

Wiring diagram:

SELF-PROPELLED TROLLEY

SERIES: SGAE ±90° R 20/2



customer:

Ford

n. order:

2769

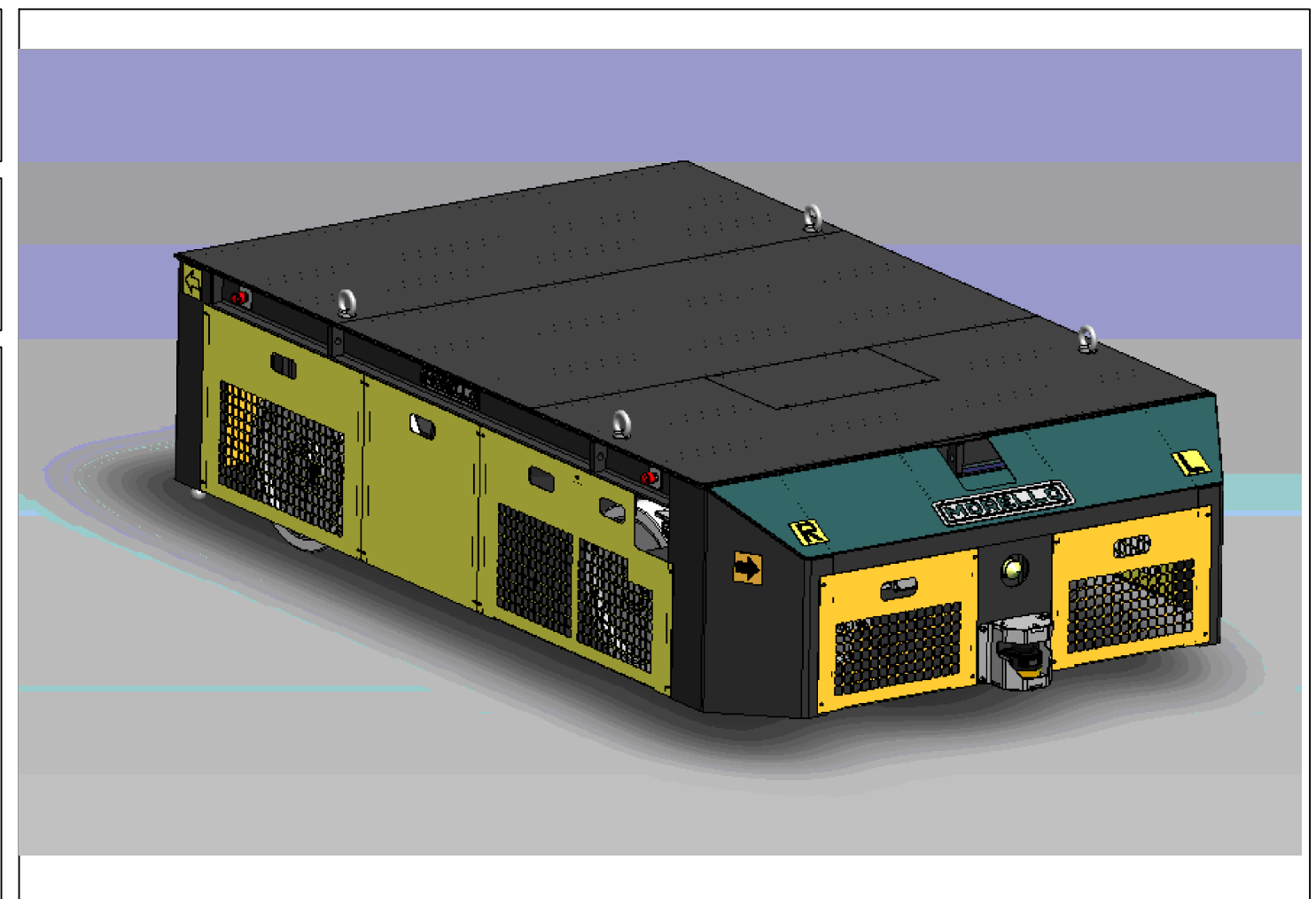
specifications:

USA

Certification: CSA
Feeding: 48V
Control voltage: 24V
Operating Temperature: 0°C...+40°C

Scope: 20t
Axles and wheels: 2 axles / 1 steering axle / 2 drive wheels 2 idler wheels

Securities:
4 x red mushroom emergency stop buttons
2 yellow flashers and 1 beeper
1 HORN
2 steering sensors 1 steering encoder
2 LASER SCANNERS
2 negative brakes in traction motors



REV.	MODIFICA	DATA	FIRMA
02	AS_BUILT AND REPLACE FUSE	18/09/26	R.G.
01	CHANGE SYMBOLS FROM IEC TO ANSI	03/07/26	R.G.

COMMESSA M2769

FORD

MORELLO

DATA 03/07/2026
DOC.Nr. M2769_1
FILE M2769_REV2_EN
DISEGN. R.G.
APPR.

DOCUMENTO SGAE ±90° R 20/2
COVER

SCALA	
Taglia A3	Fogli Totali 49
Foglio 1	Foglio Seguento 1A

STANDARD

CE STANDARD

Conductor color

Black (BK) :	MAIN CURRENT CIRCUITS FOR DIRECT AND ALTERNATING VOLTAGE
Light Blue (LBU):	NEUTRAL CONDUCTOR FOR ALTERNATING VOLTAGE
Red (RD) :	AC VOLTAGE CONTROL CIRCUITS
Blue (bu):	CONTROL CIRCUITS FOR DC VOLTAGE
Orange (OG) :	EXTERNAL RING/VOLTAGE WIRES BEFORE MAIN SWITCH
green-yellow (gnye):	PROTECTIVE CONDUCTOR

Leading cross-section

ALL CONDUCTORS NOT MARKED FOR 24V DC: 0.5 mm² / blue

Color

Black:	(BK)
brown:	(BN)
Red:	(RD)
Orange:	(OG)
Yellow:	(YE)
Green:	(GN)
Blue:	(BU)
light blue:	(LBU)
purple:	(VT)
Grey:	(GY)
White:	(WH)
Pink:	(PK)
Gold:	(GD)
Turquoise:	(TQ)
Silver:	(SR)
light blue:	(PB)
Transparency:	(TR)
Green/Yellow:	(GN/YE)
Screen:	(SH)

UL/CSA STANDARD

Conductor color

Black (BK) :	MAIN CURRENT CIRCUITS FOR DIRECT AND ALTERNATING VOLTAGE OPERATING AT THE SUPPLY VOLTAGE
Red (RD) :	control system for ungrounded sieved current operating at a voltage lower than the supply voltage
White (wh):	grounded flood current control circuit, regardless of voltage
Blue (bu):	CONTROL CIRCUITS PROTECTED FOR DC VOLTAGE
White/Blue (Wh/Bu):	Common grounded DC current
Orange (OG) :	Ungrounded AC or DC power cords that remain energized when the main disconnecter is turned off
White/Orange (Wh/Og):	grounded AC or DC power wires that provide power when the main disconnecter is disconnected
Green/Yellow (GN/YE):	PROTECTIVE CONDUCTOR

Leading cross-section

ALL CONDUCTORS NOT MARKED FOR 24V DC: 22AWG

ALL SINGLE-CORE CABLES INSIDE THE CONTROL CABINETS ARE OF THE LAPP ÖLFLEX® WIRE MS 2.1/MULTI-STANDARD SC 2.1 SERIES
Internal wiring sized in according with UL508A and NEC

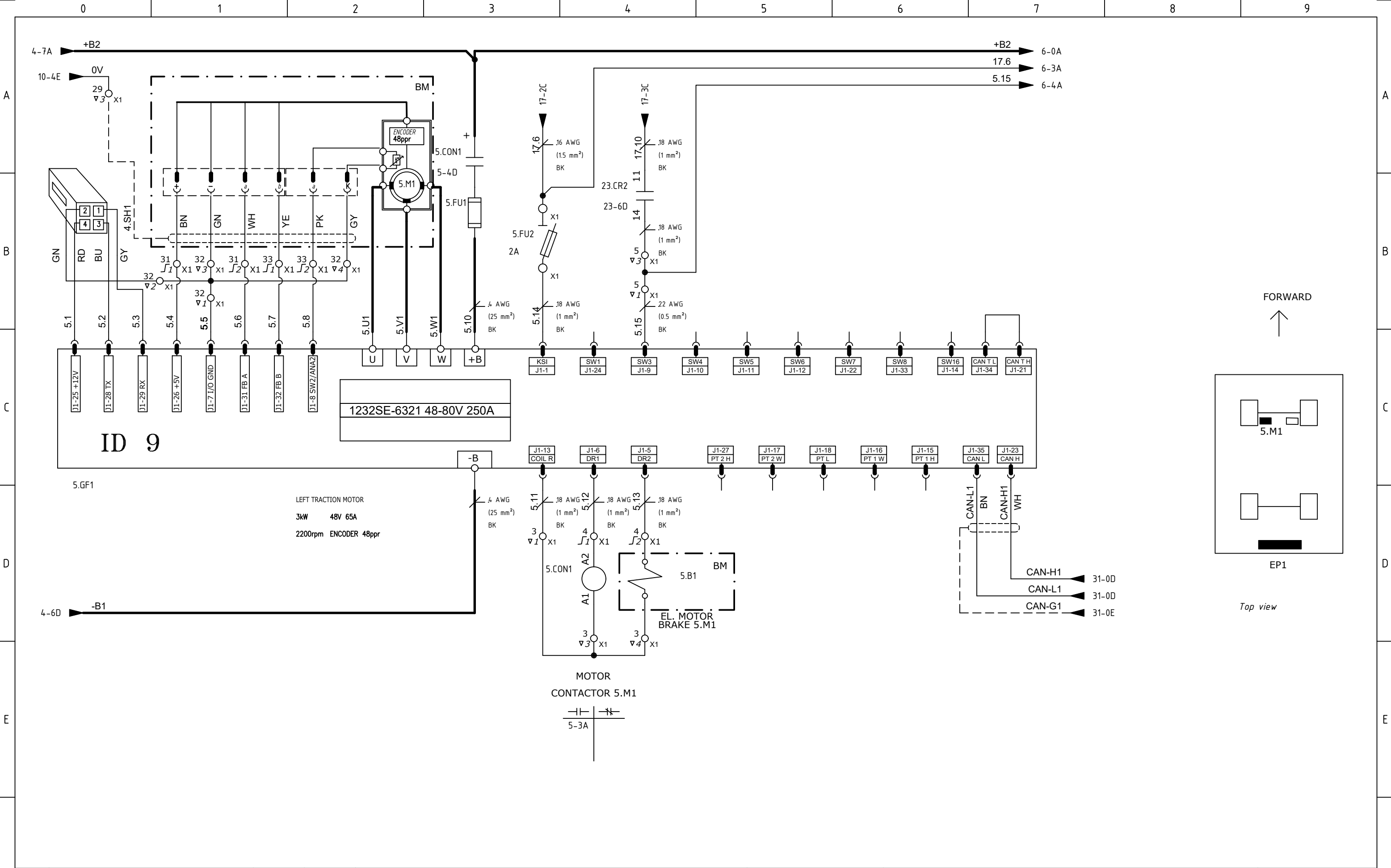
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							DOC.Nr. M2769_1			Taglia	Fogli Totali
							FILE M2769_REV2_EN	CONDUCTOR STAINING REGULATIONS		A3	49
							DISEGN. R.G.			Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA				APPR.			1A	1B

Fg/Sh	N.	Modifica/Modify	Data/Date	Firma/Signature
1	01	CHANGE SYMBOLS FROM IEC TO ANSI	03/07/26	R.G.
	02	AS_BUILT AND REPLACE FUSE	18/09/26	R.G.
5	02	REPLACEMENT OF TRACTION FUSE	18/09/26	R.G.
6	02	REPLACEMENT OF TRACTION FUSE	18/09/26	R.G.
16	01	SOME NUMERATIONS CHANGES	17/09/26	R.G.
20	01	SOME NUMERATIONS CHANGES	17/09/26	R.G.

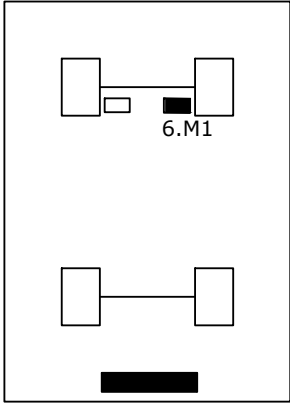
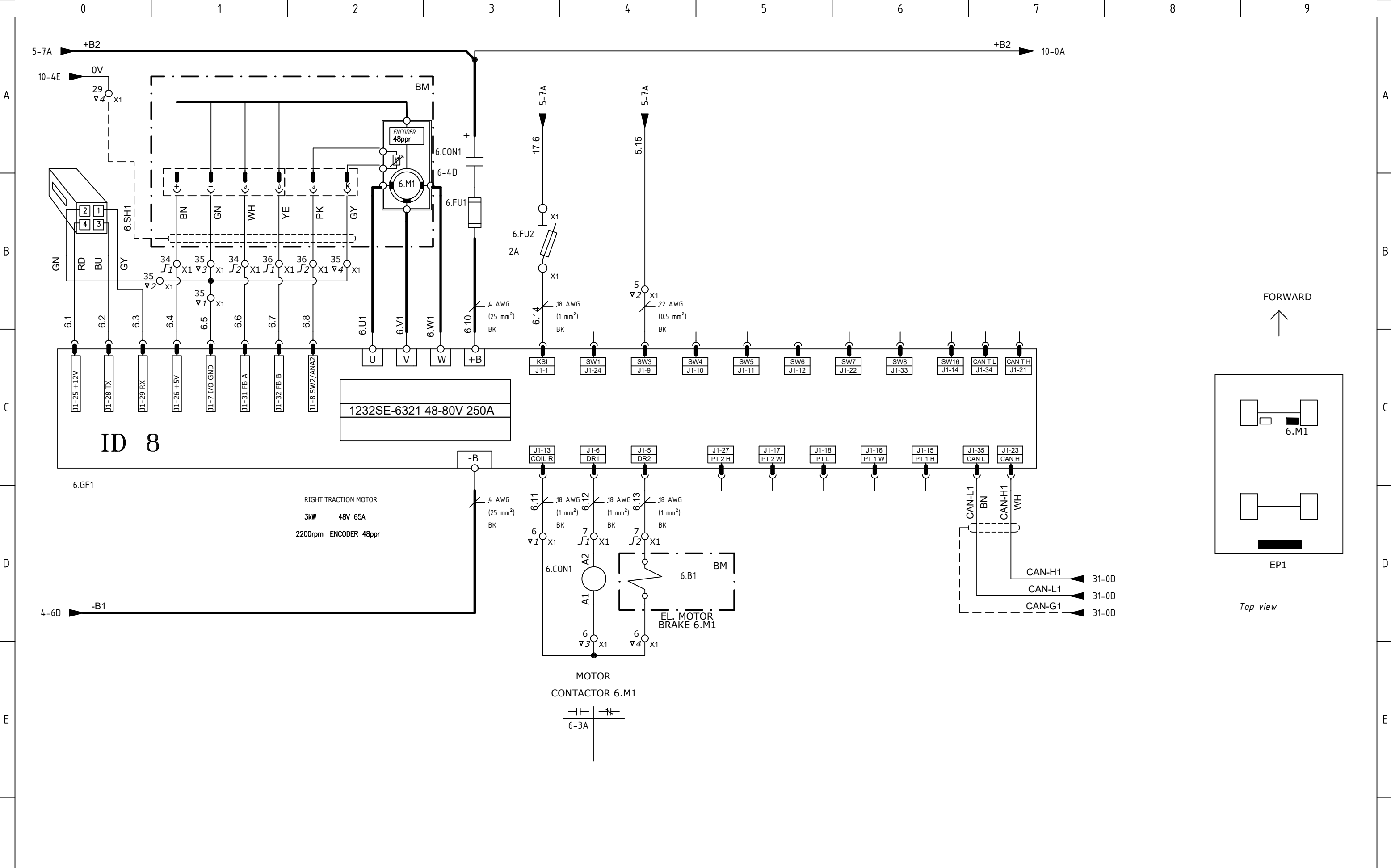
PANEL	DESCRIPTION
BM	MACHINE BORD
CG	<i>charger</i>
EP1	<i>Overview</i>
PB1	<i>Corded push-button panel</i>

				COMMESSA M2769	DATA 03/07/2026	DOCUMENTO SGAE ±90° R 20/2	SCALA	
					DOC.Nr. M2769__1		Taglia A3	Fogli Totali 49
				FORD	FILE M2769__REV2__EN	REVISIONS	Foglio	Foglio Seguento
					DISEGN. R.G.		1B	2
REV.	MODIFICA	DATA	FIRMA		APPR.			

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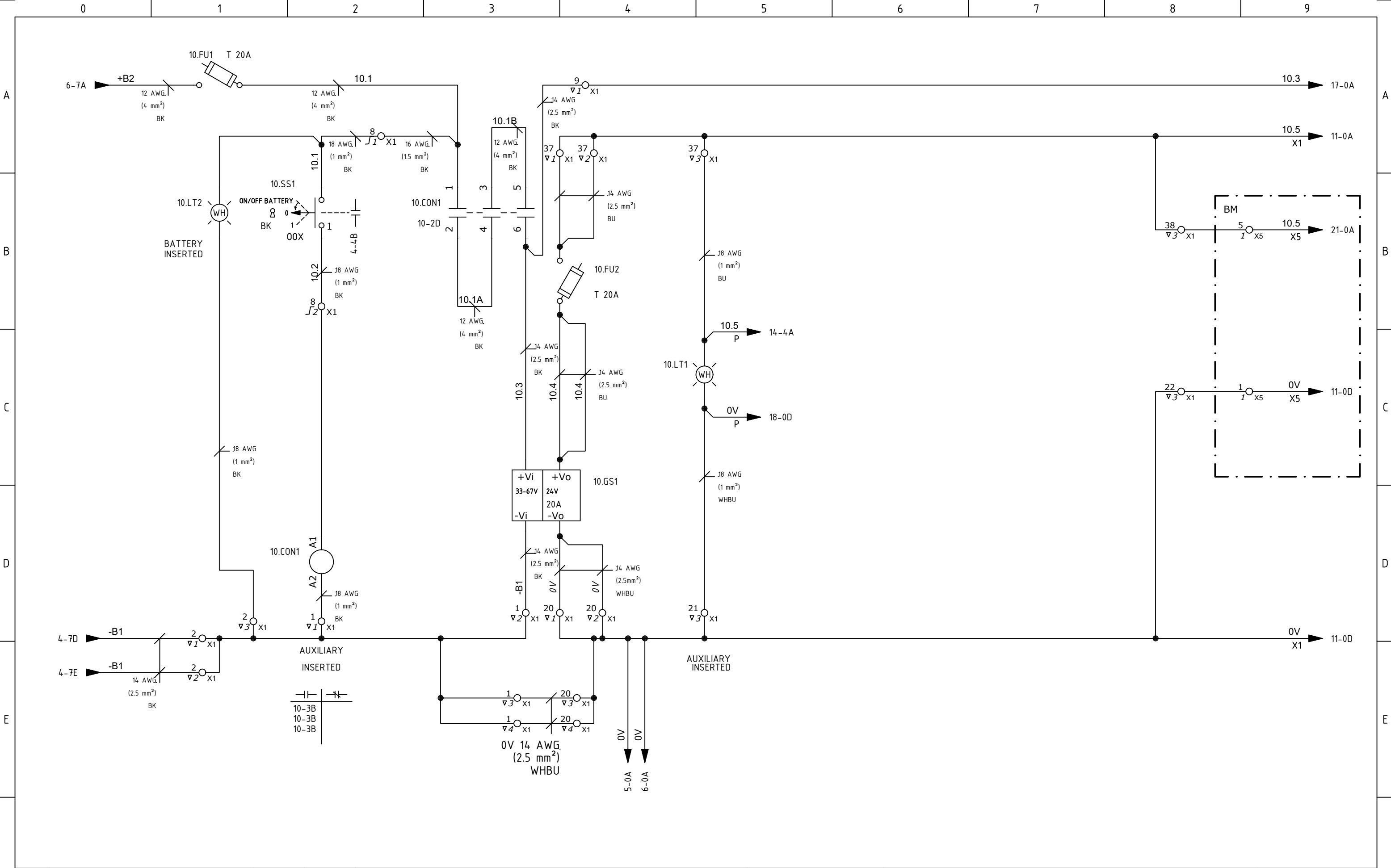


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							DOC.Nr.	M2769_1			Taglia	Fogli Totali	
							FILE	M2769_REV2_EN	CONTROLLER TRACTION MOTOR LEFT	A3	49		
	02	REPLACEMENT OF TRACTION FUSE	18/09/26	R.G.			DISEGN.	R.G.		Foglio	Foglio Seguento		
	REV.	MODIFICA	DATA	FIRMA			APPR.			5	6		

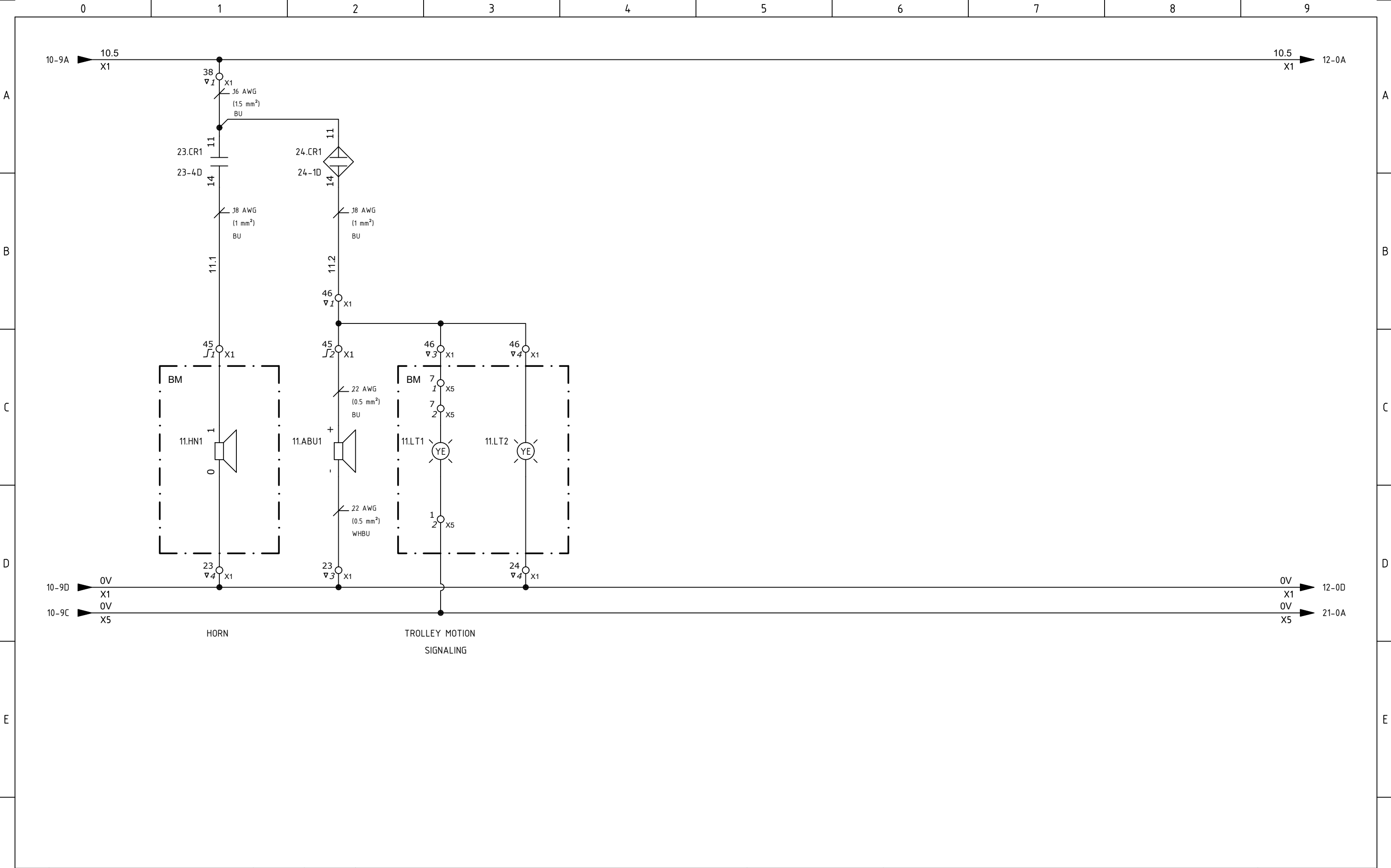


Top view

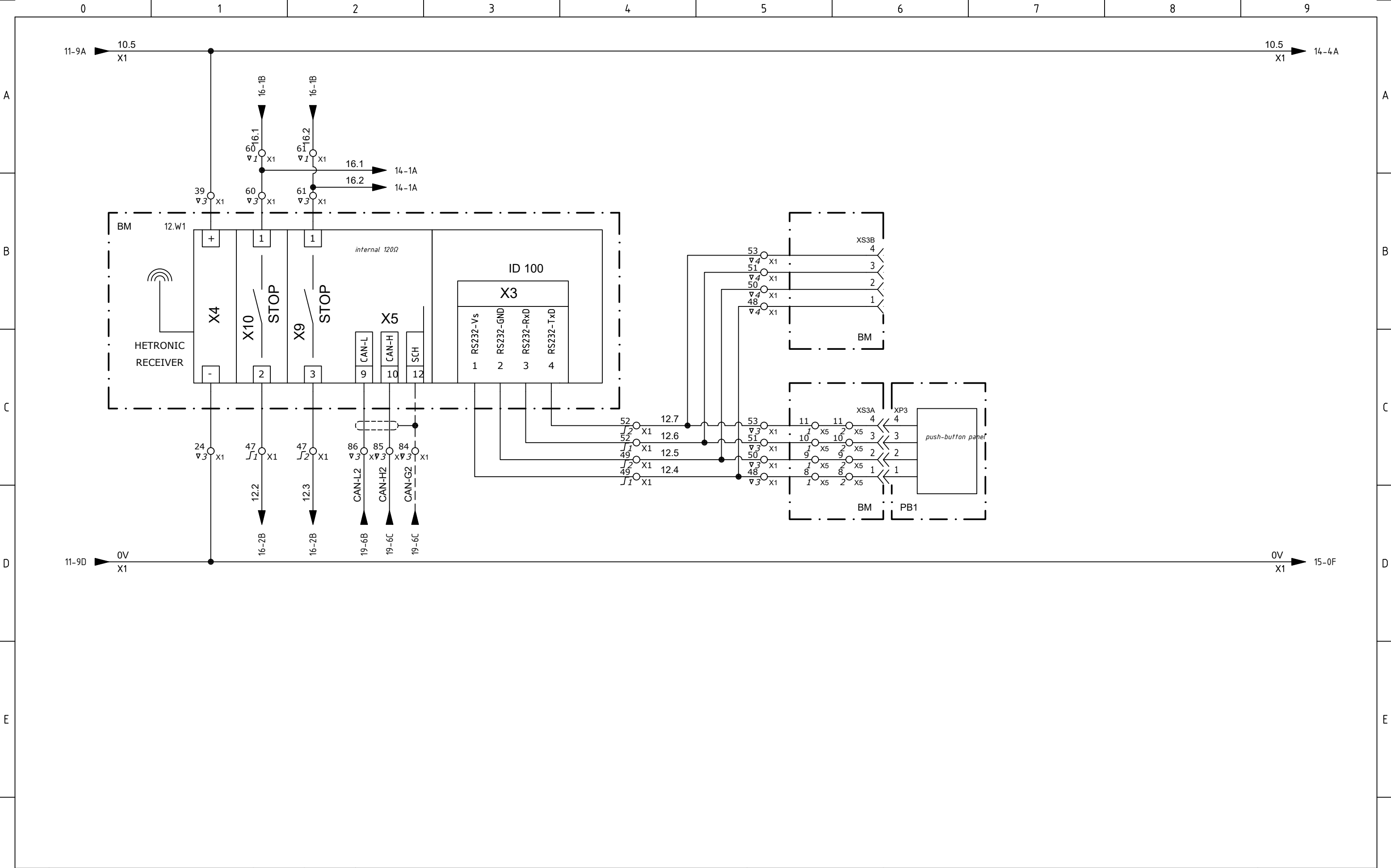
COMMESSA M2769				DATA 03/07/2026	DOCUMENTO SGAE ±90° R 20/2	SCALA	
				DOC.Nr. M2769_1		Taglia A3	Fogli Totali 49
FORD				FILE M2769_REV2_EN		Foglio 6	Foglio Seguento 10
02	REPLACEMENT OF TRACTION FUSE	18/09/26	R.G.	DISEGN. R.G.			
REV.	MODIFICA	DATA	FIRMA	APPR.			

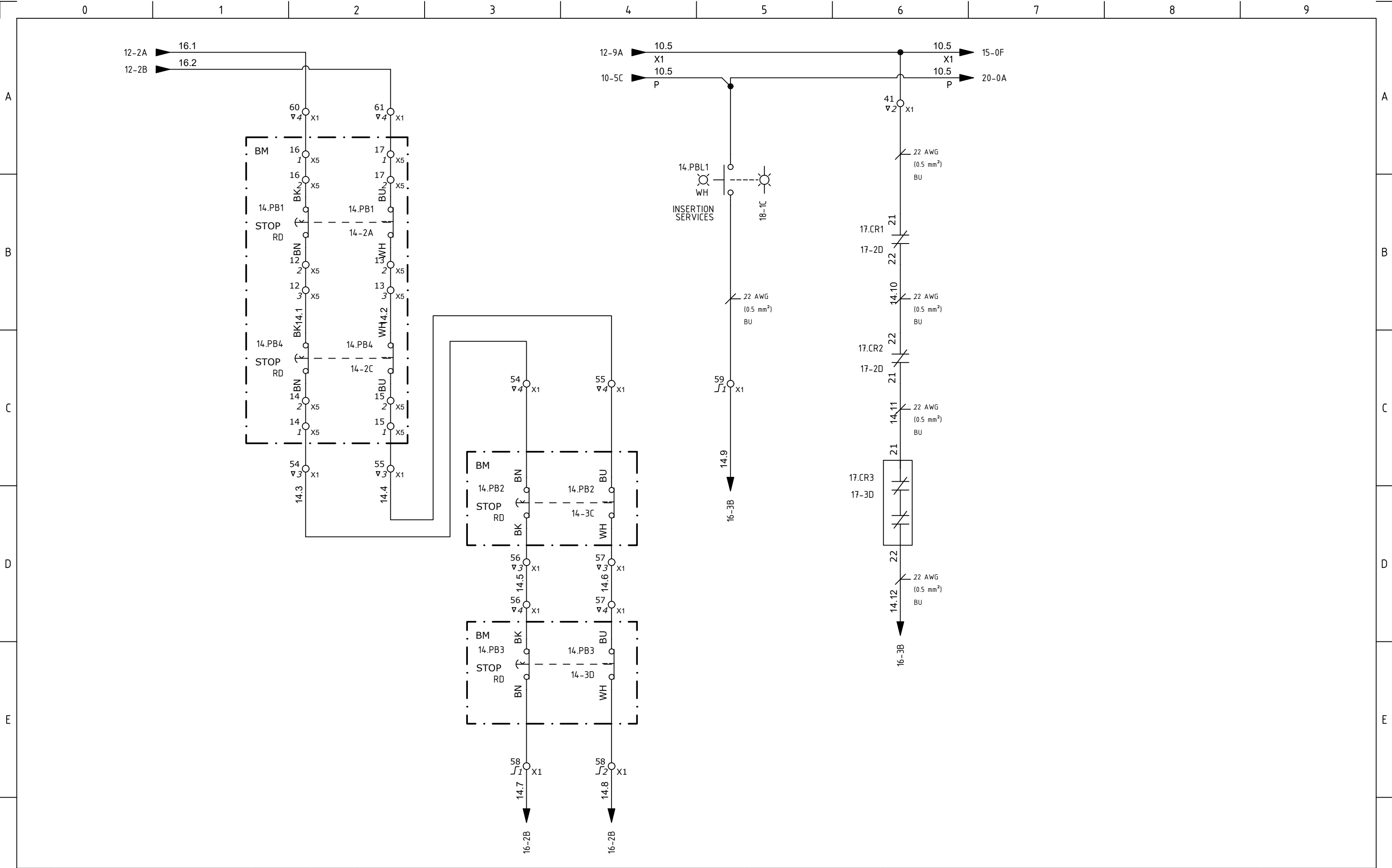


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						DOC.Nr.	M2769_1				Taglia	Fogli Totali	
					FORD		FILE	M2769_REV2_EN	AUXILIARY CIRCUIT POWER SUPPLY	A3	49		
							DISEGN.	R.G.		Foglio	Foglio Seguento		
	REV.	MODIFICA	DATA	FIRMA			APPR.			10	11		

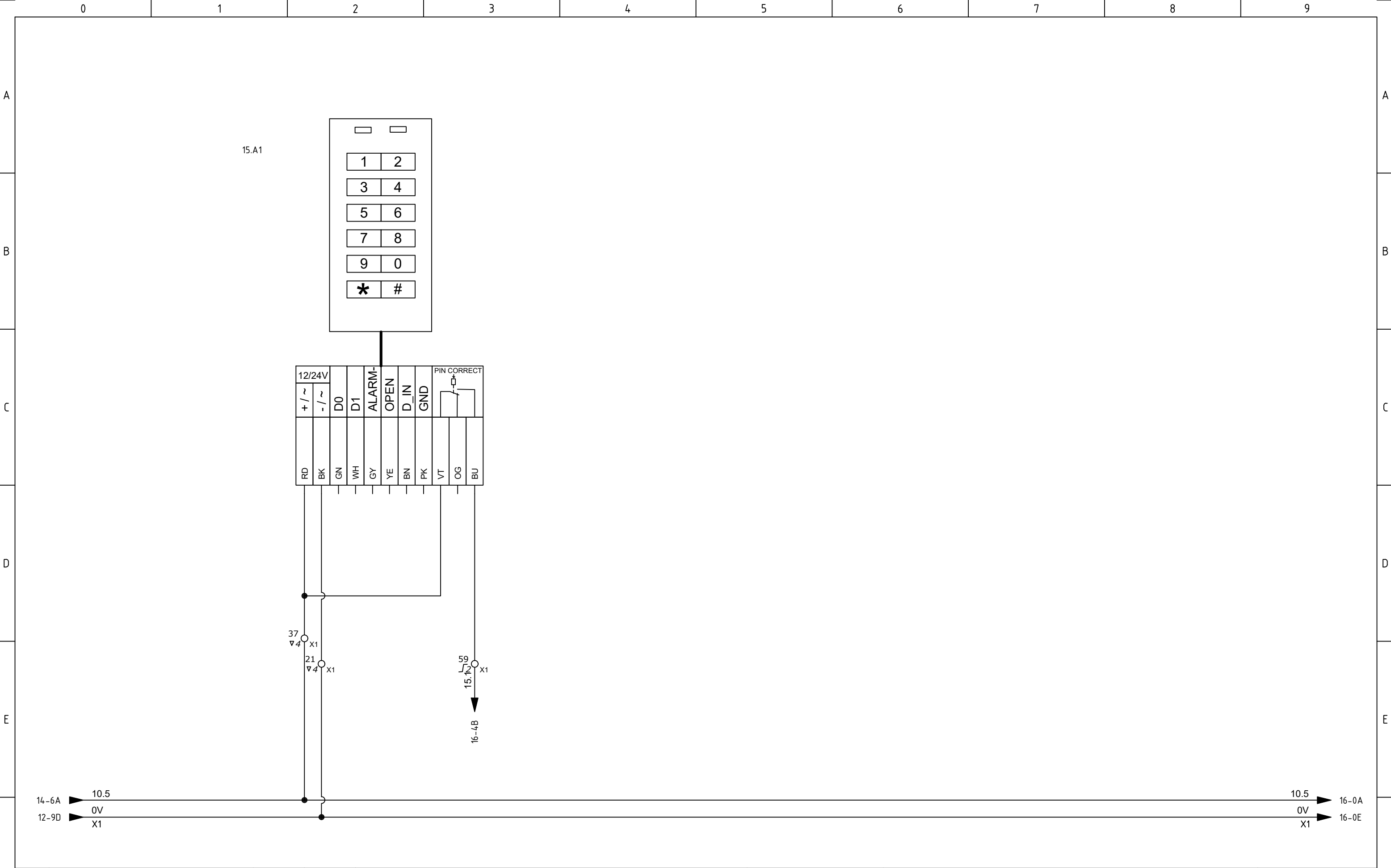


COMMESSA				DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2		SCALA	
M2769				DOC.Nr.	M2769_1				Taglia	Fogli Totali
FORD				FILE	M2769_REV2_EN				A3	49
				DISEGN.	R.G.				Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA	APPR.				11	12	

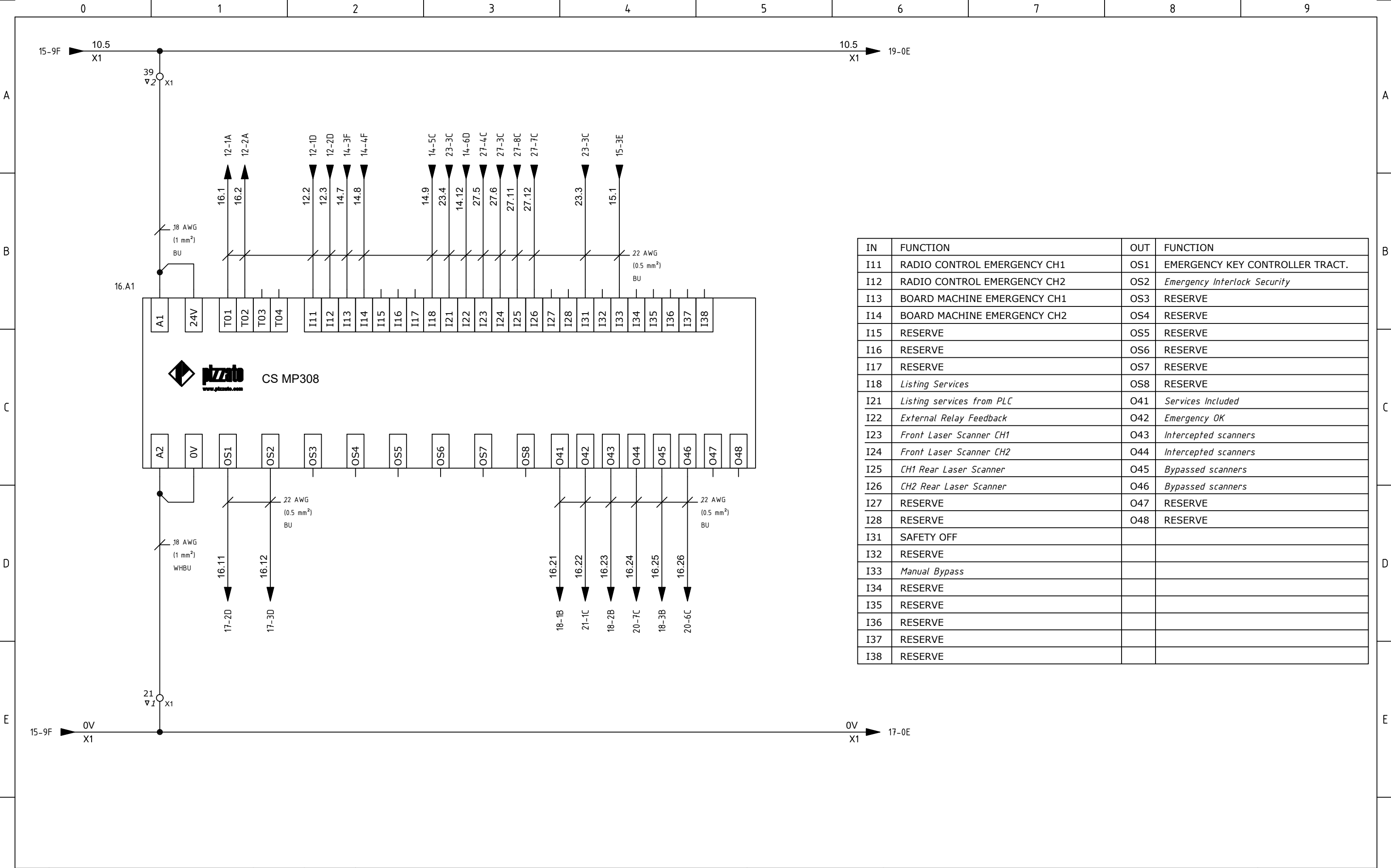




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								DOC.Nr.	M2769_1			Taglia	A3	Fogli Totali	
								FILE	M2769_REV2_EN	BM EMERGENCIES AND RESET		Foglio		Foglio Segue	
	REV.	MODIFICA	DATA	FIRMA				DISEGN.	R.G.				14	15	

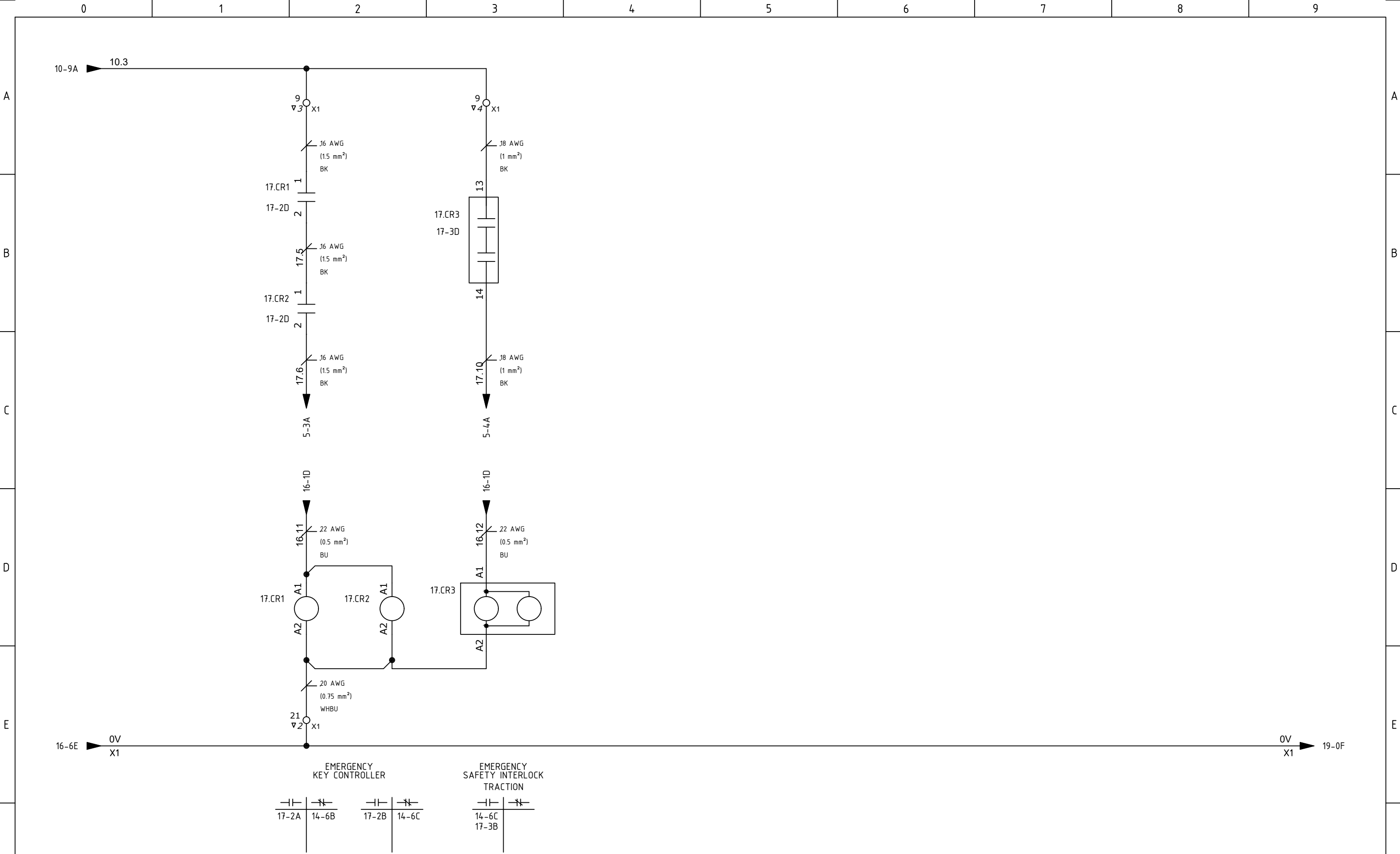


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								FILE	M2769_REV2_EN									A3	49	
								DISEGN.	R.G.									Foglio	Foglio Seguento	
	REV.	MODIFICA		DATA	FIRMA				APPR.										15	16
	0	1	2	3	4	5	6	7	8	9										

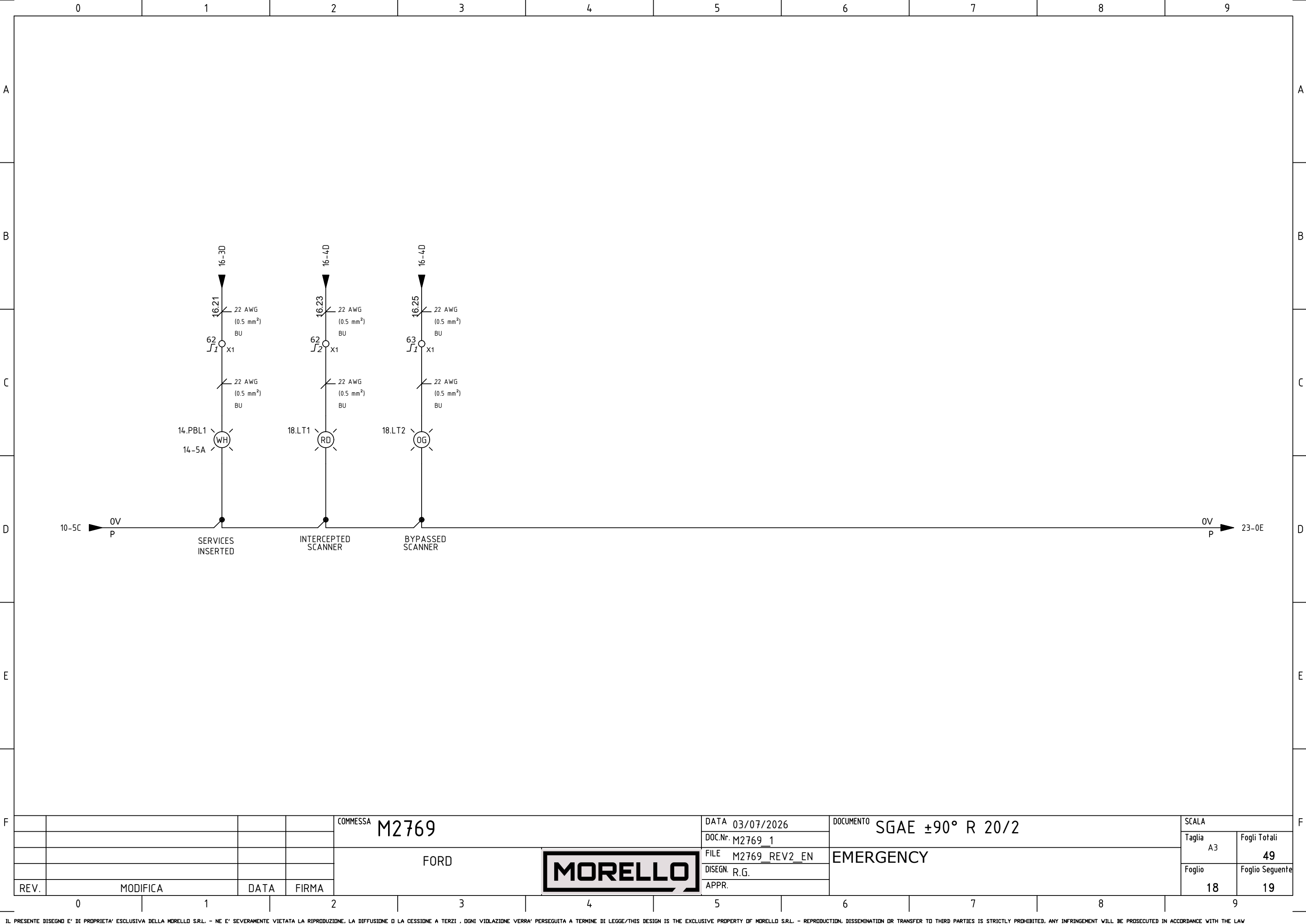


IN	FUNCTION	OUT	FUNCTION
I11	RADIO CONTROL EMERGENCY CH1	OS1	EMERGENCY KEY CONTROLLER TRACT.
I12	RADIO CONTROL EMERGENCY CH2	OS2	<i>Emergency Interlock Security</i>
I13	BOARD MACHINE EMERGENCY CH1	OS3	RESERVE
I14	BOARD MACHINE EMERGENCY CH2	OS4	RESERVE
I15	RESERVE	OS5	RESERVE
I16	RESERVE	OS6	RESERVE
I17	RESERVE	OS7	RESERVE
I18	<i>Listing Services</i>	OS8	RESERVE
I21	<i>Listing services from PLC</i>	O41	<i>Services Included</i>
I22	<i>External Relay Feedback</i>	O42	<i>Emergency OK</i>
I23	<i>Front Laser Scanner CH1</i>	O43	<i>Intercepted scanners</i>
I24	<i>Front Laser Scanner CH2</i>	O44	<i>Intercepted scanners</i>
I25	<i>CH1 Rear Laser Scanner</i>	O45	<i>Bypassed scanners</i>
I26	<i>CH2 Rear Laser Scanner</i>	O46	<i>Bypassed scanners</i>
I27	RESERVE	O47	RESERVE
I28	RESERVE	O48	RESERVE
I31	SAFETY OFF		
I32	RESERVE		
I33	<i>Manual Bypass</i>		
I34	RESERVE		
I35	RESERVE		
I36	RESERVE		
I37	RESERVE		
I38	RESERVE		

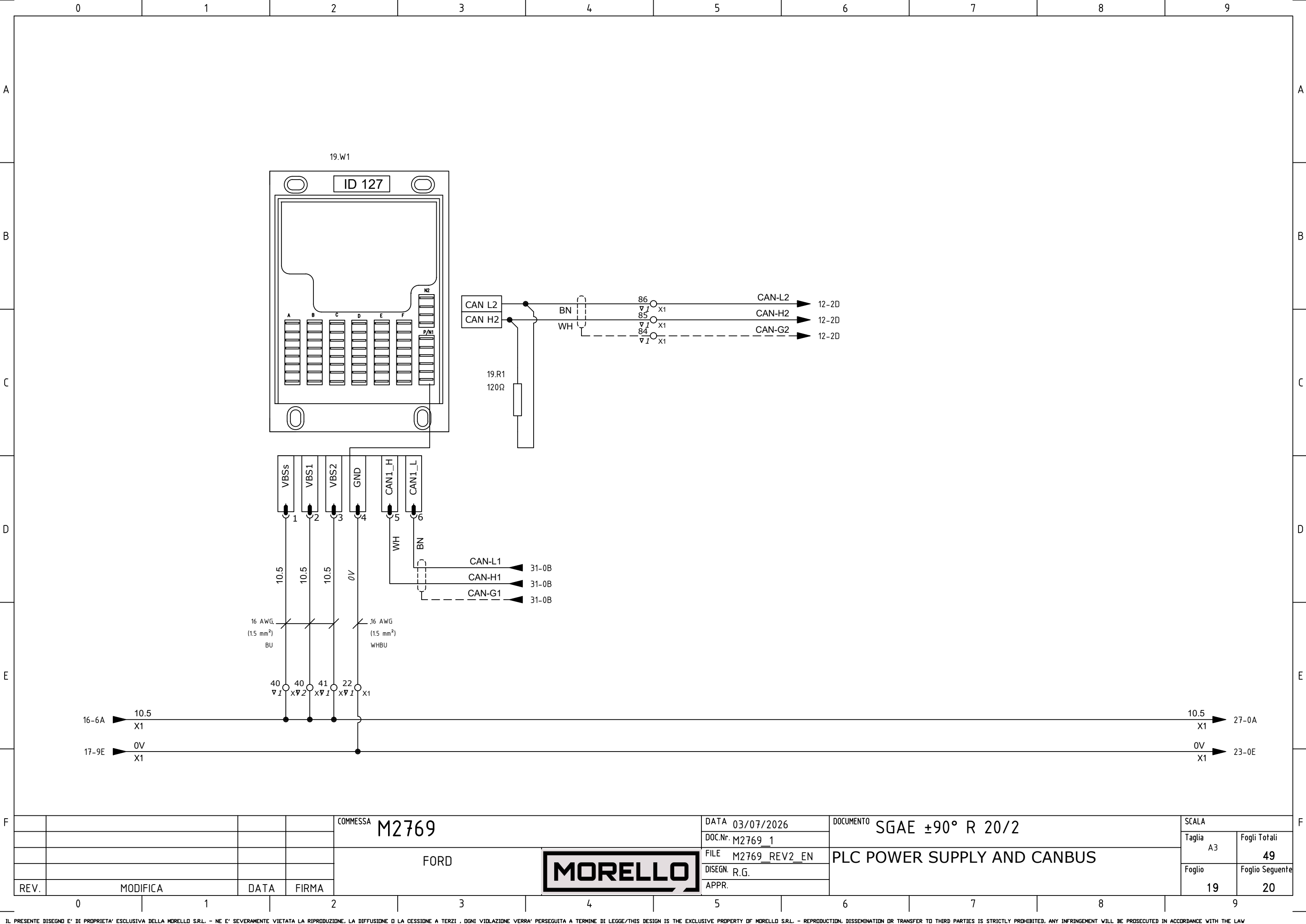
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						FILE	M2769_REV2_EN			A3	49
01	SOME NUMERATIONS CHANGES	17/09/26	R.G.		FORD	DISEGN.	R.G.			Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA			APPR.				16	17



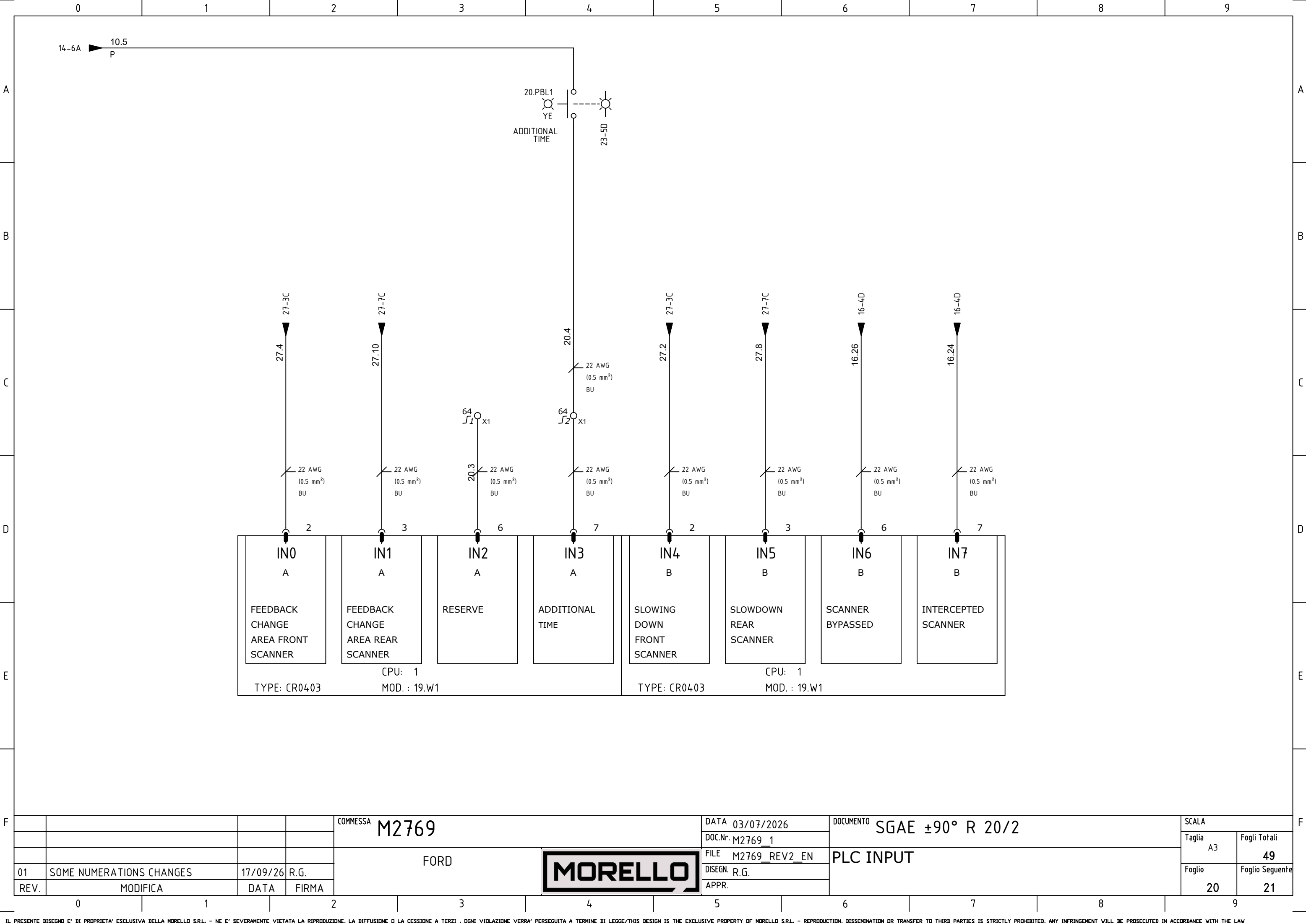
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							FILE	M2769_REV2_EN	EMERGENCY	A3	49		
							DISEGN.	R.G.		Foglio	Foglio Seguento		
	REV.	MODIFICA	DATA	FIRMA			APPR.			17	18		
				FORD									



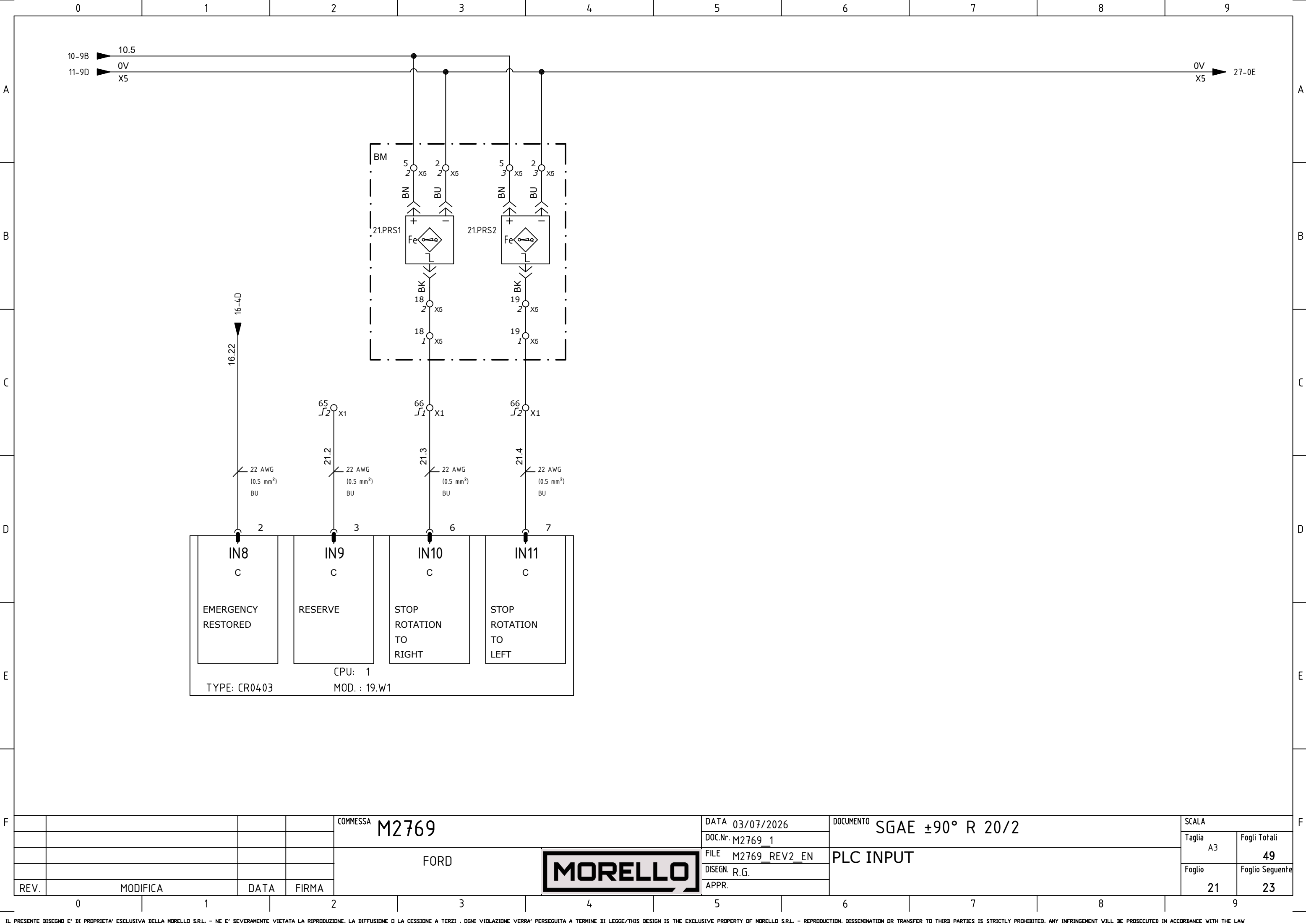
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							FILE	M2769_REV2_EN	EMERGENCY	A3	49		
							DISEGN.	R.G.		Foglio	Foglio Seguento		
	REV.	MODIFICA	DATA	FIRMA			APPR.			18	19		



F				COMMESSA	M2769		DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA		F
							DOC.Nr.	M2769_1			Taglia	Fogli Totali	
											A3	49	
											Foglio	Foglio Seguento	
											19	20	
	REV.	MODIFICA	DATA	FIRMA		FORD		MORELLO		PLC POWER SUPPLY AND CANBUS			



F				COMMESSA	M2769		DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA		F	
							DOC.Nr.	M2769_1			Taglia	Fogli Totali		
							FILE	M2769_REV2_EN			A3	49		
	01	SOME NUMERATIONS CHANGES	17/09/26			R.G.	FORD				PLC INPUT	Foglio		Foglio Seguento
	REV.	MODIFICA	DATA			FIRMA						20		21



F				COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2		SCALA		F
						DOC.Nr.	M2769_1				Taglia	Fogli Totali	
							FILE	M2769_REV2_EN	PLC INPUT	A3	49		
							DISEGN.	R.G.		Foglio	Foglio Seguento		
	REV.	MODIFICA	DATA	FIRMA			APPR.			21	23		
				FORD									

A

B

C

D

E

F

A

B

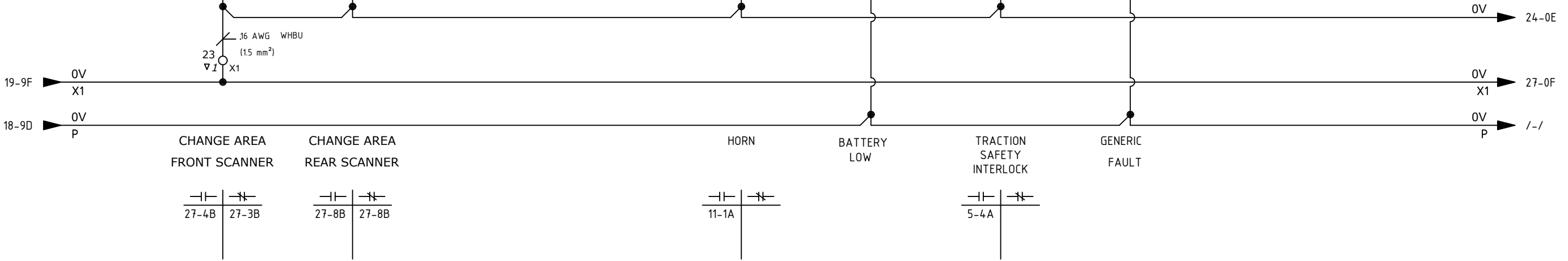
C

D

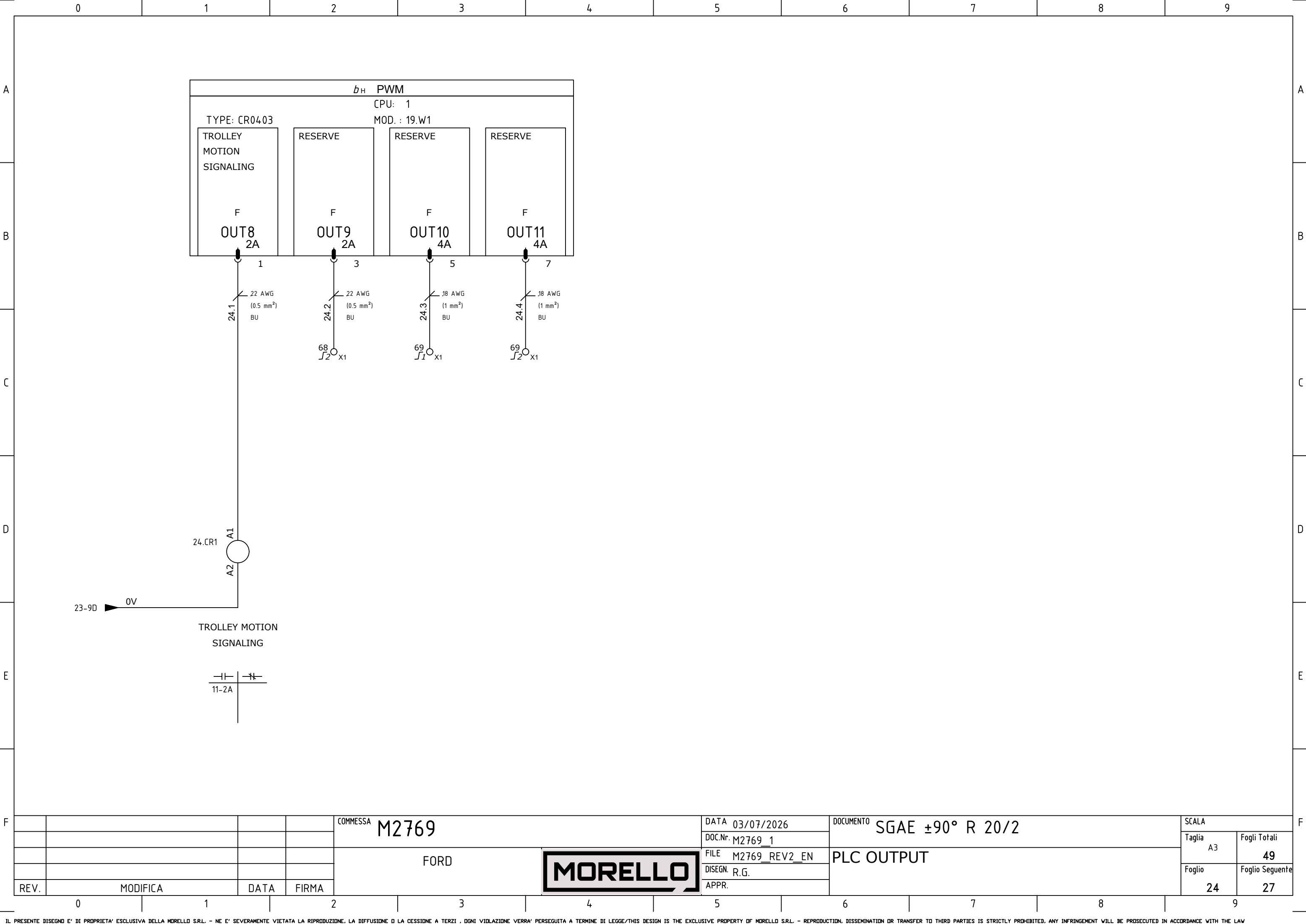
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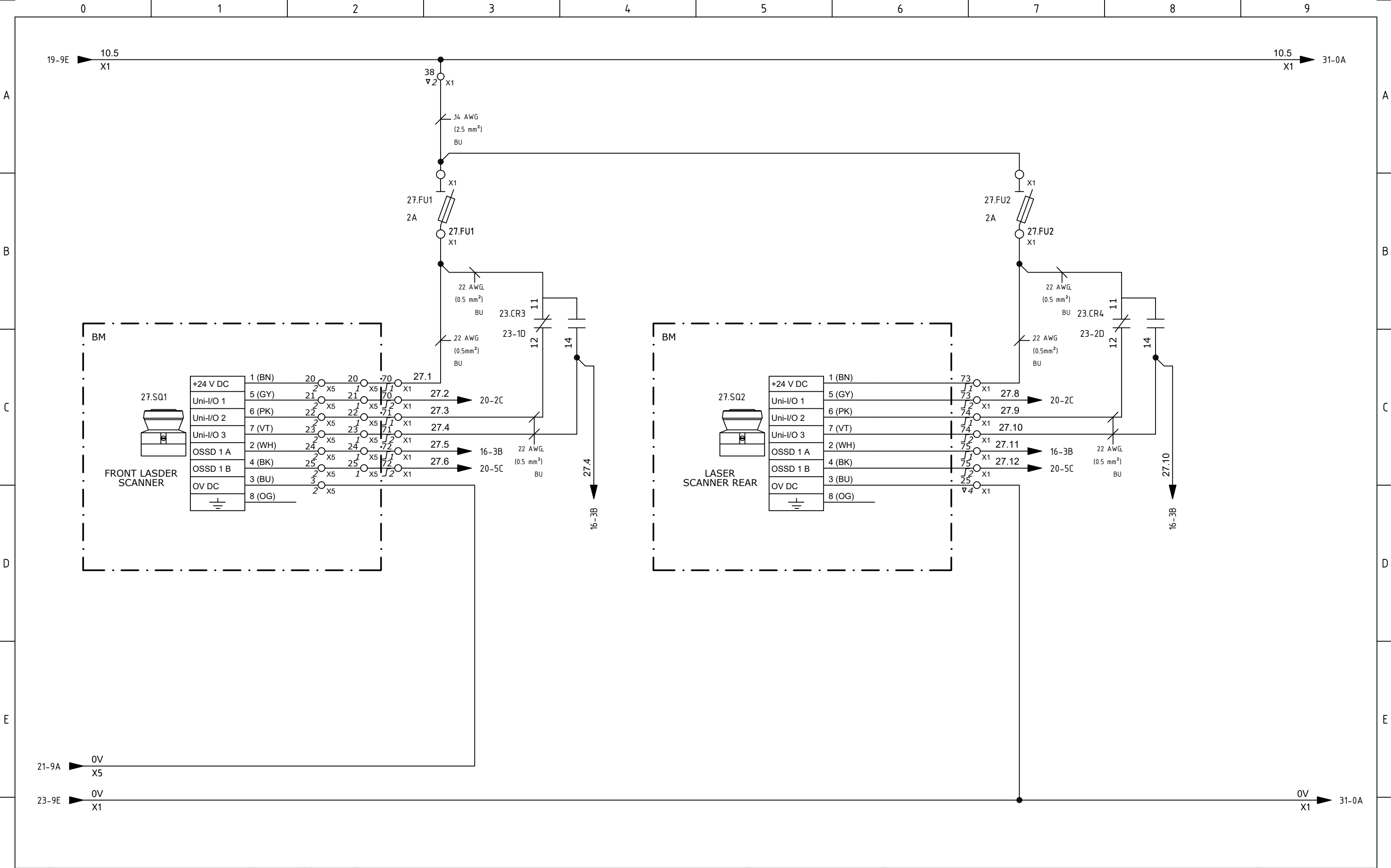
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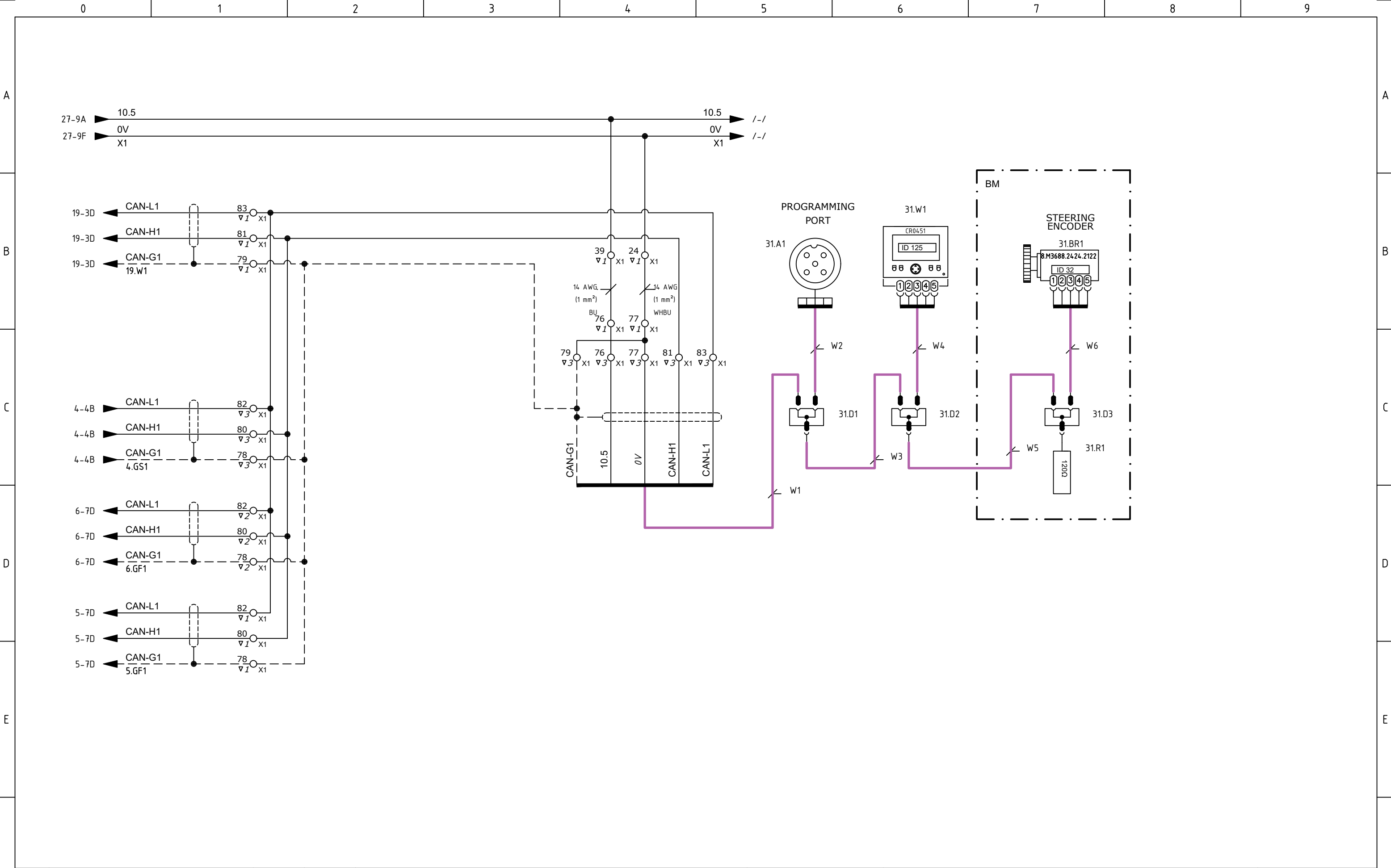
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							DOC.Nr.	M2769_1		Taglia	Fogli Totali
							FILE	M2769_REV2_EN		A3	49
							DISEGN.	R.G.		Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA		FORD		APPR.			23	24



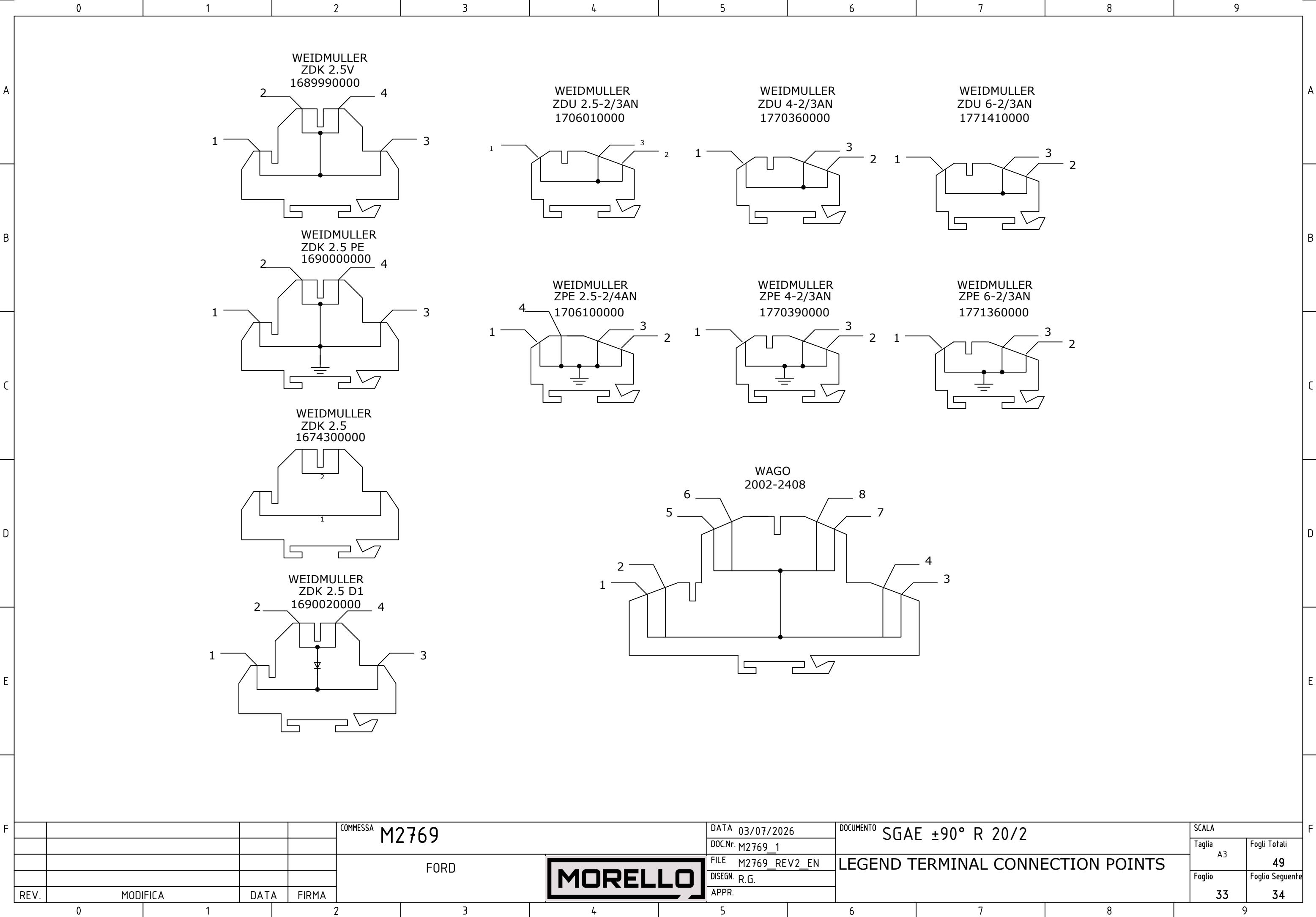
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							DOC.Nr.	M2769_1				Taglia	Fogli Totali
							FILE	M2769_REV2_EN	PLC OUTPUT			A3	49
							DISEGN.	R.G.			Foglio		Foglio Seguento
							APPR.				24		27
	MODIFICA		DATA	FIRMA									



				COMMESSA				DATA	03/07/2026	DOCUMENTO				SCALA	
				M2769				DOC.Nr.	M2769_1	SGAE ±90° R 20/2				Taglia	Fogli Totali
				FORD				FILE	M2769_REV2_EN	LASER SCANNERS				A3	49
								DISEGN.	R.G.					Foglio	Foglio Segue
REV.	MODIFICA			DATA	FIRMA					APPR.				27	31

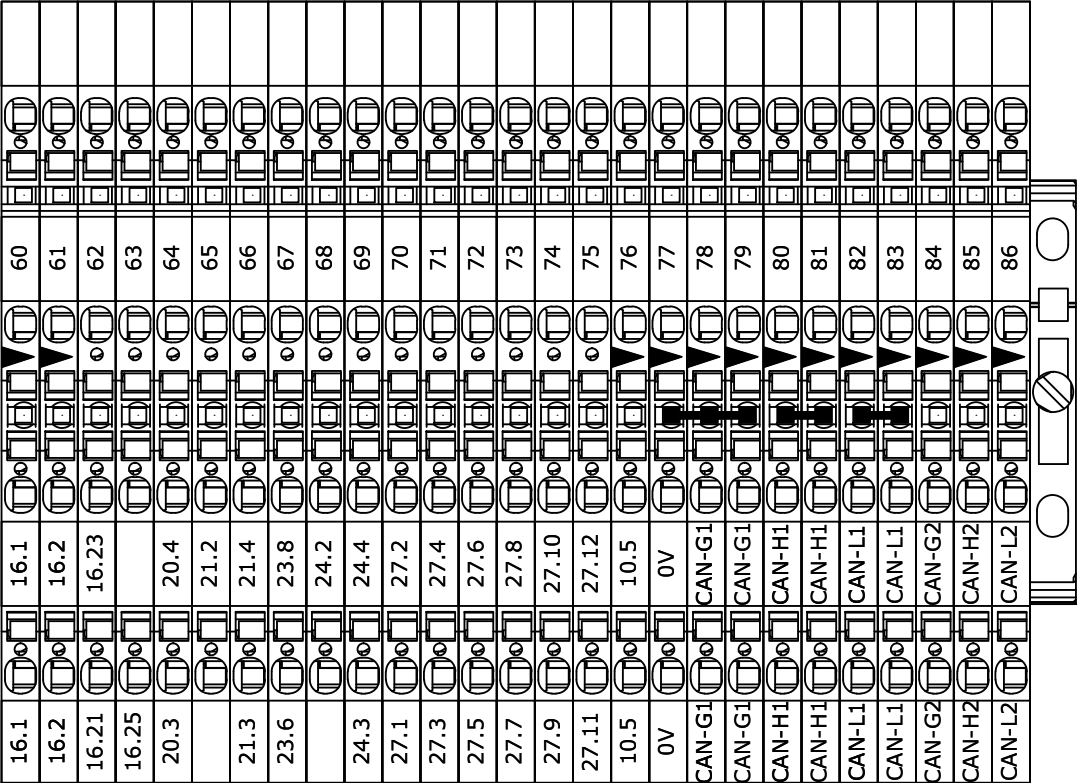
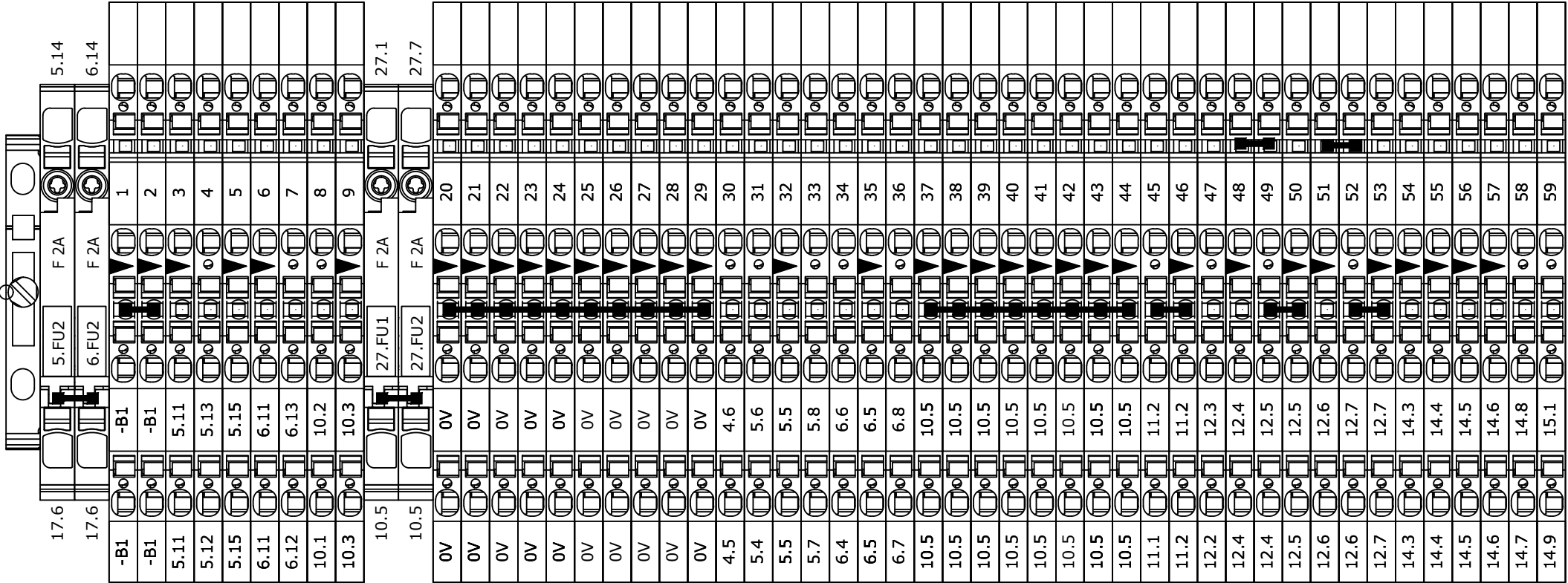


COMMESSA				DATA	03/07/2026	DOCUMENTO		SCALA	
M2769				DOC.Nr.	M2769_1	SGAE ±90° R 20/2		Taglia	Fogli Totali
FORD				FILE	M2769_REV2_EN	CAN BUS		A3	49
				DISEGN.	R.G.			Foglio	Foglio Seguento
				APPR.				31	33



EP1 X1

Overview



F				COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA		F
						DOC.Nr.	M2769_1			Taglia	Fogli Totali	
										A3	49	
					FORD		FILE	M2769_REV2_EN	TERMINAL BLOCK ELECTRICAL PANEL EP1			
							DISEGN.	R.G.		Foglio	Foglio Seguento	
	REV.	MODIFICA	DATA	FIRMA			APPR.			34	35	

A

B

C

D

E

F

BM

XS3A

socket for front hand control

TYPE	constructor	Wire ID	NumI	Pin
CSHF 16	Ilme			
			12.4	1
			12.5	2
			12.6	3
			12.7	4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				PE
CHP 16 LS2	Ilme			

BM

XS3B

socket for rear push-button panel

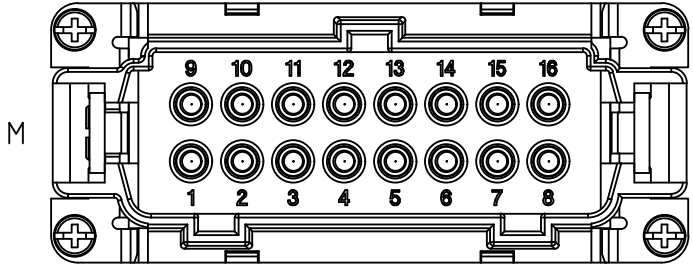
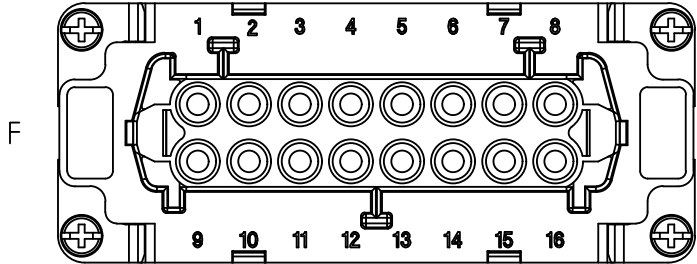
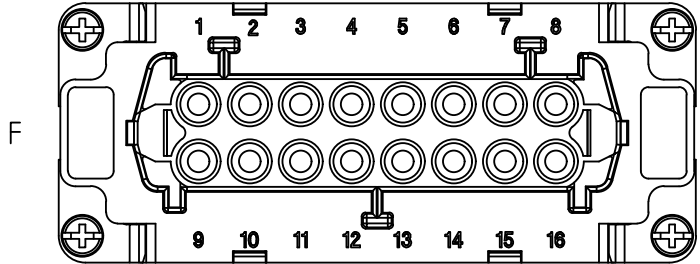
TYPE	constructor	Wire ID	NumI	Pin
CSHF 16	Ilme			
			12.4	1
			12.5	2
			12.6	3
			12.7	4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				PE
CHP 16 LS2	Ilme			

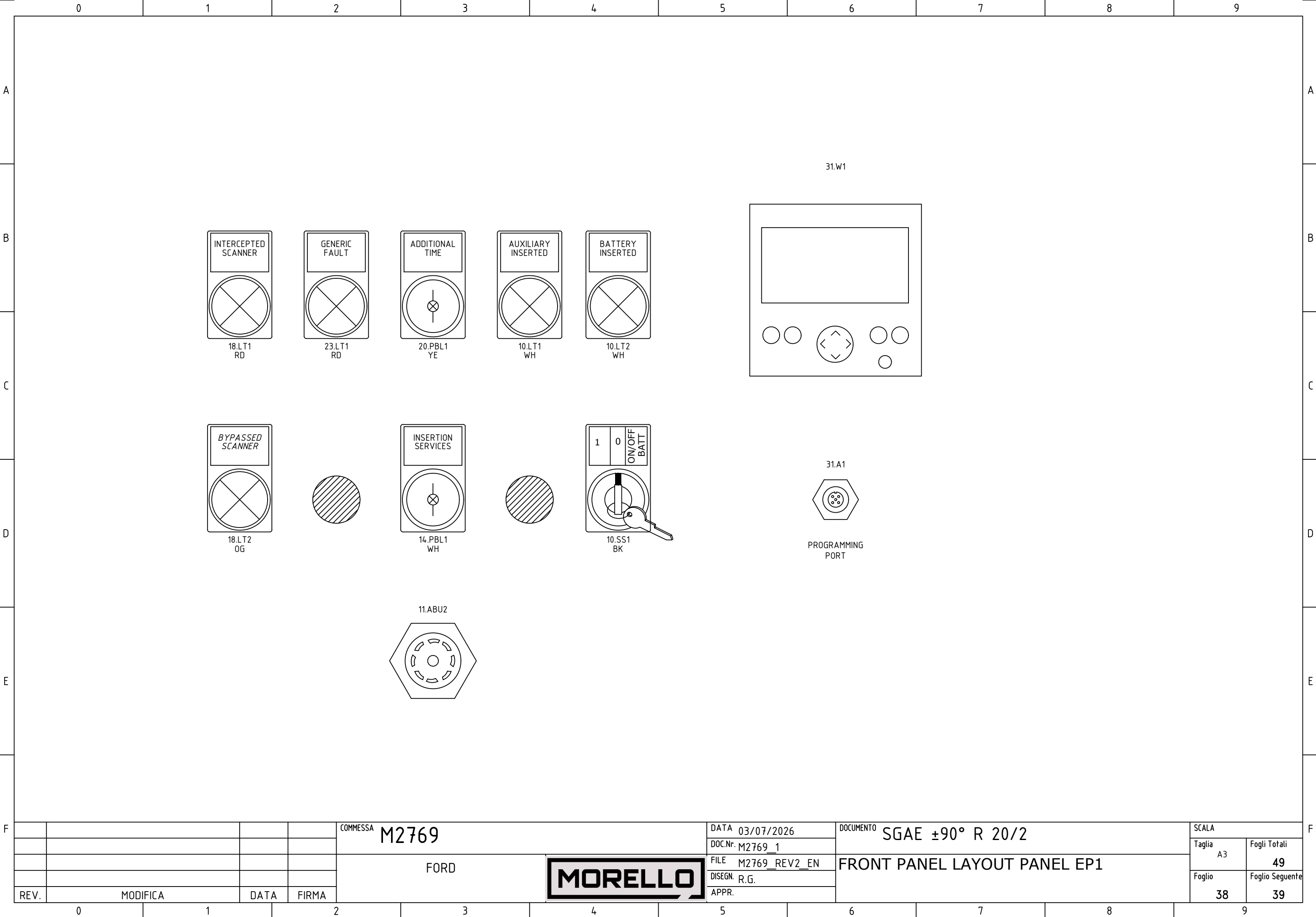
PB1

XP3

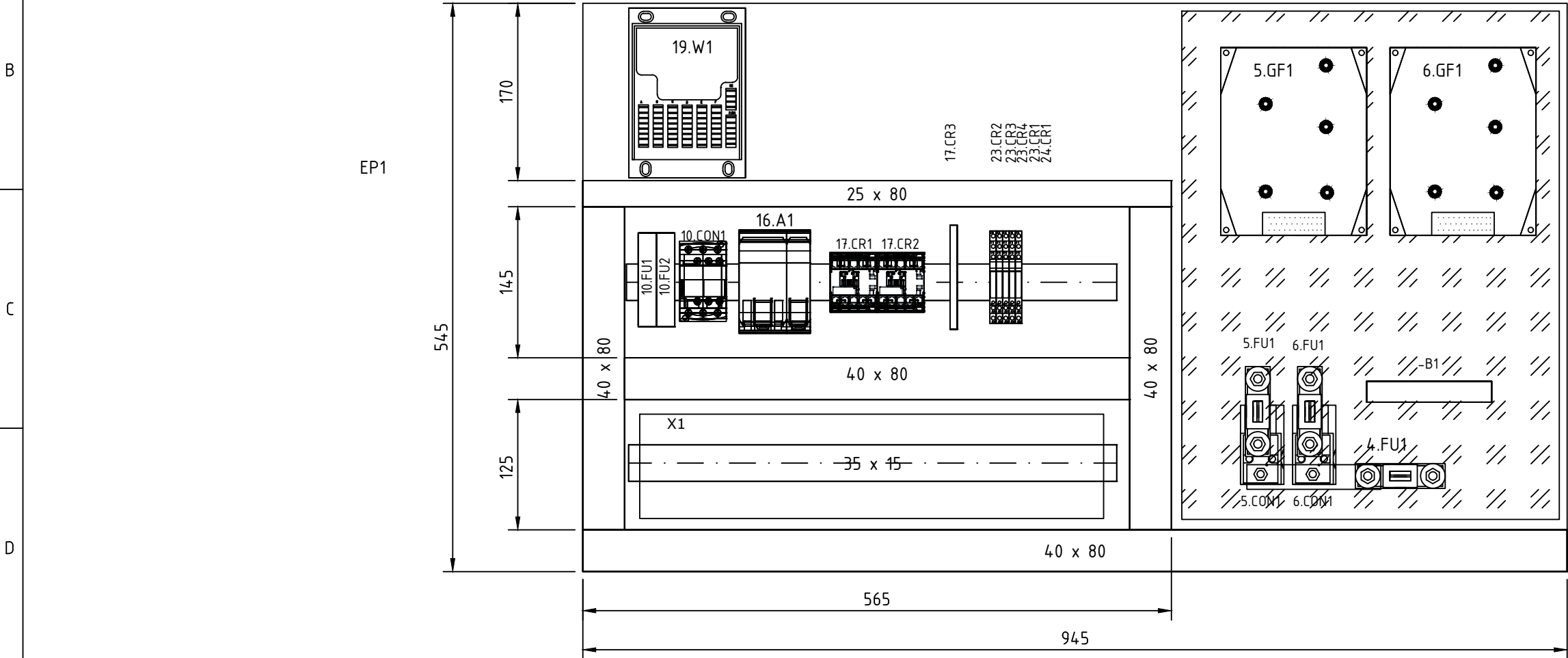
push-button plug with cable

TYPE	constructor	Wire ID	NumI	Pin
CSHM 16	Ilme			
			12.4	1
			12.5	2
			12.6	3
			12.7	4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				PE
CHV 16 L	Ilme			

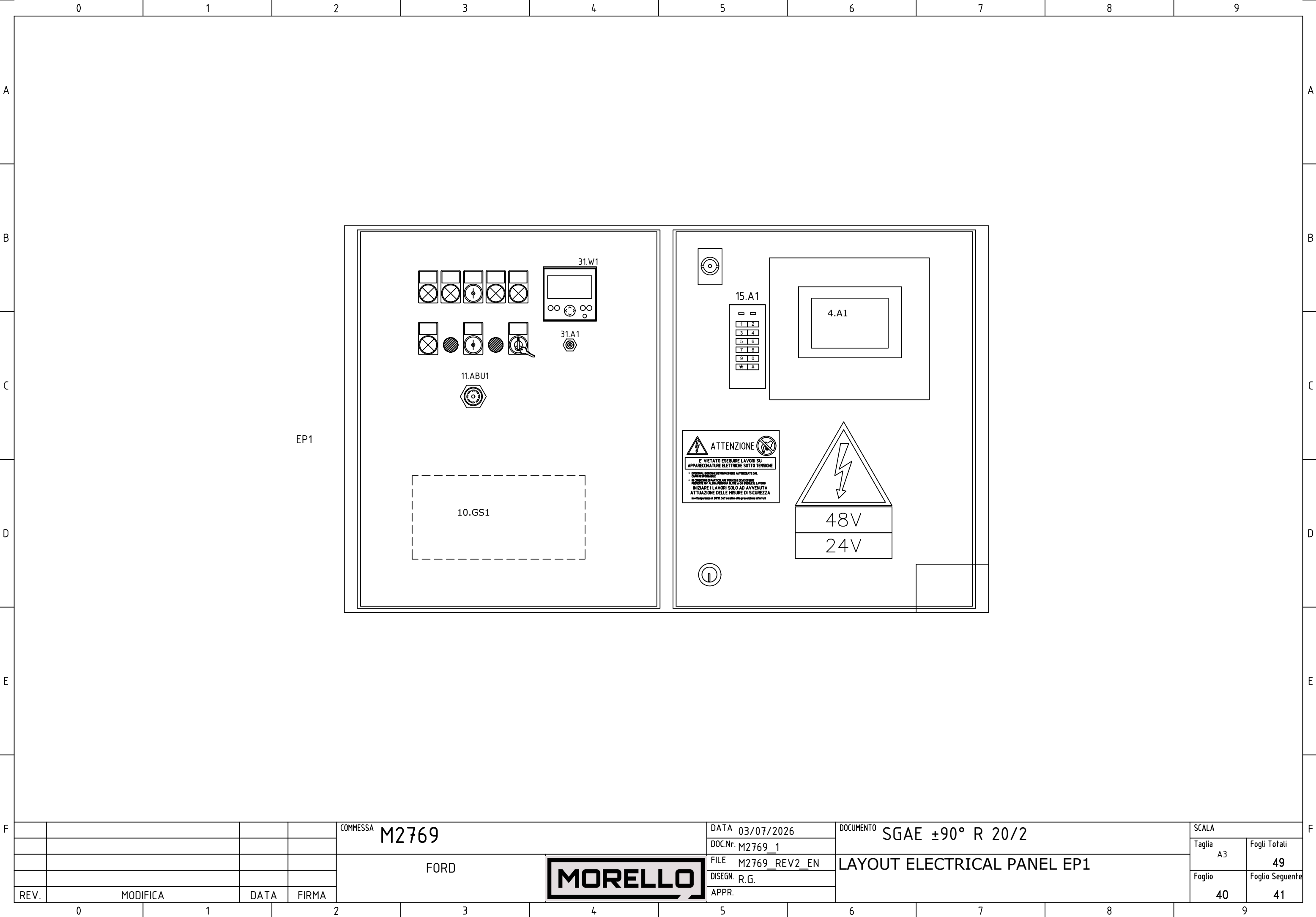




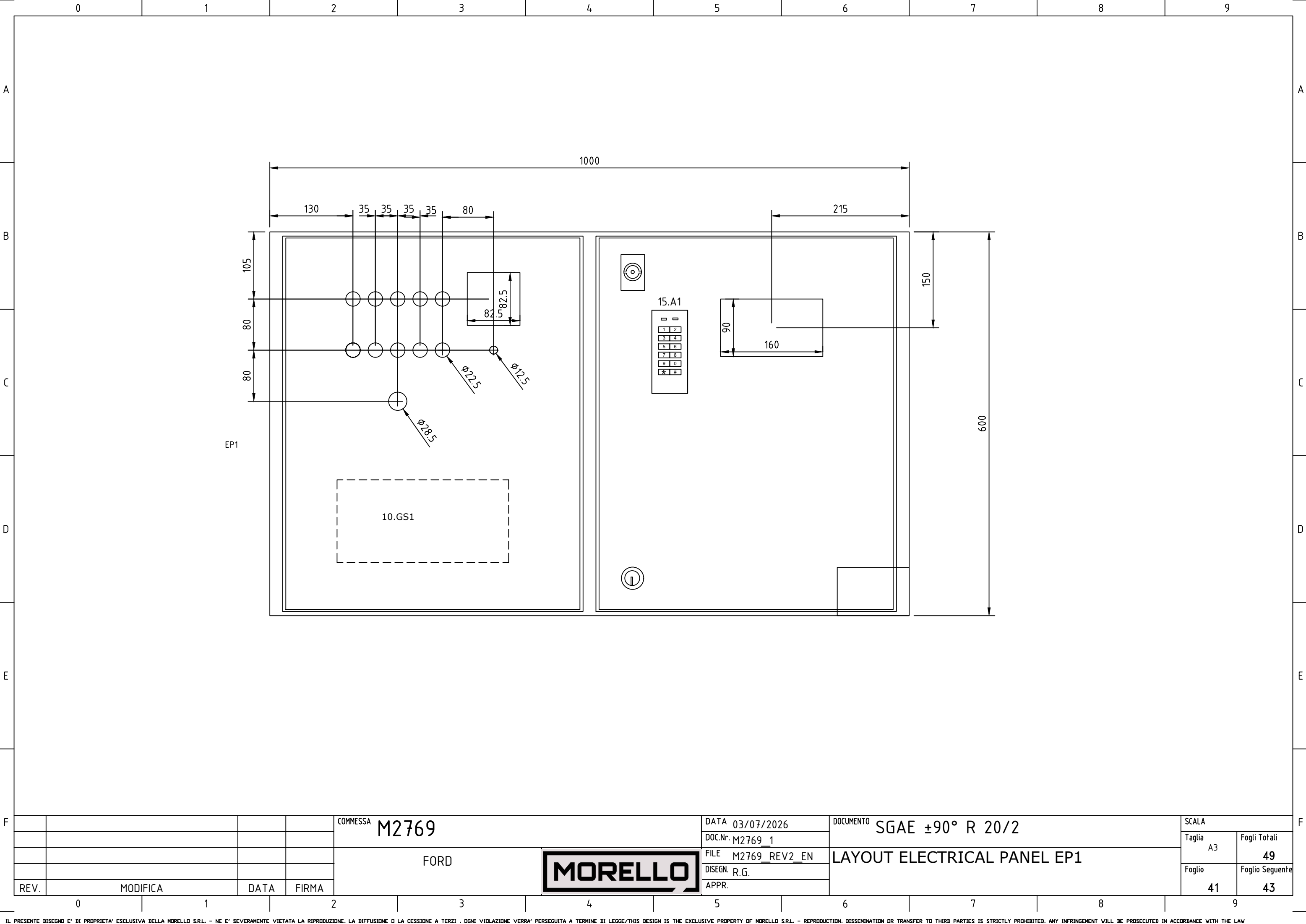
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						FILE	M2769_REV2_EN	FRONT PANEL LAYOUT PANEL EP1	A3	49			
						DISEGN.	R.G.		Foglio	Foglio Seguento			
	REV.	MODIFICA	DATA	FIRMA		APPR.			38	39			
				FORD									



				COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA	
						DOC.Nr.	M2769_1			Taglia	Fogli Totali
						FILE	M2769_REV2_EN			A3	49
						DISEGN.	R.G.			Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA		FORD	APPR.				39	40



F					COMMESA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA		F
											Taglia	Fogli Totali	
											A3	49	
											Foglio	Foglio Seguento	
	REV.	MODIFICA	DATA	FIRMA							40	41	



F					COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA		F
							DOC.Nr.	M2769_1			Taglia	Fogli Totali	
					FORD		FILE	M2769_REV2_EN	LAYOUT ELECTRICAL PANEL EP1	A3	49		
					DISEGN.		R.G.	Foglio		Foglio Seguento			
	REV.	MODIFICA	DATA	FIRMA	APPR.			41		43			

0		1		2		3		4		5		6		7		8		9	
A	G	Nome/Item	Tipo/Type	Descrizione/Description				Costruttore/Marke	Quadro/Board	Q.ta/Q.ty	Codice Interno								
		4.GS1	48-L1-60-7-6	48V 148Ah LITHIUM BATTERY				ENERSYS	BM	1									
		5.M1	AC194	MOTOR 3KW 48V 2200RPM ENCODER 48PPR				Metalrota	BM	1	M_MAC_48V_0019								
		6.M1	AC194	MOTOR 3KW 48V 2200RPM ENCODER 48PPR				Metalrota	BM	1	M_MAC_48V_0019								
		11.HN1	171287 171449			SL7-AP24-M SIGNALL. ACUST. MULTISUONO 24V SL7-CB-EMH BASE WITH HOLES EXTERNAL MOUNTING	Eaton	BM	1	E_CCS_ACU_0001									
							Eaton		1	E_ACC_CCS_0008									
		11.LT1	90156 90344			FLASHING MULTICOLOR XLF RGB DIRECTIONAL BASE LT SHALLOW	Sirena	BM	1	M_LMP_MTC_0002									
							Sirena		1	M_ACC_LMP_0001									
		11.LT2	90156 90344			FLASHING MULTICOLOR XLF RGB DIRECTIONAL BASE LT SHALLOW	Sirena	BM	1	M_LMP_MTC_0002									
							Sirena		1	M_ACC_LMP_0001									
12.W1	4C0459-01259.A-BZA	RADIO CONTROL WIRED CONTROL PANEL SGAE STANDARD USA				Hetronic	BM	1	E_CMD_RDC_0009										
B	14.PB1	185156	C22-PVT45P-K02-P65,PULS.,EMERGENCY,A FUNGUS,45MM,UNLOCKING,A,ROT,2,N/C, CABLE 3.5M,WITHOUT CONN.				Eaton	BM	1	E_CCS_EME_0009									
		216483	M22-XBK1 LABEL. ARR. EM. D=60 4 LANGUAGES				Eaton		1	G_TAR_MTL_0001									
	14.PB2	185156			C22-PVT45P-K02-P65,PULS.,EMERGENCY,A FUNGUS,45MM,UNLOCKING,A,ROT,2,N/C, CABLE 3.5M,WITHOUT CONN.	Eaton	BM	1	E_CCS_EME_0009										
						216483		M22-XBK1 LABEL. ARR. EM. D=60 4 LANGUAGES				Eaton	1	G_TAR_MTL_0001					
C	14.PB3	185156			C22-PVT45P-K02-P65,PULS.,EMERGENCY,A FUNGUS,45MM,UNLOCKING,A,ROT,2,N/C, CABLE 3.5M,WITHOUT CONN.	Eaton	BM	1	E_CCS_EME_0009										
						216483		M22-XBK1 LABEL. ARR. EM. D=60 4 LANGUAGES				Eaton	1	G_TAR_MTL_0001					
	14.PB4	185156			C22-PVT45P-K02-P65,PULS.,EMERGENCY,A FUNGUS,45MM,UNLOCKING,A,ROT,2,N/C,CABLE 3.5M,WITHOUT CONN.	Eaton	BM	1	E_CCS_EME_0009										
						216483		M22-XBK1 LABEL. ARR. EM. D=60 4 LANGUAGES				Eaton	1	G_TAR_MTL_0001					
D	21.PRS1	IM5123			INDUCTIVE SENSOR INDUCTIVE SENSOR - SENSOR WITH LONG SWITCHING DISTANCE SWITCHING DISTANCE 20 MM SHIELDED MOUNTING, SWITCHING FREQUENCY 100 HZ ANTIVALENT OUTPUT FUNCTION, DC PNP40 X 40 X 54 MM CABLE WITH M12 4-PIN CONNECTOR ANGLED 10M	Ifm	BM	1	M_SSR_FPX_0016										
						EVC006		Ifm	1	E_CAV_CON_0029									
	21.PRS2	IM5123			INDUCTIVE SENSOR INDUCTIVE SENSOR - SENSOR WITH LONG SWITCHING DISTANCE SWITCHING DISTANCE 20 MM SHIELDED MOUNTING, SWITCHING FREQUENCY 100 HZ ANTIVALENT OUTPUT FUNCTION, DC PNP40 X 40 X 54 MM CABLE WITH M12 4-PIN CONNECTOR ANGLED 10M	Ifm	BM	1	M_SSR_FPX_0016										
						EVC006		Ifm	1	E_CAV_CON_0029									
E	F	27.SQ1	1075842	Laser scanner Micro scan 3 core I/O 4m				Sick	BM	1	M_SSR_LSC_0010								
F					COMMESSA		M2769		DATA 03/07/2026		DOCUMENTO SGAE ±90° R 20/2						SCALA		
									DOC.Nr. M2769_1								Taglia A3 Fogli Totali 49		
					FORD		MORELLO		FILE M2769_REV2_EN		BILL OF MATERIALS								
									DISEGN. R.G.								Foglio Foglio Seguento		
	REV.		MODIFICA		DATA		FIRMA		APPR.								43 44		
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	0	1	2	3	4	5	6	7	8	9											
A	B	C	D	E	F	Nome/Item					Tipo/Type		Descrizione/Description		Costruttore/Marke		Quadro/Board	Q.ta/Q.ty	Codice Interno		
						4.FU1	A3T350	Class T fuse 350A		MERSEN		EP1	1	E_CQD_FUS_0063							
						5.CON1	C29556	CONTACTOR SW80B/6 24V CO 100A(INTERRUPTED)/125A(UNINTERRUPTED)		ZTP		EP1	1	E_CQD_TEL_0007							
						5.FU1	A3T250	Fus. A3t 300v (rapid t Class) 250 a		MERSEN		EP1	1	E_CQD_FUS_0126							
						5.FU2	0442002	5x20f 2a 250v UI,csa Fuse		Italweber		EP1	1								
						5.GF1	470336321	1232SE-6321 48-80V 250A		Curtis		EP1	1	E_CQD_AZN_0008							
						6.CON1	C29556	CONTACTOR SW80B/6 24V CO 100A(INTERRUPTED)/125A(UNINTERRUPTED)		ZTP		EP1	1	E_CQD_TEL_0007							
						6.FU1	A3T250	Fus. A3t 300v (rapid t Class) 250 a		MERSEN		EP1	1	E_CQD_FUS_0126							
						6.FU2	0442002	5x20f 2a 250v UI,csa Fuse		Italweber		EP1	1								
						6.GF1	470336321	1232SE-6321 48-80V 250A		Curtis		EP1	1	E_CQD_AZN_0008							
						10.CON1	LC1D18EHE	TESYS D CONTACTOR - 3P(3 NO) 1 NO 1 NC - AC-3 - <= 440 V 18 A - 48-130 V AC/DC COIL - SCREW TERMINALS		Schneider Electric		EP1	1	E_CQD_RLY_0050							
						10.FU1	DF101 FNQ-20	FUSE HOLDER 32A 10X38 1P FNQ-20 BUSS MIDGET FUSE		Schneider Electric Eaton		EP1	1 1	E_CQD_FUS_0024 E_CQD_FUS_0116							
						10.FU2	DF101 FNQ-20	FUSE HOLDER 32A 10X38 1P FNQ-20 BUSS MIDGET FUSE		Schneider Electric Eaton		EP1	1 1	E_CQD_FUS_0024 E_CQD_FUS_0116							
						10.GS1	RSD-500C-24	DC/DC CONVERTER 33-67V 24V 20A		Mean Well		EP1	1	E_ALM_DTD_0009							
						10.LT1	ZB4BV013	WHITE INDICATOR LAMP HEAD FOR UNIT Ø22 WITH SMOOTH LENS		Schneider Electric		EP1	1	E_CCS_LED_0012							
							ZB4BZ009	FIXING BASE FOR ELECTRICAL ELEMENTS - FOR UNIT Ø 22 MM XB4-A - 10/CONF		Schneider Electric			1	E_ACC_CCS_0007							
							ZBVB1	WHITE LIGHT ELEMENT FOR HEAD Ø22 24V		Schneider Electric			1	E_CCS_LED_0039							
						10.LT2	ZB4BV013	WHITE PILOT LIGHT HEAD FOR Ø22 UNITS WITH SMOOTH LENS		Schneider Electric		EP1	1	E_CCS_LED_0012							
							ZB4BZ009	FIXING BASE FOR ELECTRICAL ELEMENTS - FOR UNITS Ø 22 MM XB4-A - 10/PACK		Schneider Electric			1	E_ACC_CCS_0007							
							ZBVBG1	WHITE HEAD LIGHT ELEMENT Ø22 WITH INTEGRATED LED 24...120V WITH SPRING CLAMPS		Schneider Electric			1	E_CCS_LED_0063							
						10.SS1	ZB4BG05	SELECTOR HEAD FOR Ø22 UNIT WITH 3 POSITIONS WITH SPRING RETURN RONIS 455		Schneider Electric		EP1	1								
							ZB4BZ009	FIXING BASE FOR ELECTRICAL ELEMENTS - FOR UNITS Ø 22 MM XB4-A - 10/PACK		Schneider Electric			1	E_ACC_CCS_0007							
							ZBE101	SINGLE CONTACT BLOCK FOR ROUND PUSHBUTTON Ø 22 MM - 1NO WITH SILVER ALLOY SCREW TERMINALS		Schneider Electric			1	E_CCS_CNT_0007							
						11.ABU1	23265800000 28300000011	IP65 SOUNDER WITH VOLUME ADJUSTMENT GASKET FOR P28 DMX SOUNDER		Pfannenberg Pfannenberg		EP1	1 1	E_CQD_VEN_0013 E_CQD_VEN_0014							
						14.PBL1	ZB4BW313	WHITE LUMINOUS WIRE PUSHBUTTON HEAD FOR UNIT Ø22 WITH SPRING RETURN		Schneider Electric		EP1	1	E_CCS_PLS_0005							
							ZB4BZ009	FIXING BASE FOR ELECTRICAL ELEMENTS - FOR UNIT Ø 22 MM XB4-A - 10/CONF		Schneider Electric			1	E_ACC_CCS_0007							
						REV.	MODIFICA	DATA	FIRMA												
						COMMESSA				M2769		DATA 03/07/2026		DOCUMENTO		SGAE ±90° R 20/2		SCALA			
												DOC.Nr. M2769_1						Taglia A3		Fogli Totali 49	
										FORD		FILE M2769_REV2_EN		BILL OF MATERIALS				Foglio		Foglio Seguento	
												DISEGN. R.G.									
												APPR.									

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A	14.PBL1									
B										
C										
D										
E										
F										

				COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA	
						DOC.Nr.	M2769_1			Taglia	Fogli Totali
						FILE	M2769_REV2_EN			A3	49
						DISEGN.	R.G.			Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA		FORD	APPR.		BILL OF MATERIALS		47	48

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Marke	Quadro/Board	Q.ta/Q.ty	Codice Interno
23.CR4	93.61.7.024	SOCKET WITH MASTERBASIC COMPASS CLAMPS	Finder	EP1	1	E_ACC_RLY_0007
23.LT1	ZB4BV043	RED INDICATOR LAMP HEAD FOR UNIT Ø22 WITH FLAT LENS	Schneider Electric	EP1	1	E_CCS_LED_0014
	ZB4BZ009	FIXING BASE FOR ELECTRICAL ELEMENTS - FOR UNIT Ø 22 MM XB4-A - 10/CONF	Schneider Electric		1	E_ACC_CCS_0007
	ZBVB1	WHITE LIGHT ELEMENT FOR HEAD Ø22 24V	Schneider Electric		1	E_CCS_LED_0039
24.CR1	34.81.7.024.9024 93.61.7.024	MINI RELAY FOR C.S. SSR 1NO 24VDC 6A SOCKET WITH MASTERBASIC COMPASS CLAMPS	Finder	EP1	1	E_CQD_RLY_0029
			Finder		1	E_ACC_RLY_0007
25 x 80	02578	T1-EN 25X80 G CAN. CABL.	Bocchiotti	EP1	0.56	E_CNL_PLA_0003
27.FU1	0442002	5x20f 2a 250v UI,csa Fuse	Italweber	EP1	1	
27.FU2	0442002	5x20f 2a 250v UI,csa Fuse	Italweber	EP1	1	
31.A1	E73008 1456200	CONNECTOR M12 5PIN TO PANEL DUST CAP M12	Ifm	EP1	1	E_CQD_CON_0012
			Phoenix Contact		1	E_ACC_CON_0012
31.D1	EBC116	SHUNT M12 2F 1M	Ifm	EP1	1	E_CON_MAS_0004
31.D2	EBC116	SHUNT M12 2F 1M	Ifm	EP1	1	E_CON_MAS_0004
31.W1	CR0451 EC0403	LCD DISPLAY MOUNTING BRACKET	Ifm	EP1	1	E_CQD_HMI_0001
			Ifm		1	E_ACC_HMI_0001
35 x 15	023650 b=Ø5,5	TS 35x15 b=Ø5,5	Weidmuller	EP1	0.94	E_GUI_DIN_0001
40 x 80	02581	T1-EN 40X80 G CAN. CABL.	Bocchiotti	EP1	2.05	E_CNL_PLA_0002
-B1	ISO2190	PA INSULATING COLUMN M8 H35	Teknomega	EP1	2	E_CQD_ISO_0002
EP1	D93/1063	2-DOOR ELECTRICAL PANEL 1000X600X300	Zanardo	EP1	1	E_QDR_STD_0016
	8004	YALE KEY LOCK	Zanardo		1	E_ACC_QDR_0010
	Adesivo tensione elettrica 140x140x140	ADHESIVE PLATE ELECTRICAL VOLTAGE 140X140X140	VARIE		1	G_TAR_ADS_0007
	Adesivo 48V 140x30	ADHESIVE PLATE 48V 140X30	VARIE		1	G_TAR_ADS_0016
	Adesivo 24V 140x30	ADHESIVE PLATE 24V 140X30	VARIE		1	G_TAR_ADS_0001
	268000-GB	RED ADHESIVE PLATE IN ENGLISH DPR	Cembre		1	G_TAR_ADS_0015
	ZB5SZ3	BLACK CIRCULAR SHUTTER CAP Ø22	Schneider Electric		2	E_ACC_CCS_0004
	7590745	POLYCARBONATE INSPECTION WINDOW 26MM X 218MM X 248MM, IP65	WIMEX		1	
EP1	RRPTAL94554510	ALUMINIUM PLATE 945X545X10	REAR	EP1	1	E_ACC_QDR_0027
W1	E11598	CANOPEN CABLE M12 M-CABLES 2M	Ifm	EP1	1	E_CAV_CON_0016
W2	7000-40542-8030110	CANOPEN CABLE M12 M-F 90° 1.10M	MURR ELEKTRONIK	EP1	1	E_CAV_CON_0061
W3	E11591	CANOPEN CABLE M12 M-F 0.30M	Ifm	EP1	1	E_CAV_CON_0005
W4	7000-40542-8030110	CANOPEN CABLE M12 M-F 90° 1.10M	MURR ELEKTRONIK	EP1	1	E_CAV_CON_0061
X1	2429860000	Afs 4 2c Bk Fuse Terminal Block, Push In, 4 Mm², 500 V, 6.3 A, Black	Weidmuller	EP1	4	E_CQD_TER_0019
	1674300000	Morsetto doppio ZDK 2.5/1.5	Weidmuller		28	E_CQD_TER_0010
	1689990000	Morsetto doppio ZDK 2.5/1.5 V	Weidmuller		48	E_CQD_TER_0011
	9540000000	Terminale di fissaggio per TS 35 ZEW 35 /6mm	Weidmuller		2	E_CQD_TER_0018

				COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA	
				FORD		D.O.C.Nr.	M2769_1		Tavola	A3	Fogli Totali
						FILE	M2769_REV2_EN	BILL OF MATERIALS	Foglio	48	Foglio Seguento
						DISEGN.	R.G.				
REV.	MODIFICA	DATA	FIRMA				APPR.				

Nome/Item	Tipo/Type	Descrizione/Description	Costruttore/Marke	Quadro/Board	Q.ta/Q.ty	Codice Interno
XP3	CSHM 16	Socket plug, 16 pin PE, connection with Squich spring clamp, 16A max, 500 V, 6kV, 3, with male contacts, silver-plated, size 77.27, Frutti Series Class Tecnica	Ilme	PB1	1	E_CON_MAS_0003
	CHV 16 L	Mobile enclosure with single lock with pegs, vertical outlet PG 21	Ilme		1	E_ACC_CON_0002

				COMMESSA	M2769	DATA	03/07/2026	DOCUMENTO	SGAE ±90° R 20/2	SCALA	
						DOC.Nr.	M2769_1			Taglia	Fogli Totali
										A3	49
						FILE	M2769_REV2_EN	BILL OF MATERIALS		Foglio	Foglio Seguento
REV.	MODIFICA	DATA	FIRMA		FORD	DISEGN.	R.G.			49	/
						APPR.					