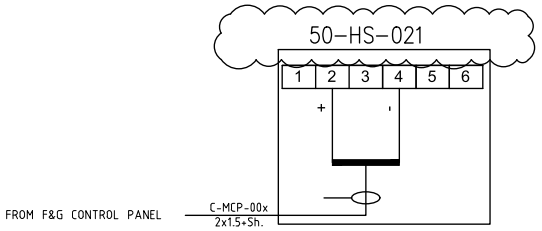
TITLE

DISEGNO N°	FORM	REV	FOGLIO	SEGUE
C24032-WID-001	A3	R1	21	22
DRAWING N°			SHEET	FOLLOW

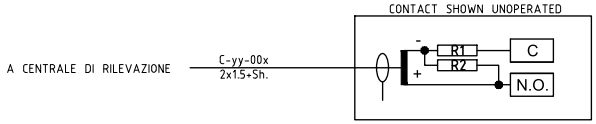
INTRINSICALLY SAFE SMOKE DETECTOR



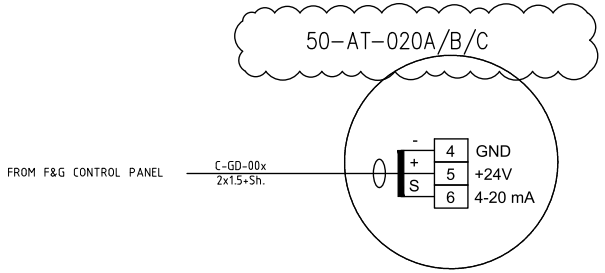
MANUAL ALARM CALL POINT



DIGITAL INPUTS ON 5319-D CARD



HYDROGEN GAS DETECTOR (H2)



RESISTOR LEGEND

R1= 820R - 2 Watt
R2= 4k7R - 1/2 Watt

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TITOLO / TITLE: WIRING & DIMENSIONAL DRAWING
DEVICES TYPICAL CONNECTION

DISEGNO N° / DRAWING N°	FORM	REV	FOGLIO / SHEET	SEGUE / FOLLOW
C24032-WID-001	A3	R1	22	-