



Danieli Automation
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CUSTOMER

ARCONIC UK HOLDINGS LIMITED

PROJECT DESCRIPTION

=MD01E10+PLC01

Hot Mill drives upgrade - Automation system electrical diagram

DRAWING NUMBER

QPC7V9-MD01-A8100-ED101

REVISION

00

JOB NO

APC7V9A1

REVISION DESCRIPTION

FOR MANUFACTURING

GENERAL NOTES		
REFERENCE STANDARDS	EN 60204-1: 2018	
WIRES MARKERS	-COMPONENT:TERMINAL	EXAMPLE -K01:A1

TECHNICAL COMPLEMENTARY DOCUMENTS LIST		
AUTOMATION BLOCK DIAGRAM	QPC7V9-MD01-A8000-ED023	REV00
MOTOR AND SENSOR LIST		
EQUIPMENT LIST	QPC7V9-MD01-E9000-EL123	REV00
NETWORK DIAGRAM	QPC7V9-MD01-A8000-ED043	REV03
JOB SAFETY DOCUMENTS		

CIRCUIT	VOLTAGE	WIRE COLOR	IEC 60757	WIRE TYPE
POWER CIRCUIT	1~ 230 VAC 50 Hz	BLACK	BK	FS17
COMMAND CIRCUIT AC	1~ 110 VAC 50 Hz	RED	RD	FS17 (H07V-K 2,5 mm ²)
COMMAND CIRCUIT DC	24 V	BLUE	BU	FS17 (H05V-K 0,75 mm ²)
EXTERNAL CIRCUIT		ORANGE	OG	FS17
NEUTRAL		WHITE	WH	FS17
PROTECTIVE EARTH	TN-C	GREEN-YELLOW	GN/YE	FS17

0	1	2	3	4	5	6	7	8	9
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=LAYOUT+PLC01/11.4

=MD01E10+PLC01
HOT MILL DRIVES UPGRADE
PLC SWITCHBOARD

=LAYOUT+PLC01/11.4

=MD01E10+PLC01

HOT MILL DRIVES UPGRADE PLC SWITCHBOARD

Danieli Automation SpA

Via Bonaldo Stringher 4 - 33042 Buttrio (UD) - Italy

Serial No **QPC7V9-MD01-A8100-EM001**

Drawing No **QPC7V9-MD01-A8100-ED101**

Rated Voltage (Un)	Phases No	Frequency (fn)	Full Load Current (Inc)	Max Permissible Short-Circuit current (Max Icp)
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Supply 1	110 VAC	1 Ph	50 Hz	12 A	10 kA
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Supply 2	110 VAC	1 Ph	50 Hz	5 A	10 kA
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Supply 3	230 VAC	1 Ph	50 Hz	4 A	10 kA
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Manufacturing Year **2024**

Ref. Std.: EN 60204-1



=LAYOUT+RIO01/15.5

=MD01E10+RIO01
MILL PULPIT OPERATOR STATION
REMOTE I/O SWITCHBOARD

=LAYOUT+RIO01/15.5

=MD01E10+RIO01

MILL PULPIT OPERATOR STATION REMOTE I/O SWITCHBOARD

Danieli Automation SpA

Via Bonaldo Stringher 4 - 33042 Buttrio (UD) - Italy

Serial No **QPC7V9-MD01-A8100-EM002**

Drawing No **QPC7V9-MD01-A8100-ED101**

Rated Voltage (Un)	Phases No	Frequency (fn)	Full Load Current (Inc)	Max Permissible Short-Circuit current (Max Icp)
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Supply 1	110 VAC	1 Ph	50 Hz	4 A	10 kA
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Supply 2	110 VAC	1 Ph	50 Hz	1 A	10 kA
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Supply 3	230 VAC	1 Ph	50 Hz	4 A	10 kA
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Manufacturing Year **2024**

Ref. Std.: EN 60204-1



=LAYOUT+RIO02/19.1

=MD01E10+RIO02

SHEAR OPERATOR STATION REMOTE I/O PLATE

Danieli Automation SpA

Via Bonaldo Stringher 4 - 33042 Buttrio (UD) - Italy

Serial No **QPC7V9-MD01-A8100-EM003**

Drawing No **QPC7V9-MD01-A8100-ED101**

Rated Voltage	Phases No	Frequency	Full Load Current	Max Permissible Short-Circuit current
(Un)		(fn)	(Inc)	(Max Icp)

Supply 1	110 VAC	1 Ph	50 Hz	4 A	10 kA
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Supply 2	110 VAC	1 Ph	50 Hz	1 A	10 kA
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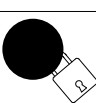































































Supply 3



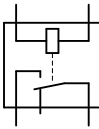


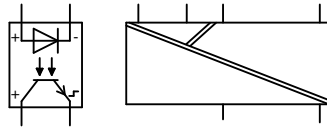


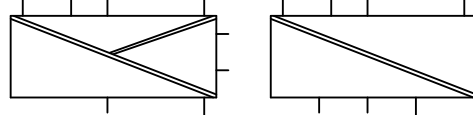







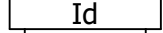
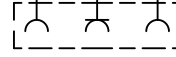
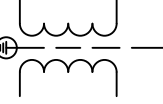
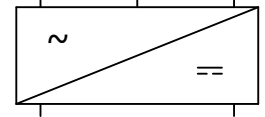
Manufacturing Year **2024**



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








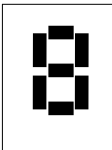




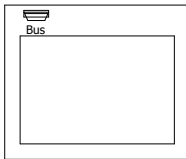




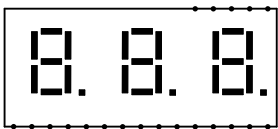
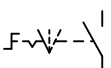
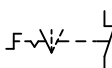


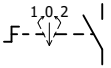










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				Drawn	TeraWatt							electrical diagram		+
				Check	DiMaioD									
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.	Job Nr.			Dwg.Nr.	Page	2.a
									APC7V9A1			OPC7V9-MD01-A8100-ED101	Follow	3.a

0		1		2		3		4		5		6		7		8		9	
LAYOUT SYMBOLS		DESCRIPTION																	
		LAMP																	
		PUSHBUTTON																	
		LIGHT PUSHBUTTON																	
		SELECTOR FIXED POSITIONS																	
		SELECTOR SWITCHING POSITIONS																	
		SELECTOR WITH KEY																	
		FAST STOP MUSHROOM PUSHBUTTON																	
		EMERGENCY MUSHROOM PUSHBUTTON																	
		EMERGENCY MUSHROOM PUSHBUTTON WITH KEY																	
		EMERGENCY LOCKABLE MUSHROOM PUSHBUTTON																	
		EMERGENCY LOCKABLE MUSHROOM PUSHBUTTON WITH KEY																	
		LIGHT MUSHROOM PUSHBUTTON WITH KEY																	
		LIGHT MUSHROOM PUSHBUTTON																	
		JOYSTICK																	
		POTENTIOMETER																	
		COVER																	
		BAR GRAPH																	
		DISPLAY BCD																	
		ANALOG DISPLAY																	
GRAPHICAL SYMBOLS STANDARDS ISO 7000 IEC 60417		DESCRIPTION				GRAPHICAL SYMBOLS STANDARDS ISO 7000 IEC 60417				DESCRIPTION									
		LAMP TEST								RUN FORWARD NORMAL SPEED									
		MANUAL								RUN BACKWARD NORMAL SPEED									
		READY								RUN FORWARD FAST SPEED									
		ON (POWER ON)								RUN BACKWARD FAST SPEED									
		OFF (POWER OFF)								JOG FORWARD									
		STAND BY								JOG BACKWARD									
		ON-OFF								INCREASE									
		START								DECREASE									
		STOP								LIFTING TO SET POSITION									
		FAST STOP								FORWARD TO SET POSITION									
		LOCK								LOWERING TO SET POSITION									
		UNLOCK								BACKWARD TO SET POSITION									
		MOTOR SIDE								CLOCKWISE ROTATION									
		OPERATOR SIDE								COUNTERCLOCKWISE ROTATION									
		SETUP								ROTATION IN BOTH DIRECTION									
		RESET								LIFTING									
		CALL FOR MAINTENANCE								LIFTING-RIGHT									
		GENERAL FAULT								FORWARD									
		CLAMPING (CLOSE)								LOWERING-RIGHT									
		UNCLAMPING (OPEN)								LOWERING									
		TEST CYCLE (ONE CYCLE)								LOWERING-LEFT									
		AUTOMATIC CYCLE								BACKWARD									
		HOME POSITION								LIFTING-LEFT									
		PLUS (INCREASE)								LIFTING FAST SPEED									
		MINUS (DECREASE)								LOWERING FAST SPEED									
		CAUTION								EMERGENCY STOP									
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				IEC-ISO LAYOUT SYMBOLS LEGEND				Hot Mill drives upgrade - Automation system electrical diagram				=	
				Drawn	TeraWatt													+	
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.	Job Nr. APC7V9A1		Dwg.Nr. QPC7V9-MD01-A8100-ED101		Page Follow		3.a 3.b			



0		1		2		3		4		5		6		7		8		9	
Terminal						Coil						Relay module (example)							
Disconnecting terminal						NO contact, NC contact						Optocouplers							
Fused terminal						Power NO contact						Signal converter / adapter							
Fused terminal with LED						Fuse													
Fused disconnecting terminal with LED						Switch disconnecter													
Female and male pin connection						Thermal-magnetic circuit breaker													
Drawers power clamp (withdrawable terminal)						Residual-current device													
Socket with PE, three-pole						Transformer													
						Power supply unit													

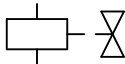


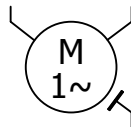


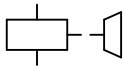


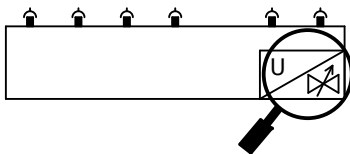

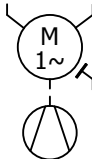



00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				SYMBOLS LEGEND		Hot Mill drives upgrade - Automation system electrical diagram		=	
				Drawn	TeraWatt									+	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original		Replaced by		Replaced by		Descript.		Job Nr.	Dwg.Nr.	Page	3.b
												APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	3.c



0		1		2		3		4		5		6		7		8		9			
Pushbutton operated by pushing								Emergency stop switch / Emergency stop pushbutton, with pull-to-reset								Lamp / indicator light					
Pushbutton operated by turning								Emergency stop switch / Emergency stop pushbutton, key release								Display					
Switch, operated by turning								Emergency stop switch / Emergency stop pushbutton, with turn-to-reset								Operator panel					
Two positions Switch, operated by turning								Pushbutton, pedal-operated								Instrument					
3 switching positions Switch, operated by turning								Cam switch, NO contact, NC contact													
3 switching positions Switch, operated by turning								Emergency stop switch / Emergency stop pushbutton													
Switch, operated by key								Auxiliary NO contact, NC contact													



00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		SYMBOLS LEGEND				Hot Mill drives upgrade - Automation system electrical diagram				=	
				Drawn	TeraWatt													+	
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by		Descript.		Job Nr.	Dwg.Nr.	Page	3.c			
													APC7V9A1	OPC7V9-MD01-A8100-ED101	Follow	3.d			



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Limit switch (SHE)						Motor overspeed switch						Pressure transducer (BD)							
Pressure switch (FD)						Edge position detector (BLS)						Level transducer (BH)							
Level switch (FH)						Photocell (BFZI)						Flow transducer (BQ)							
Flow switch (FQ)						Photocell, light barrier (BLST)						Temperature transducer (BT)							
Temperature switch (FT)						Incremental encoder (BN)						Pyrometer (BP)							
Proximity switch (SBE)						Absolute encoder (BS)						Linear transducer (BS_L)							
Magnetic proximity switch						Resolver						Thermocouple (BT_TC)							
						Angular position transducer						Humidity sensor							
												Load cell							

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	<div> ARCONIC</div>			<div> DANIELI AUTOMATION</div>			SYMBOLS LEGEND			Hot Mill drives upgrade - Automation system			=	
				Drawn	TeraWatt										electrical diagram			+	
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by		Descript.	Job Nr.	Dwg.Nr.	Page	3.d				
												APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	3.e				



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Solenoid valve												Heating element												Protective ground											
Motor												Light-emitting diode (LED)												Ground, low-noise											
Solenoid brake												Diode												Ground											
Proportional valve												Capacitor																							
Fan												Battery																							
Horn																																			
Resistor																																			

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC						SYMBOLS LEGEND			Hot Mill drives upgrade - Automation system			=	
				Drawn	TeraWatt													+	
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original		Replaced by			Replaced by			Descript.			Job Nr.	Dwg.Nr.	Page	3.e	
															APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	4	

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Mounting location		Page	Rev	Page description		Mounting location		Page	Rev	Page description									
		1	00	COVER PAGE		=MD01E10+PLC01		119	00	CARDS ARRANGEMENT RACK									
		2.a	00	EQUIPMENT LIST		=MD01E10+PLC01		121	00	CARDS ARRANGEMENT RACK									
		3.a	00	IEC-ISO LAYOUT SYMBOLS LEGEND		=MD01E10+RIO01		123	00	INCOMING LINE									
		3.b	00	SYMBOLS LEGEND		=MD01E10+RIO01		125	00	POWER SUPPLY DISTRIBUTION									
		3.c	00	SYMBOLS LEGEND		=MD01E10+RIO01		127	00	UPS POWER SUPPLY DISTRIBUTION									
		3.d	00	SYMBOLS LEGEND		=MD01E10+RIO01		129	00	24VDC POWER SUPPLY DISTRIBUTION									
		3.e	00	SYMBOLS LEGEND		=MD01E10+RIO01		131	00	0V DISTRIBUTION									
		4	00	TABLE OF CONTENTS		=MD01E10+RIO01		133	00	SERVICE LINE POWER SUPPLY DISTRIBUTION									
		4.a	00	TABLE OF CONTENTS		=MD01E10+RIO01		135	00	CARDS ARRANGEMENT RACK									
		4.b	00	TABLE OF CONTENTS		=MD01E10+RIO01		137	00	CARDS ARRANGEMENT RACK									
		5	00	STRUCTURE IDENTIFIER OVERVIEW		=MD01E10+RIO02		139	00	INCOMING LINE									
=LAYOUT+PLC01		11	00	PLC SWITCHBOARD - EXTERNAL VIEW		=MD01E10+RIO02		141	00	POWER SUPPLY DISTRIBUTION									
=LAYOUT+PLC01		13	00	PLC SWITCHBOARD - INTERNAL VIEW		=MD01E10+RIO02		143	00	UPS POWER SUPPLY DISTRIBUTION									
=LAYOUT+RIO01		15	00	REMOTE I/O SWITCHBOARD - EXTERNAL VIEW		=MD01E10+RIO02		145	00	24VDC POWER SUPPLY DISTRIBUTION									
=LAYOUT+RIO01		17	00	REMOTE I/O SWITCHBOARD - INTERNAL VIEW		=MD01E10+RIO02		147	00	0V DISTRIBUTION									
=LAYOUT+RIO02		19	00	REMOTE I/O PLATE - INTERNAL VIEW		=MD01E10+RIO02		155	00	CARDS ARRANGEMENT RACK									
=MD01E10+PLC01		101	00	INCOMING LINE		=MD01E10+NET		201	00	NETWORK DIAGRAM									
=MD01E10+PLC01		103	00	MAIN POWER SUPPLY DISTRIBUTION		=MD01E10+NET		203	00	NETWORK DIAGRAM									
=MD01E10+PLC01		105	00	POWER SUPPLY DISTRIBUTION		=MD01E10+NET		205	00	NETWORK DIAGRAM									
=MD01E10+PLC01		107	00	UPS POWER SUPPLY DISTRIBUTION		=MD01E10+MP→F		221	00	MILL PULPIT INTERFACE PANEL F									
=MD01E10+PLC01		109	00	UPS POWER SUPPLY DISTRIBUTION		=MD01E10+MP→F		223	00	MILL PULPIT INTERFACE PANEL F									
=MD01E10+PLC01		111	00	CPU POWER SUPPLY		=MD01E10+MP→D		225	00	MILL PULPIT INTERFACE PANEL D									
=MD01E10+PLC01		113	00	24VDC POWER SUPPLY DISTRIBUTION		=MD01E10+MP→D		227	00	MILL PULPIT INTERFACE PANEL D									
=MD01E10+PLC01		115	00	0V DISTRIBUTION		=MD01E10+MP→D		229	00	MILL PULPIT INTERFACE PANEL D									
=MD01E10+PLC01		117	00	SERVICE LINE POWER SUPPLY DISTRIBUTION		=MD01E10+MP→D		231	00	MILL PULPIT INTERFACE PANEL D									
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TABLE OF CONTENTS		Hot Mill drives upgrade - Automation system electrical diagram		=					
				Drawn	TeraWatt									+					
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by		Descript.		Job Nr.	Dwg.Nr.	Page					
												APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow				4.a	

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Mounting location		Page	Rev	Page description		Mounting location		Page	Rev	Page description									
=MD01E10+MP→D		233	00	MILL PULPIT INTERFACE PANEL D		=MD01E10+SPARES		283	00	SPARES									
=MD01E10+MP→D		235	00	MILL PULPIT INTERFACE PANEL D		=MD01E10+SPARES		285	00	SPARES									
=MD01E10+MP→C		237	00	MILL PULPIT INTERFACE PANEL C		=MD01E10+SPARES		287	00	SPARES									
=MD01E10+MP→C		239	00	MILL PULPIT INTERFACE PANEL C		=MD01E10+SPARES		289	00	SPARES									
=MD01E10+MP→C		241	00	MILL PULPIT INTERFACE PANEL C		=MD01E10+SPARES		291	00	SPARES									
=MD01E10+MP→C		243	00	MILL PULPIT INTERFACE PANEL C		=MD01E10+SPARES		293	00	SPARES									
=MD01E10+MP→C		245	00	MILL PULPIT INTERFACE PANEL C		=MD01E10+SPARES		295	00	SPARES									
=MD01E10+MP→T		247	00	MILL PULPIT INTERFACE PANEL T		=MD01E10+SPARES		297	00	SPARES									
=MD01E10+SP→C		249	00	SHEAR PULPIT INTERFACE PANEL C		=MD01E10+SPARES		299	00	SPARES									
=MD01E10+SP→C		251	00	SHEAR PULPIT INTERFACE PANEL C		=MD01E10+SPARES		301	00	SPARES									
=MD01E10+SP→C		253	00	SHEAR PULPIT INTERFACE PANEL C		=MD01E10+SPARES		303	00	SPARES									
=MD01E10+SP→C		255	00	SHEAR PULPIT INTERFACE PANEL C		=MD01E10+SPARES		305	00	SPARES									
=MD01E10+EMG		257	00	PANEL C EMERGENCY		=MD01E10+SPARES		307	00	SPARES									
=MD01E10+EMG		259	00	SPARE EMERGENCY		=MD01E10+SPARES		309	00	SPARES									
=MD01E10+C2		261	00	PANEL C SECTION 2		=MD01E10+SPARES		311	00	SPARES									
=MD01E10+C3		263	00	PANEL C SECTION 3		=MD01E10+SPARES		313	00	SPARES									
=MD01E10+C3		265	00	PANEL C SECTION 3		=REPORTS+TERMINAL STRIPS		2001	00	TERMINAL STRIP =MD01E10+PLC01-X1									
=MD01E10+C4		267	00	PANEL C SECTION 4		=REPORTS+TERMINAL STRIPS		2002	00	TERMINAL STRIP =MD01E10+PLC01-X11									
=MD01E10+C4		269	00	PANEL C SECTION 4		=REPORTS+TERMINAL STRIPS		2003	00	TERMINAL STRIP =MD01E10+PLC01-X12.1									
=MD01E10+C4		271	00	PANEL C SECTION 4		=REPORTS+TERMINAL STRIPS		2004	00	TERMINAL STRIP =MD01E10+PLC01-X12.2									
=MD01E10+C5		273	00	PANEL C SECTION 5		=REPORTS+TERMINAL STRIPS		2005	00	TERMINAL STRIP =MD01E10+PLC01-X21									
=MD01E10+C5		275	00	PANEL C SECTION 5		=REPORTS+TERMINAL STRIPS		2006	00	TERMINAL STRIP =MD01E10+PLC01-X22									
=MD01E10+SPARES		277	00	SPARES		=REPORTS+TERMINAL STRIPS		2007	00	TERMINAL STRIP =MD01E10+PLC01-X32									
=MD01E10+SPARES		279	00	SPARES		=REPORTS+TERMINAL STRIPS		2008	00	TERMINAL STRIP =MD01E10+PLC01-X35									
=MD01E10+SPARES		281	00	SPARES		=REPORTS+TERMINAL STRIPS		2009	00	TERMINAL STRIP =MD01E10+PLC01-X36									
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TABLE OF CONTENTS		Hot Mill drives upgrade - Automation system electrical diagram		=					
				Drawn	TeraWatt									+					
				Check	DiMaioD							Job Nr.		Dwg.Nr.		Page		4.a	
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.	APC7V9A1	QPC7V9-MD01-A8100-ED101		Follow				4.b		

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Mounting location		Page	Rev	Page description															
=REPORTS+TERMINAL STRIPS		2010	00	TERMINAL STRIP =MD01E10+PLC01-X40															
=REPORTS+TERMINAL STRIPS		2011	00	TERMINAL STRIP =MD01E10+PLC01-X60															
=REPORTS+TERMINAL STRIPS		2012	00	TERMINAL STRIP =MD01E10+RIO01-X1															
=REPORTS+TERMINAL STRIPS		2013	00	TERMINAL STRIP =MD01E10+RIO01-X11															
=REPORTS+TERMINAL STRIPS		2014	00	TERMINAL STRIP =MD01E10+RIO01-X12.1															
=REPORTS+TERMINAL STRIPS		2015	00	TERMINAL STRIP =MD01E10+RIO01-X12.1															
=REPORTS+TERMINAL STRIPS		2016	00	TERMINAL STRIP =MD01E10+RIO01-X12.2															
=REPORTS+TERMINAL STRIPS		2017	00	TERMINAL STRIP =MD01E10+RIO01-X21															
=REPORTS+TERMINAL STRIPS		2018	00	TERMINAL STRIP =MD01E10+RIO01-X22															
=REPORTS+TERMINAL STRIPS		2019	00	TERMINAL STRIP =MD01E10+RIO01-X32															
=REPORTS+TERMINAL STRIPS		2020	00	TERMINAL STRIP =MD01E10+RIO01-X40															
=REPORTS+TERMINAL STRIPS		2021	00	TERMINAL STRIP =MD01E10+RIO02-X1															
=REPORTS+TERMINAL STRIPS		2022	00	TERMINAL STRIP =MD01E10+RIO02-X12.1															
=REPORTS+TERMINAL STRIPS		2023	00	TERMINAL STRIP =MD01E10+RIO02-X22															
=REPORTS+TERMINAL STRIPS		2024	00	TERMINAL STRIP =MD01E10+RIO02-X32															
=REPORTS+TERMINAL STRIPS		2025	00	TERMINAL STRIP =MD01E10+RIO02-X40															
=REPORTS+PARTS LIST		3001	00	PARTS LIST =MD01E10+PLC01															
=REPORTS+PARTS LIST		3002	00	PARTS LIST =MD01E10+PLC01															
=REPORTS+PARTS LIST		3003	00	PARTS LIST =MD01E10+PLC01															
=REPORTS+PARTS LIST		3004	00	PARTS LIST =MD01E10+PLC01															
=REPORTS+PARTS LIST		3005	00	PARTS LIST =MD01E10+RIO01															
=REPORTS+PARTS LIST		3006	00	PARTS LIST =MD01E10+RIO01															
=REPORTS+PARTS LIST		3007	00	PARTS LIST =MD01E10+RIO01															
=REPORTS+PARTS LIST		3008	00	PARTS LIST =MD01E10+RIO01															
=REPORTS+PARTS LIST		3009	00	PARTS LIST =MD01E10+RIO02															
Mounting location		Page	Rev	Page description															
=REPORTS+PARTS LIST		3010	00	PARTS LIST =MD01E10+RIO02															



00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC						TABLE OF CONTENTS		Hot Mill drives upgrade - Automation system		=	
				Drawn	TeraWatt									electrical diagram		+	
				Check	DiMaioD									Job Nr.	Dwg.Nr.	Page	4.b
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by	Descript.		APC7V9A1	QPC7V9-MD01-A8100-ED101		Follow	5	

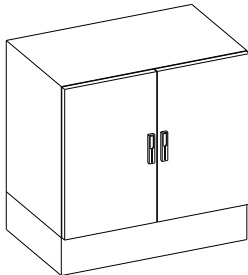
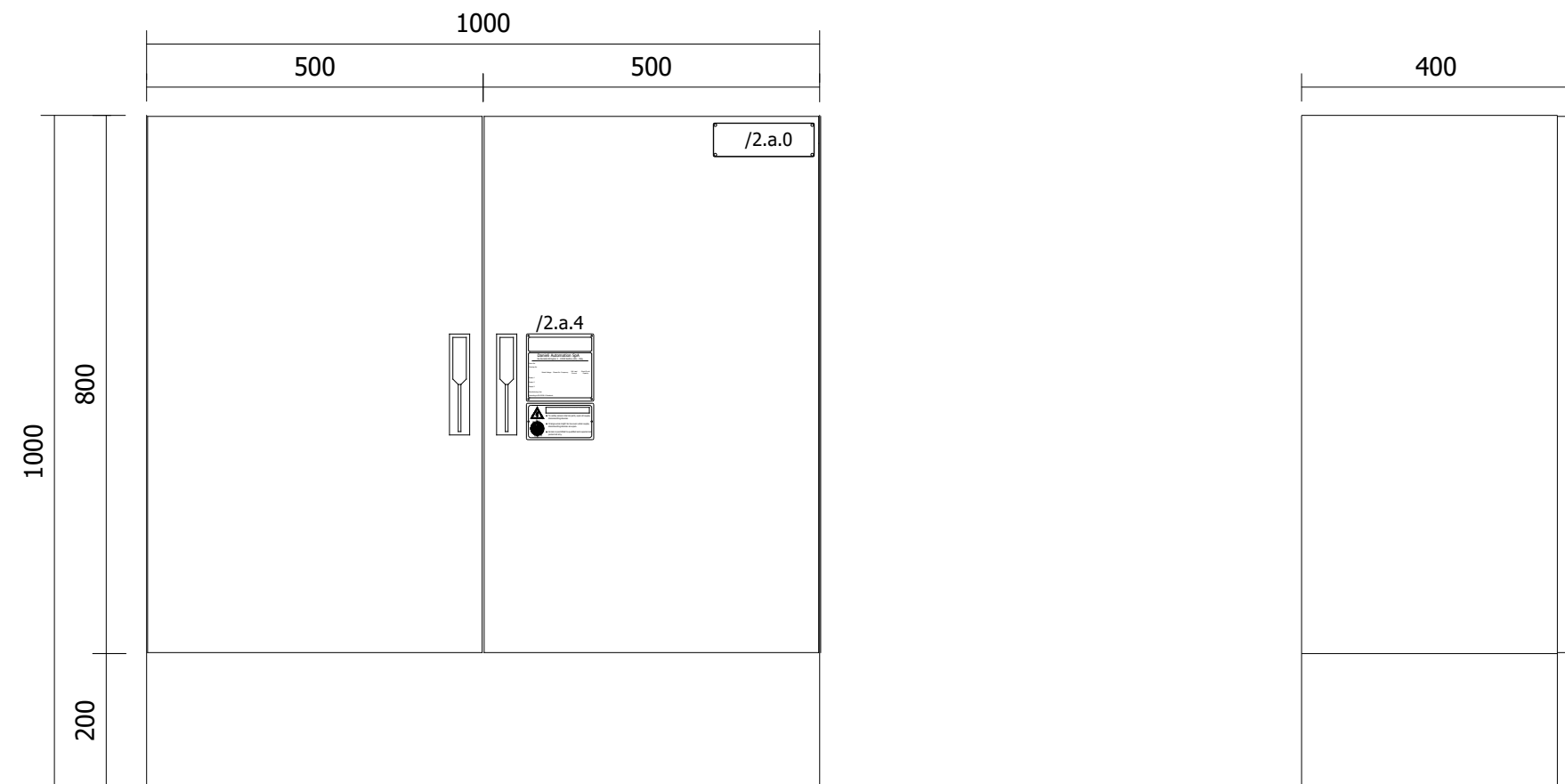


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Structure identifier overview

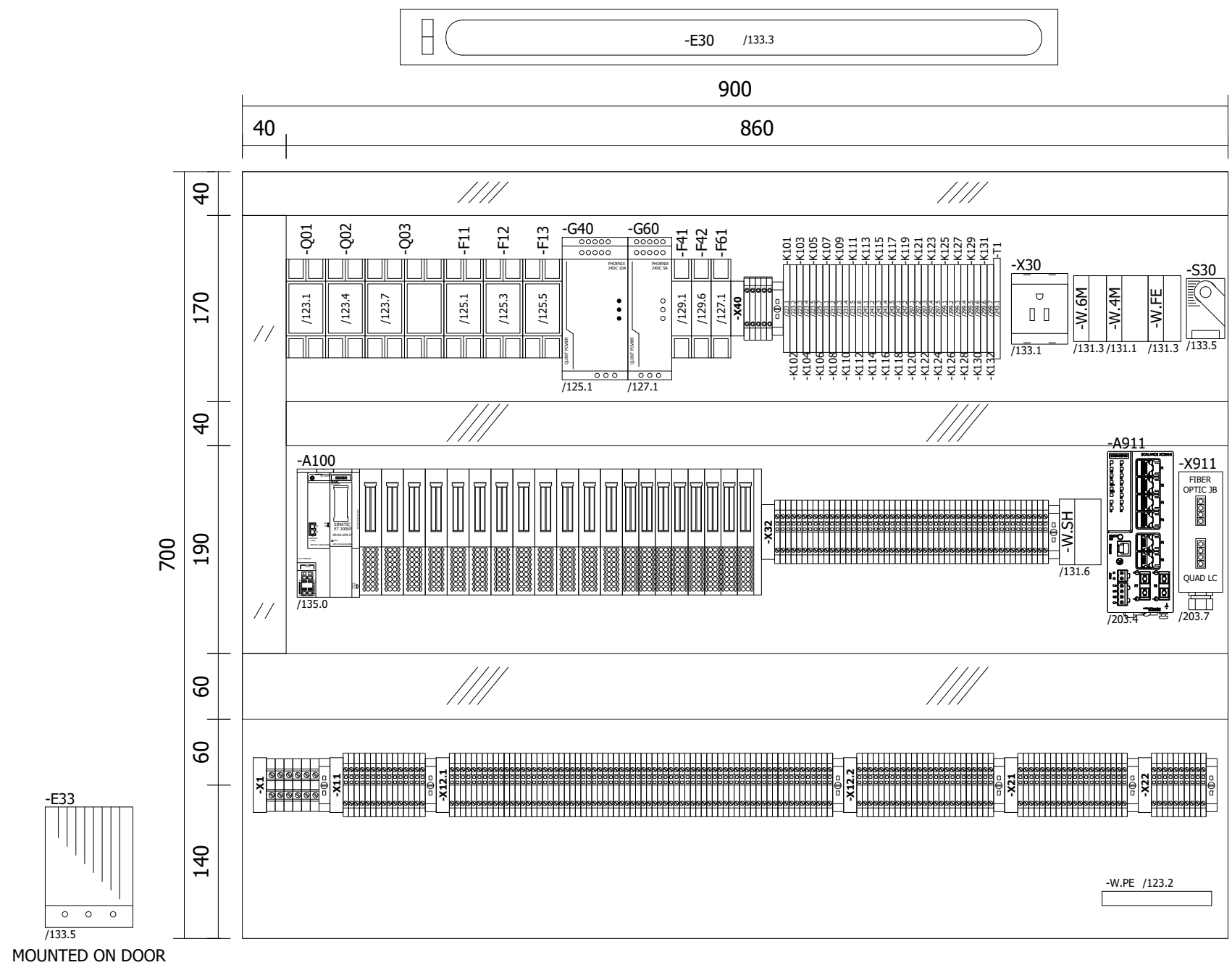
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00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC	 DANIELI AUTOMATION	STRUCTURE IDENTIFIER OVERVIEW	Hot Mill drives upgrade - Automation system electrical diagram		=	
				Drawn	TeraWatt						+	
				Check	DiMaioD							
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	
									APC7V9A1	QPC7V9-MD01-A8100-ED101	5	
											Follow	=LAYOUT+PLC01/11

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<div></div>				<div>External view</div> <div></div>															
DIMENSIONS				W1000xH800+200xD400 mm															
WEIGHT				NN kg															
TYPE OF INSTALLATION				ON FLOOR															
POWER LOSSES				NN W															
PROT. DEGREE EXT./INT.				IP32 IP20															
MECHANICAL PROT.				IK10															
FORM SEPARATIONS				1															
POLLUTION DEGREE				3															
SERVICE CONDITIONS				N.A.															
INSTALL. ENVIRONMENT				CONTROL ROOM															
ALTITUDE				0m															
H24 AVS MAX TEMP.				-															
MIN. TEMPERATURE				10°C															
MAX TEMPERATURE				25°C															
MAX HUMIDITY				70%															
PAINTING				RAL7035															
LOCK INSERTED				DOUBLE-BIT 3mm INSERT															
CARPENTRY MANUF.				-															
CARPENTRY CODE				-															
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				REMOTE I/O SWITCHBOARD - EXTERNAL VIEW		Hot Mill drives upgrade - Automation system electrical diagram		= LAYOUT + RIO01					
				Drawn	TeraWatt							Job Nr.	Dwg.Nr.	Page					
				Check	DiMaioD							APC7V9A1	OPC7V9-MD01-A8100-ED101	15					
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.						Follow					
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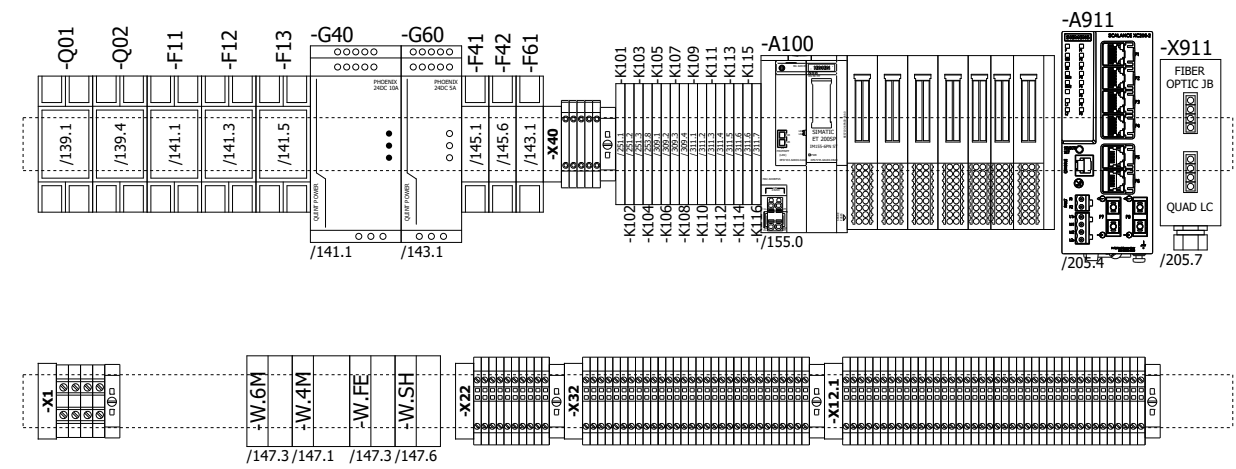
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			Drawn	TeraWatt					+ RIO01		
			Check	DiMaioD							
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.	Job Nr. APC7V9A1	Dwg.Nr. OPC7V9-MD01-A8100-ED101	Page Follow +RIO02/19

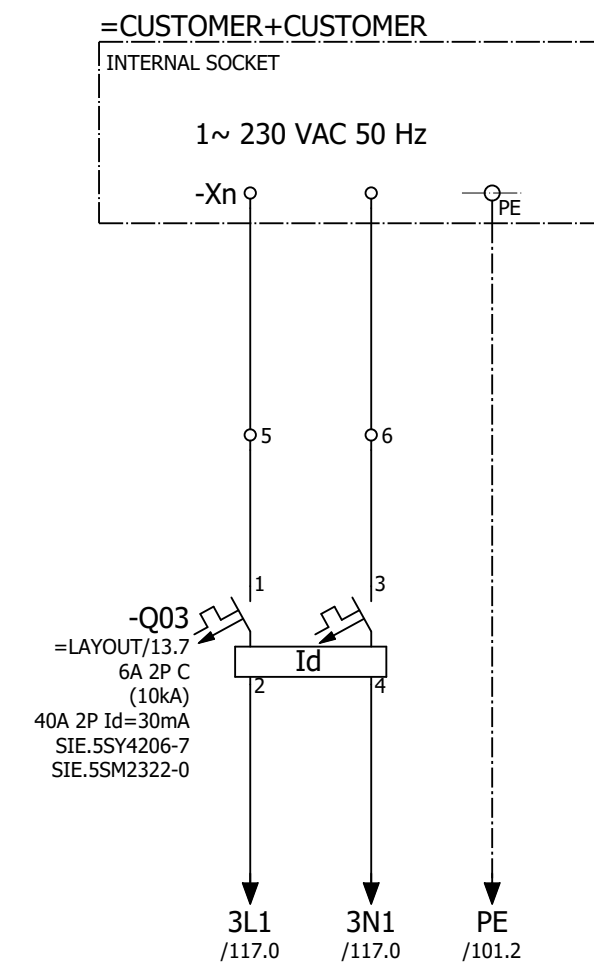
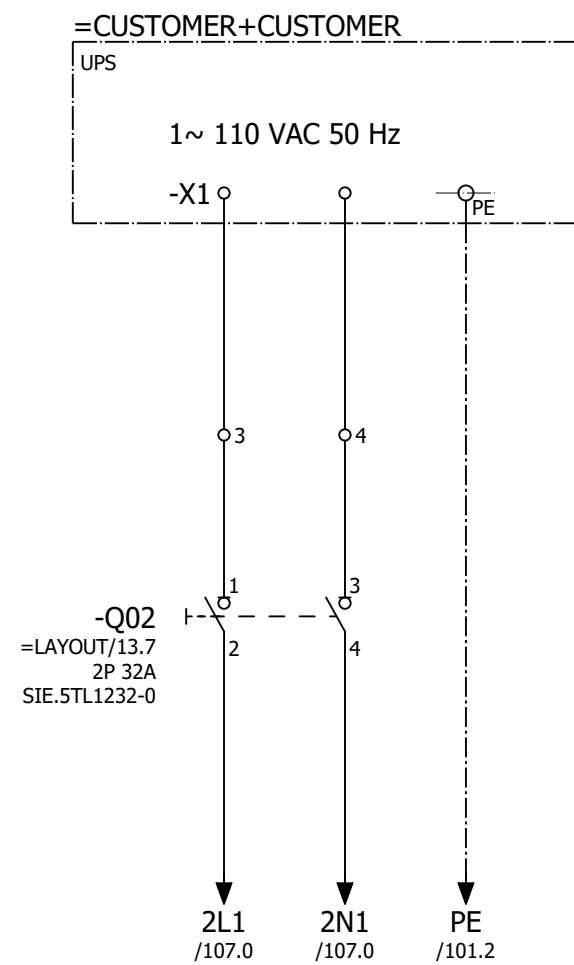
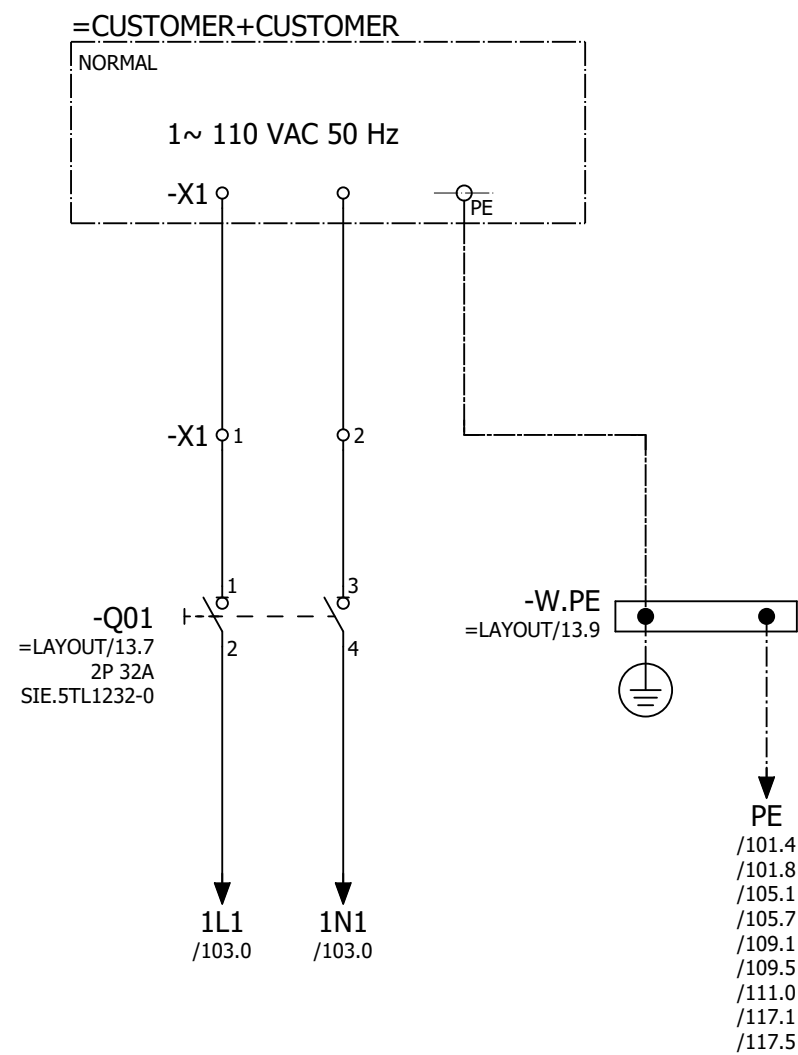
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COMPONENTS TO BE INSTALLED IN EXISTING SHEAR PULPIT

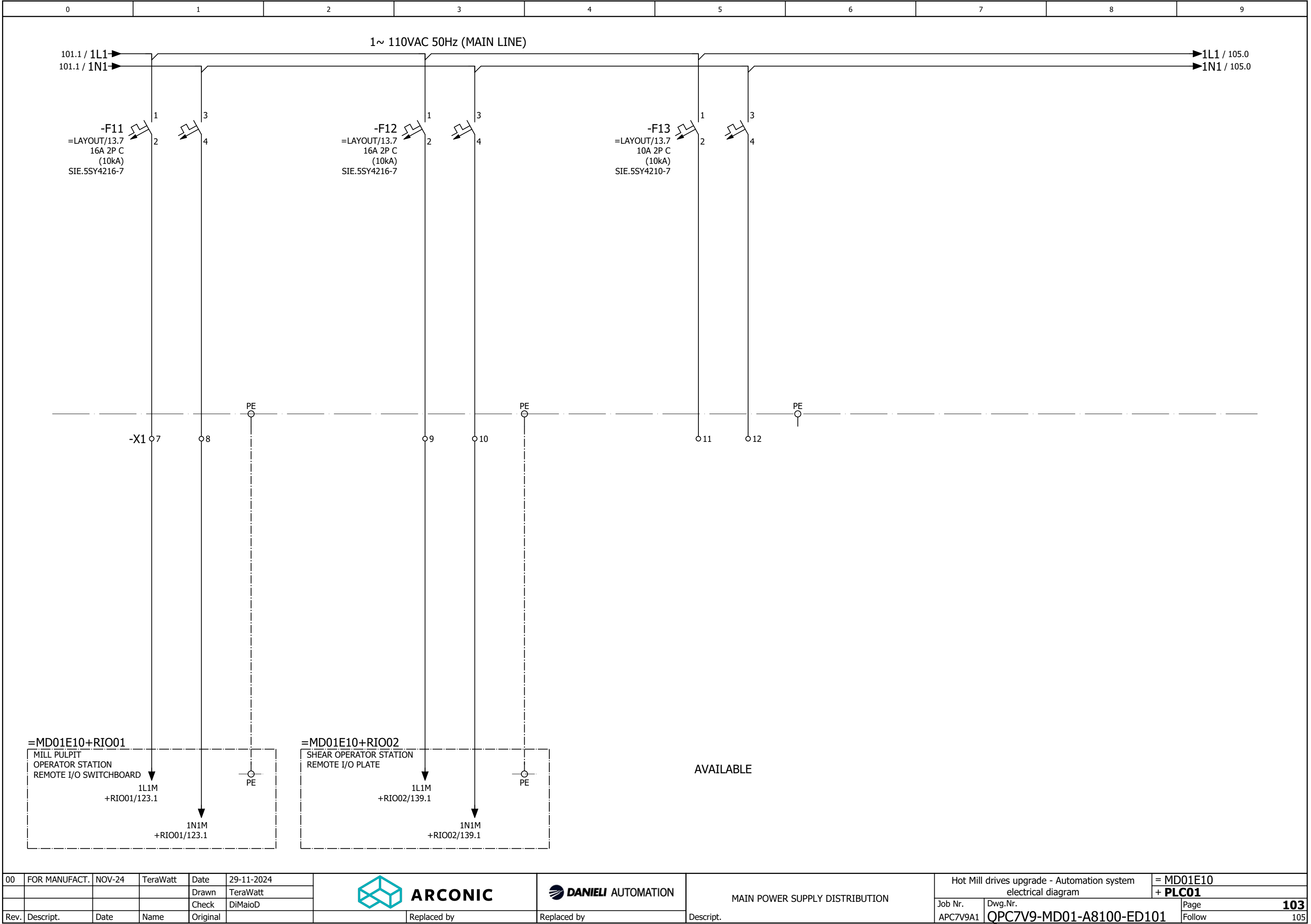


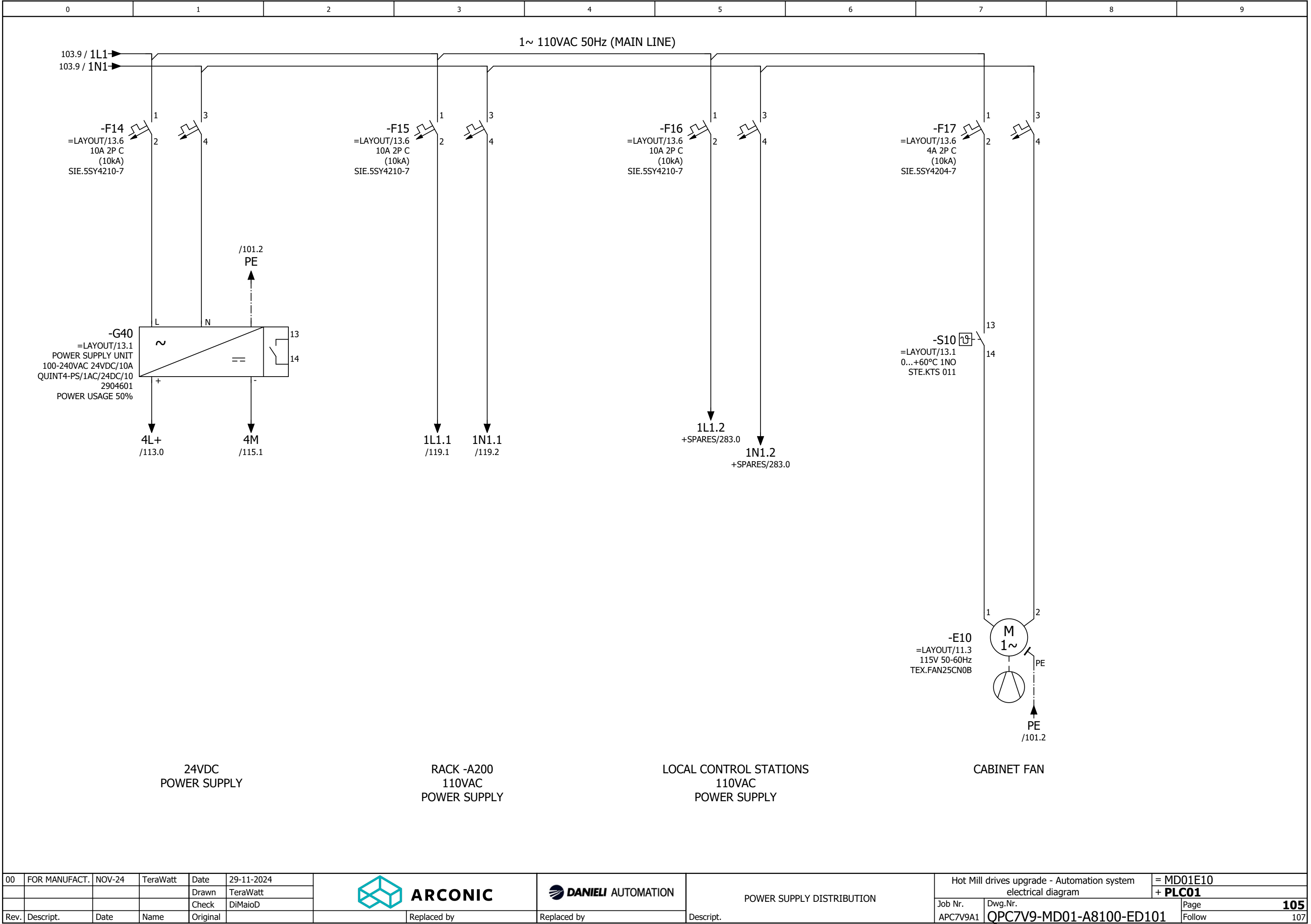


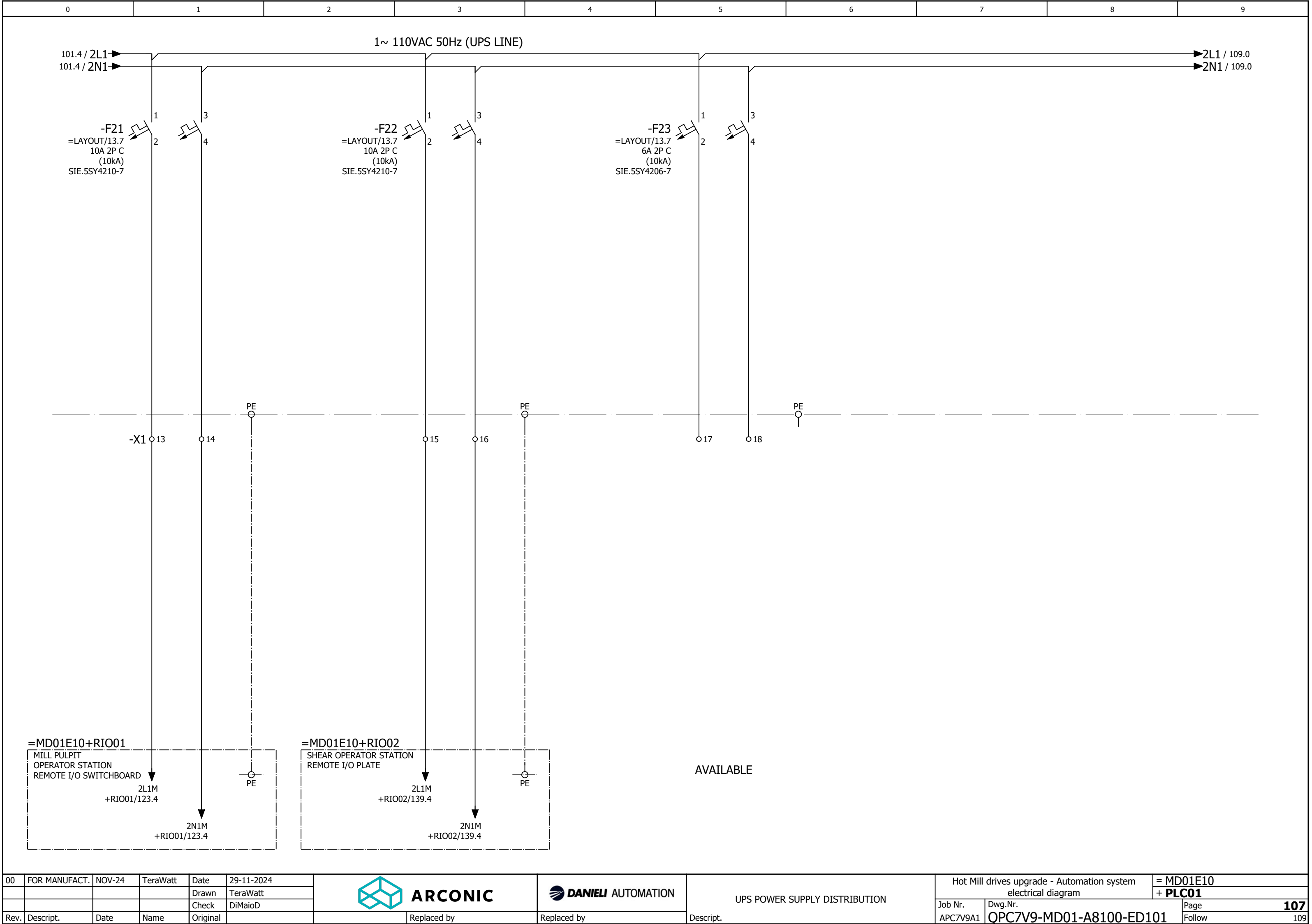
MAIN INCOMING
LINE

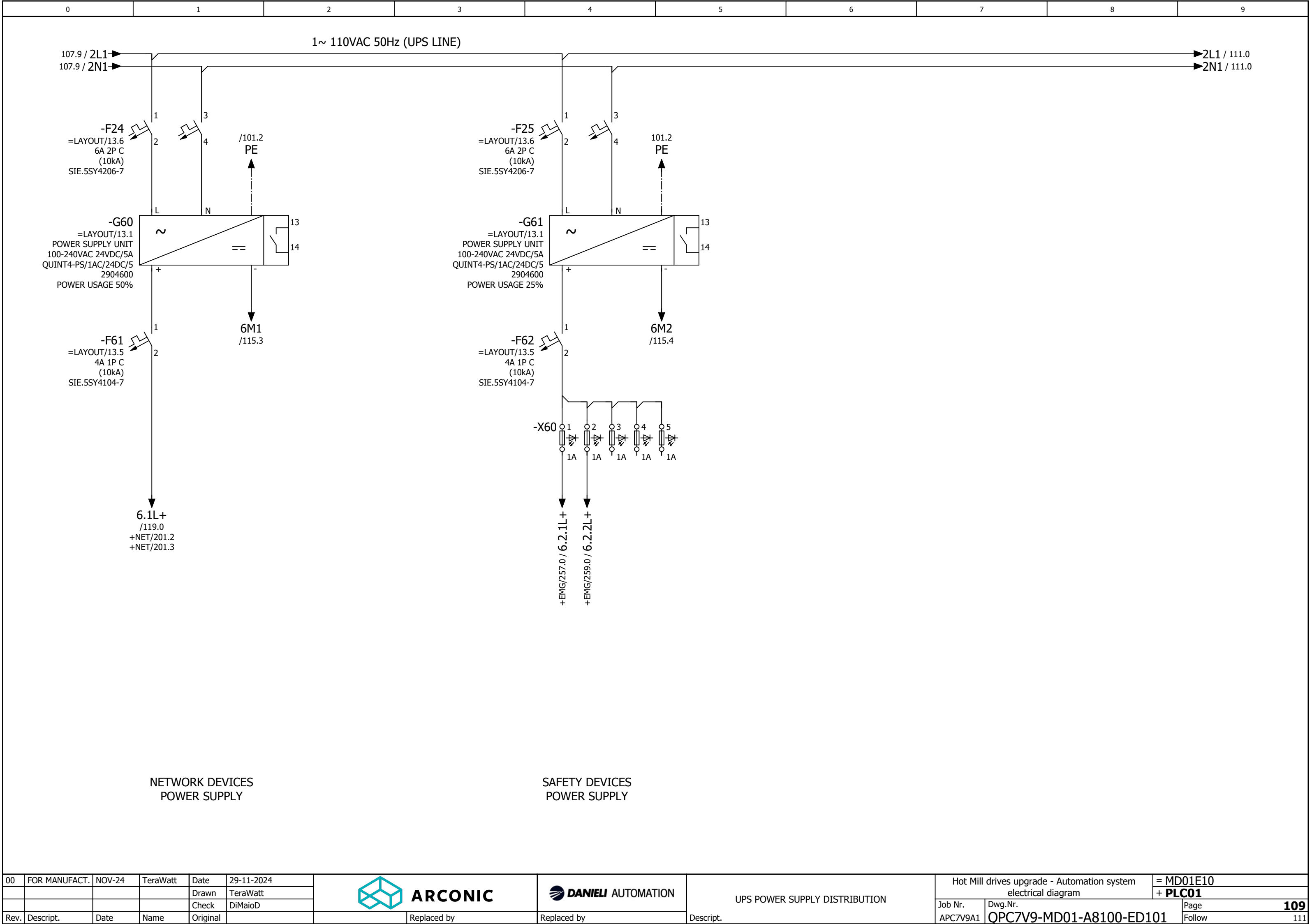
UPS INCOMING LINE

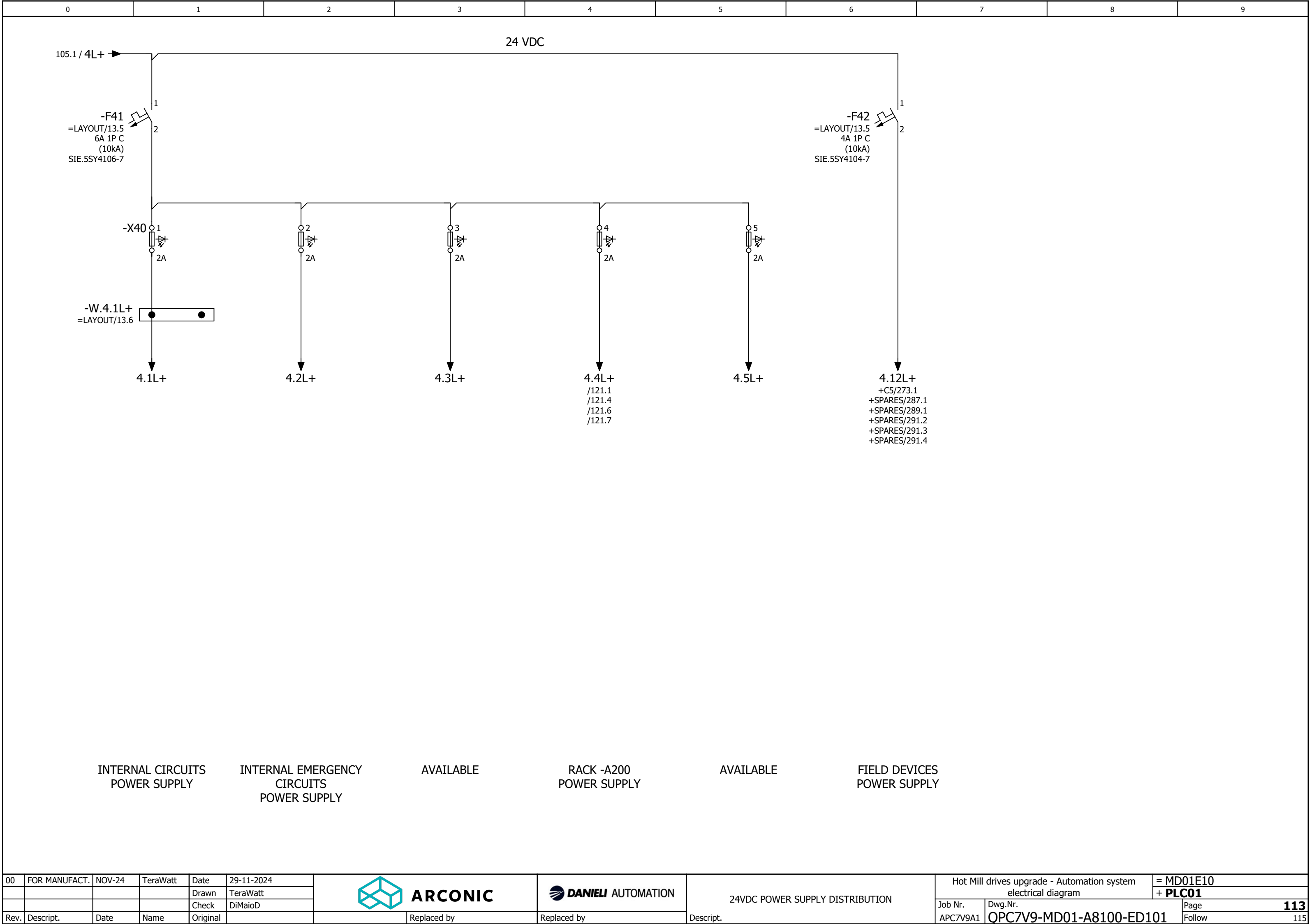
SERVICE INCOMING
LINE

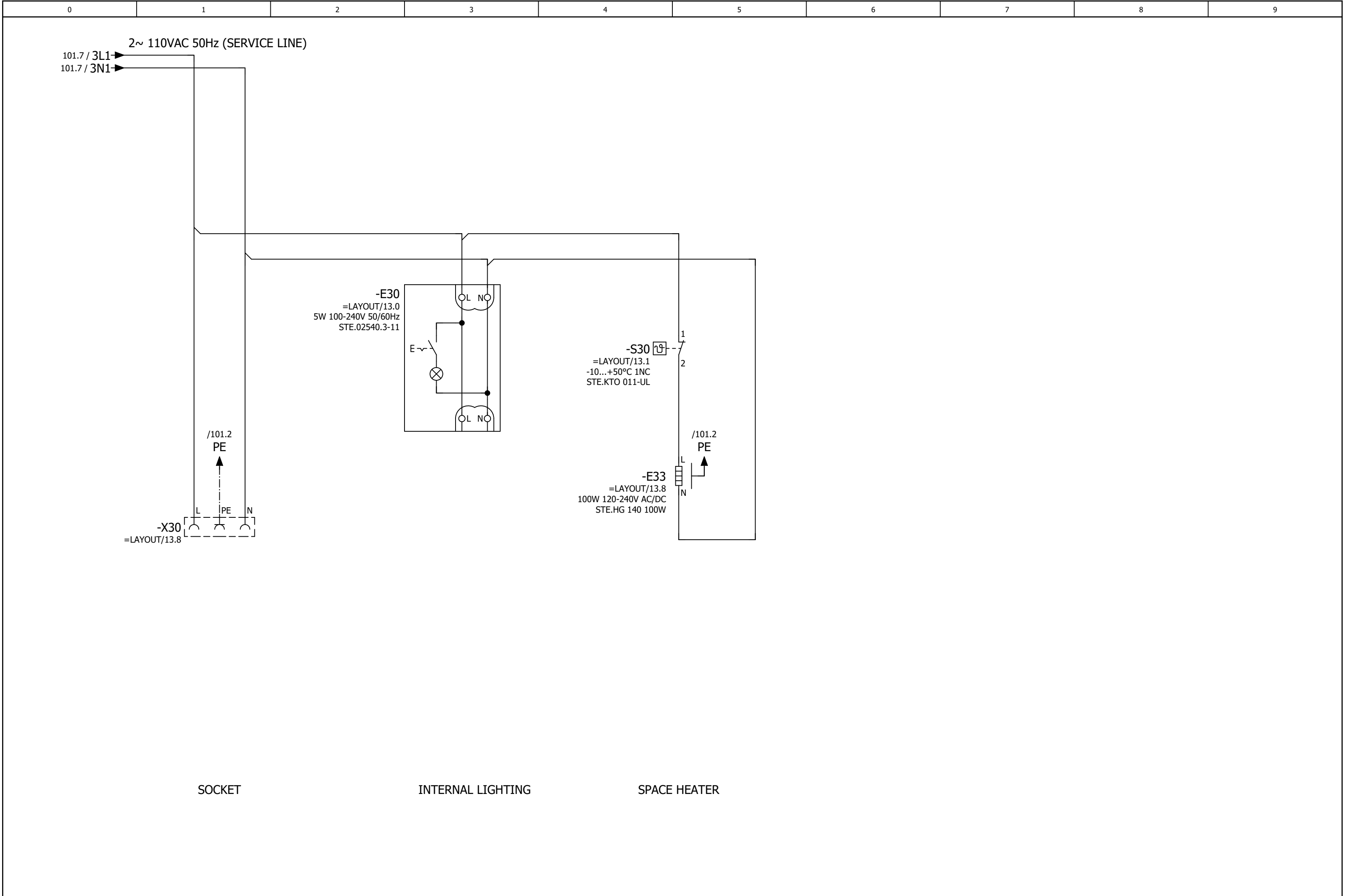


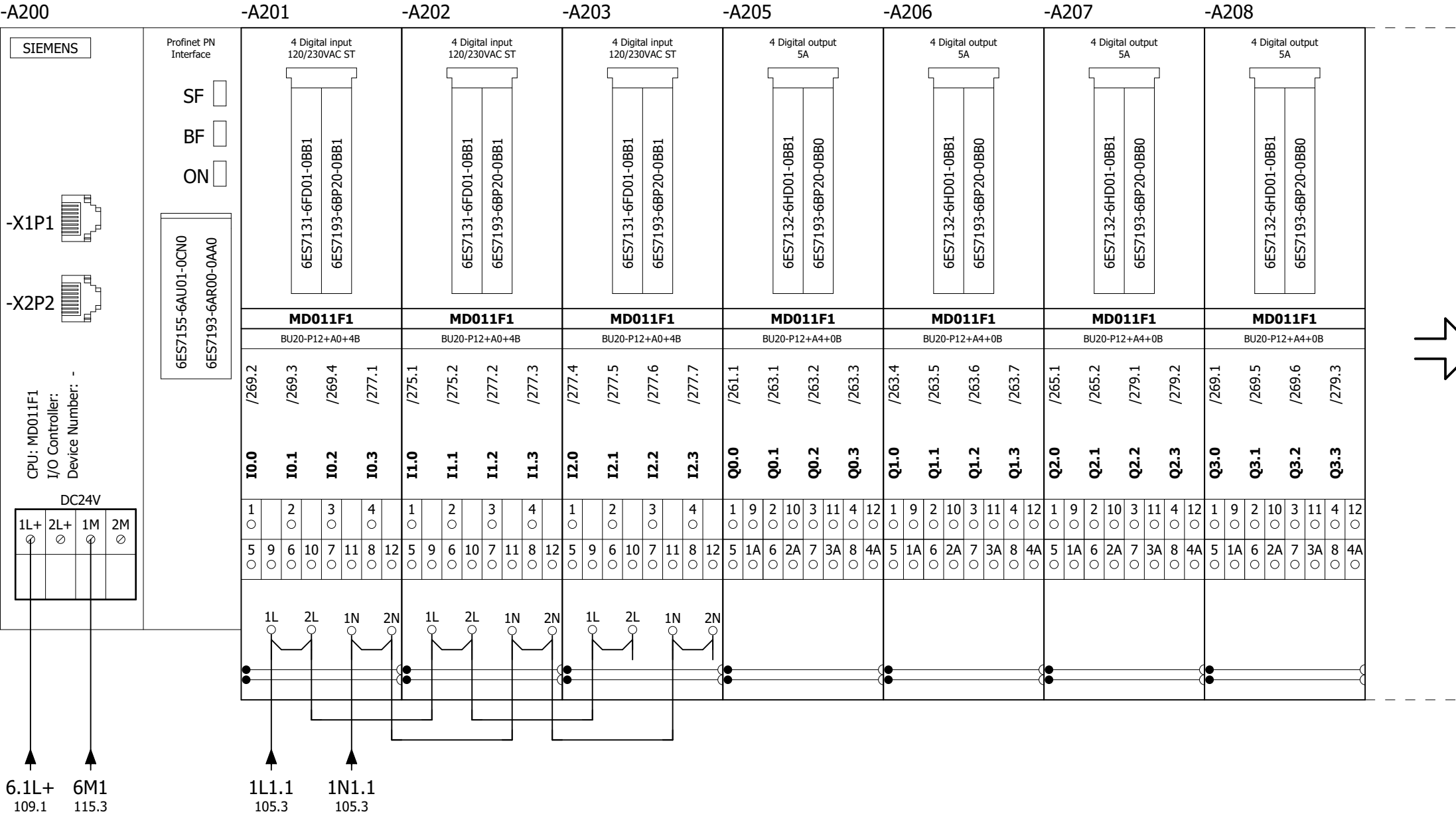




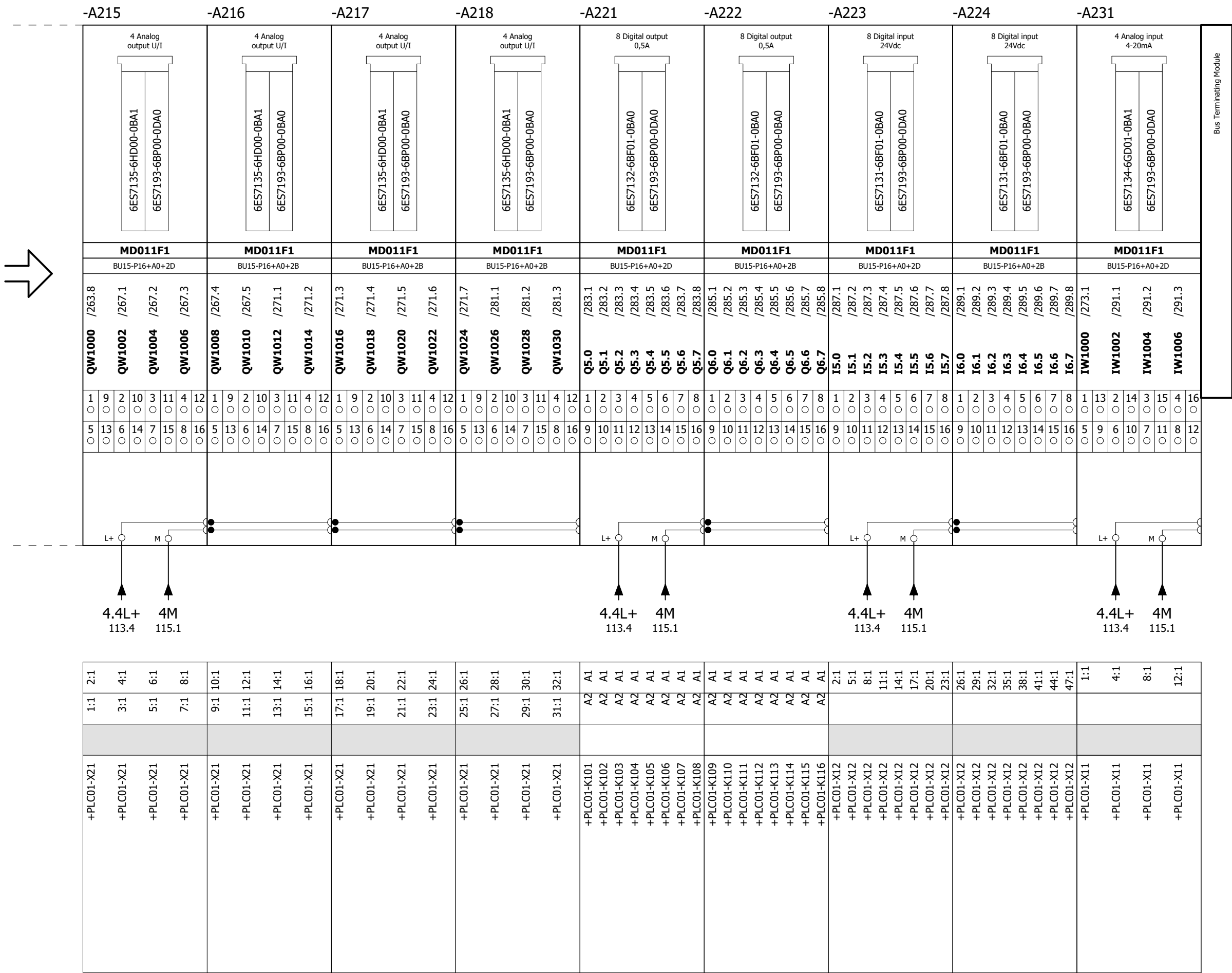




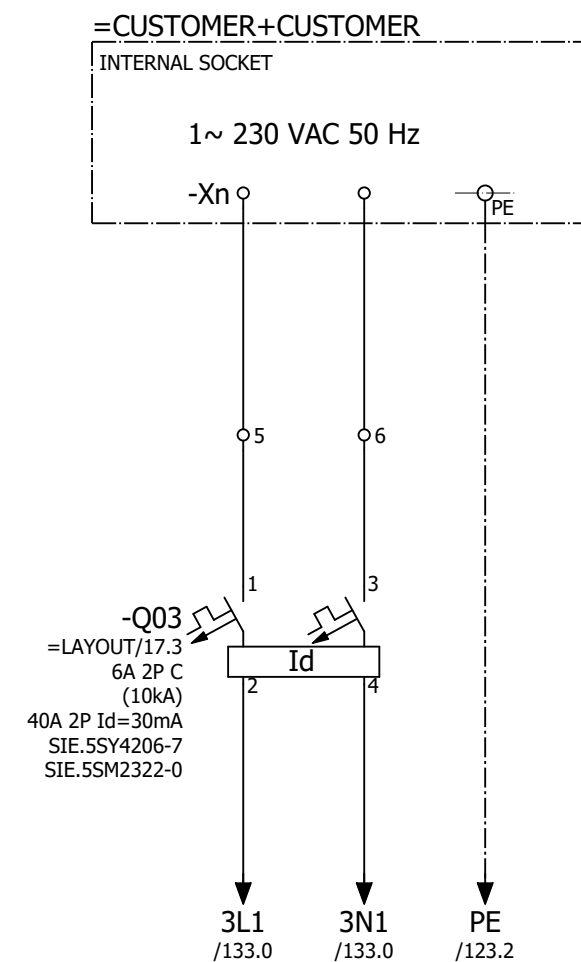
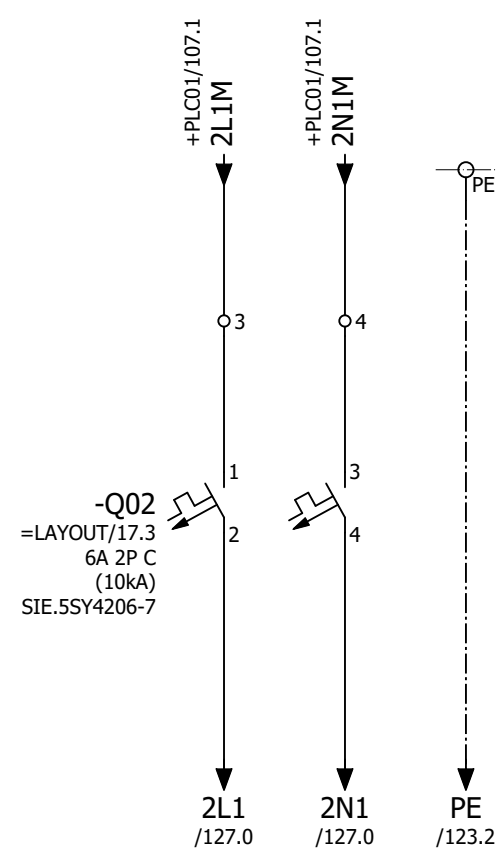
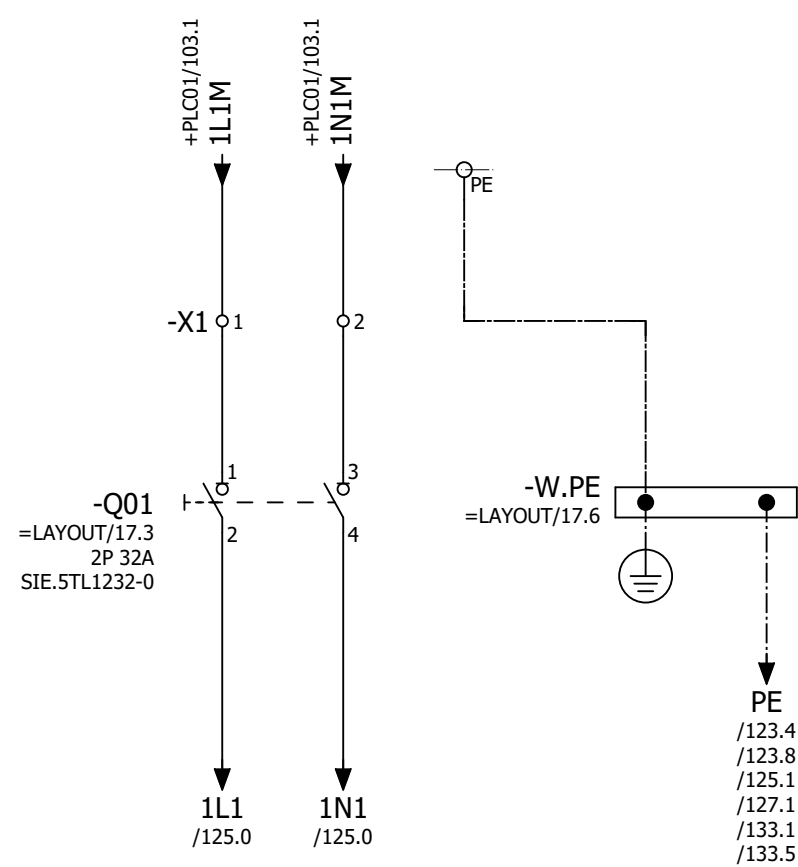




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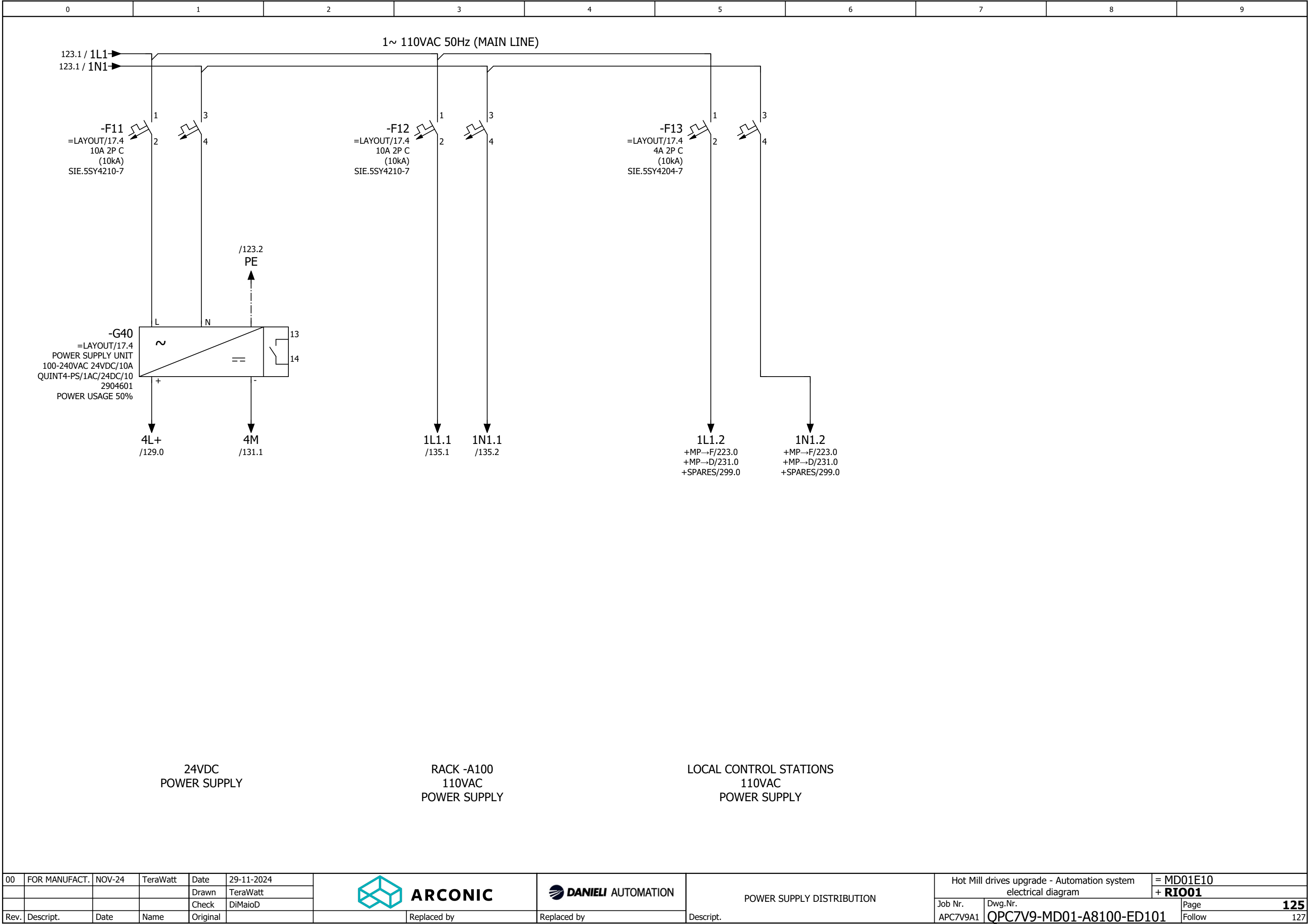
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				Drawn	TeraWatt				+ PLC01		
				Check	DiMaioD						
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.	Job Nr. APC7V9A1	Dwg.Nr. QPC7V9-MD01-A8100-ED101	Page Follow 121 +RIO01/123

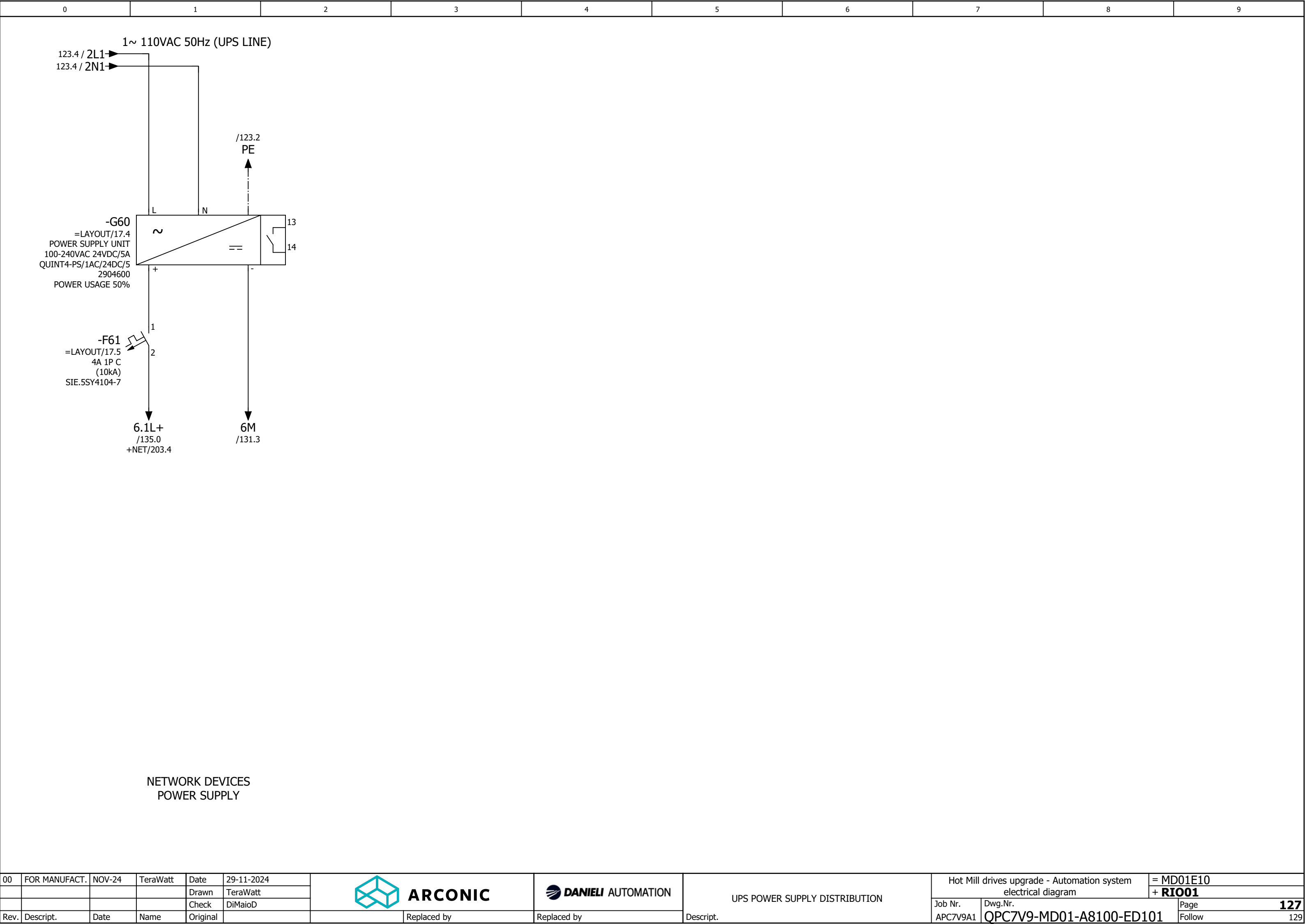


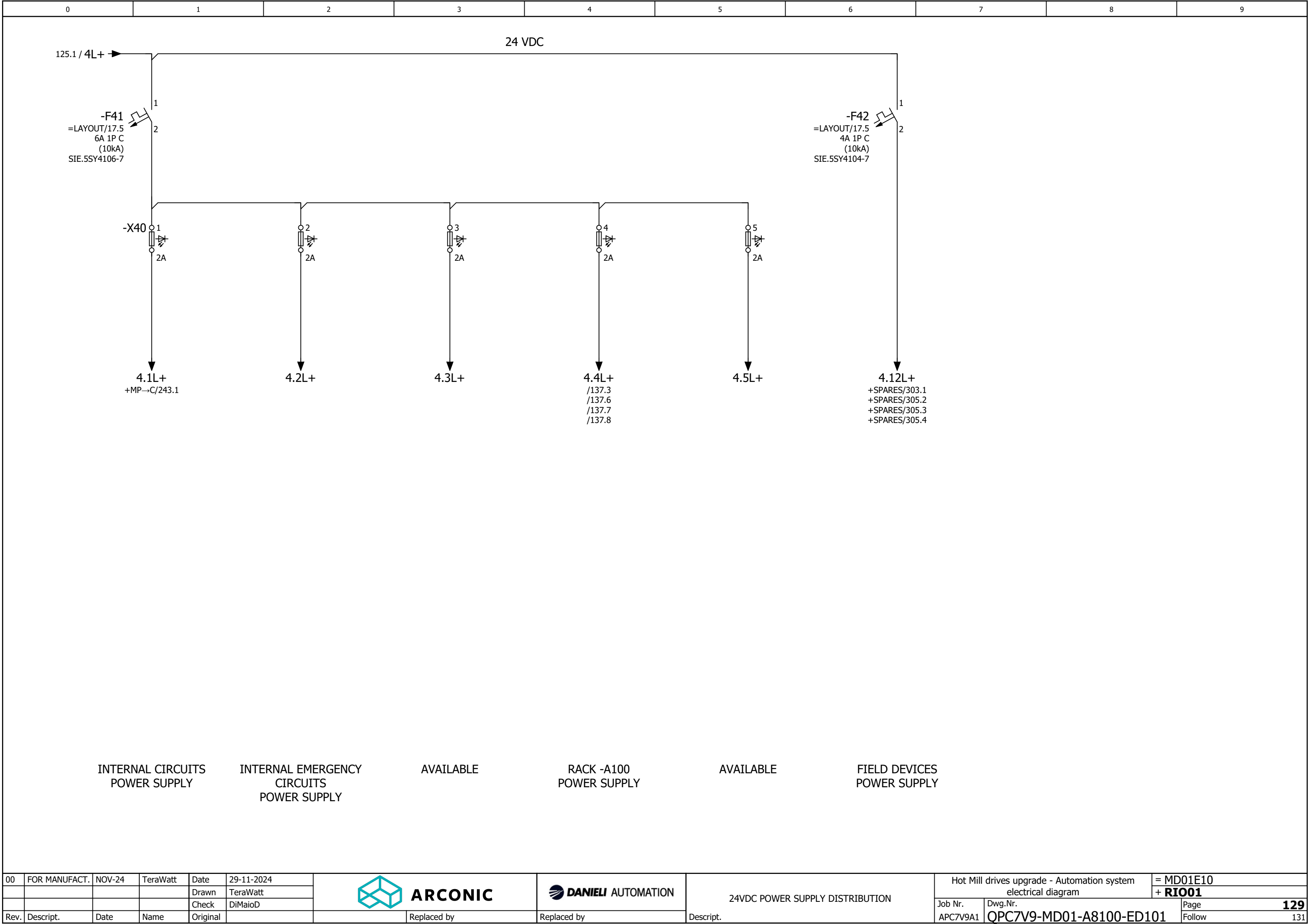
MAIN INCOMING
LINE

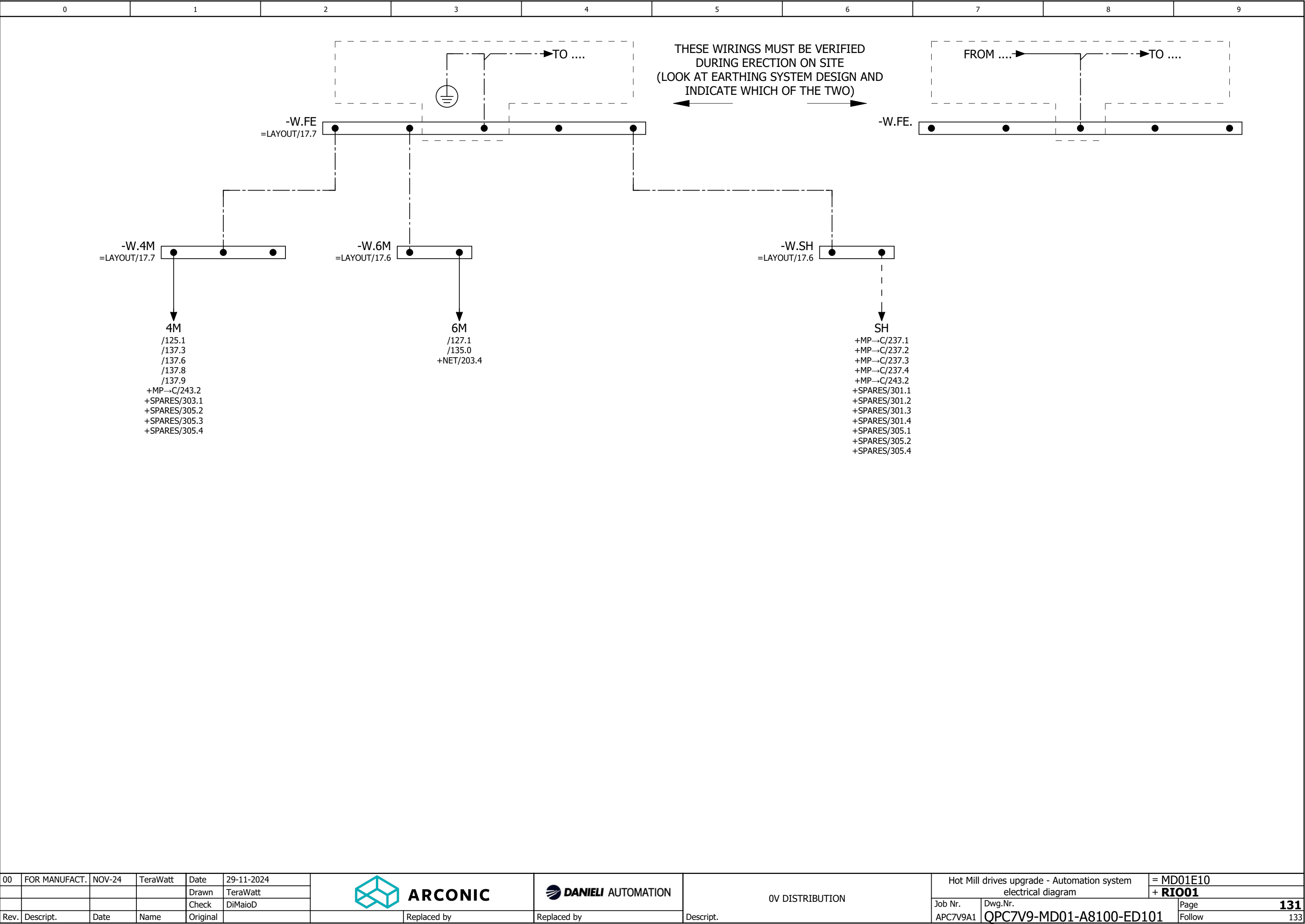
UPS INCOMING LINE

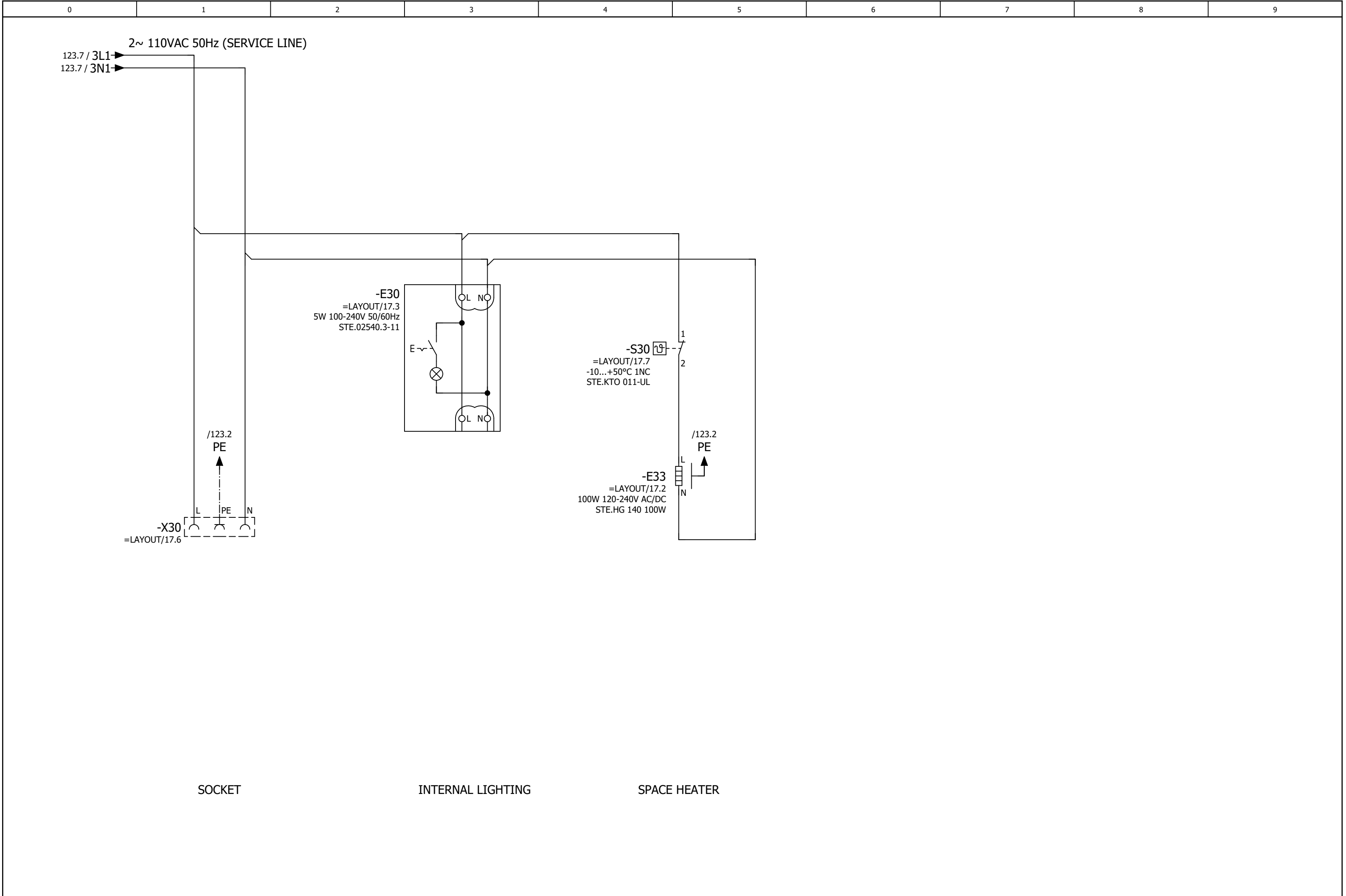
SERVICE INCOMING
LINE

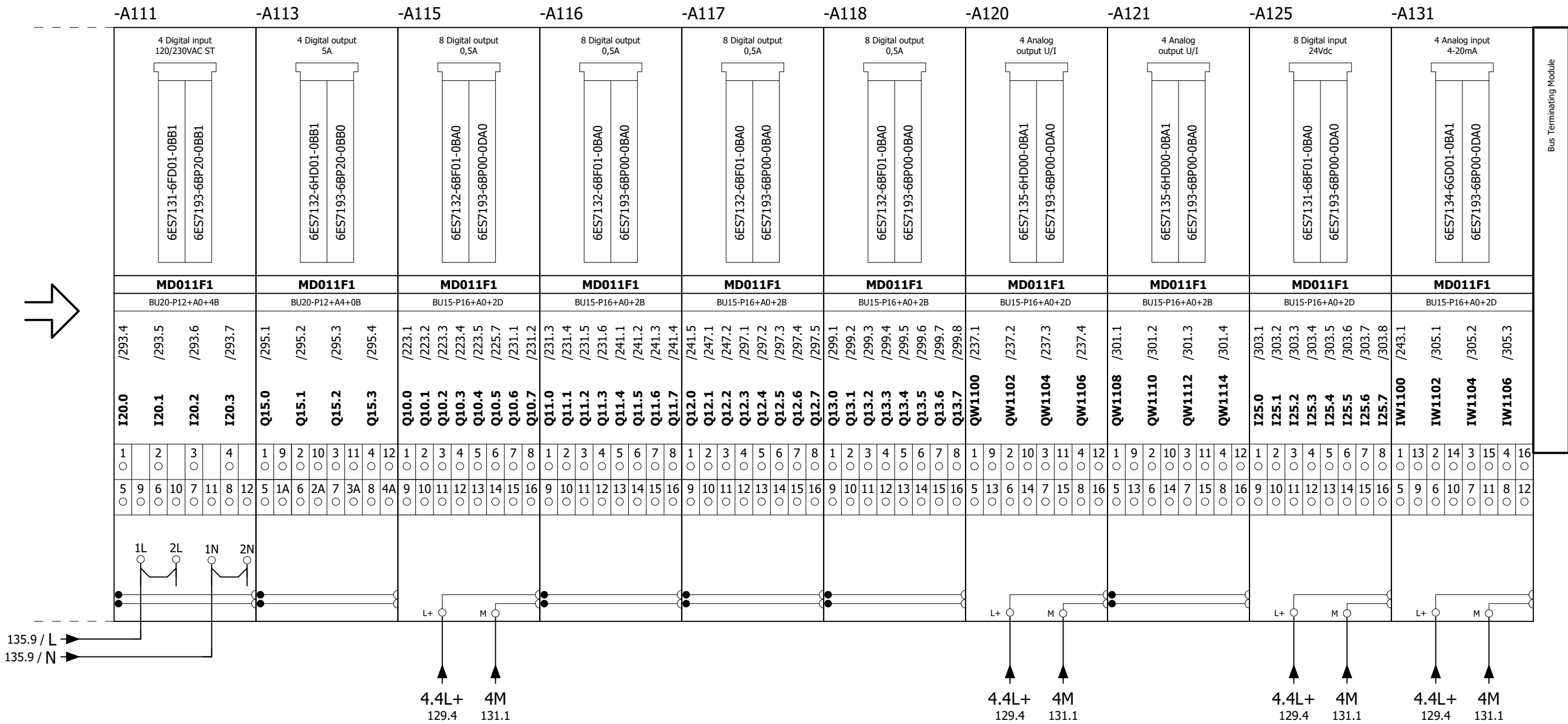


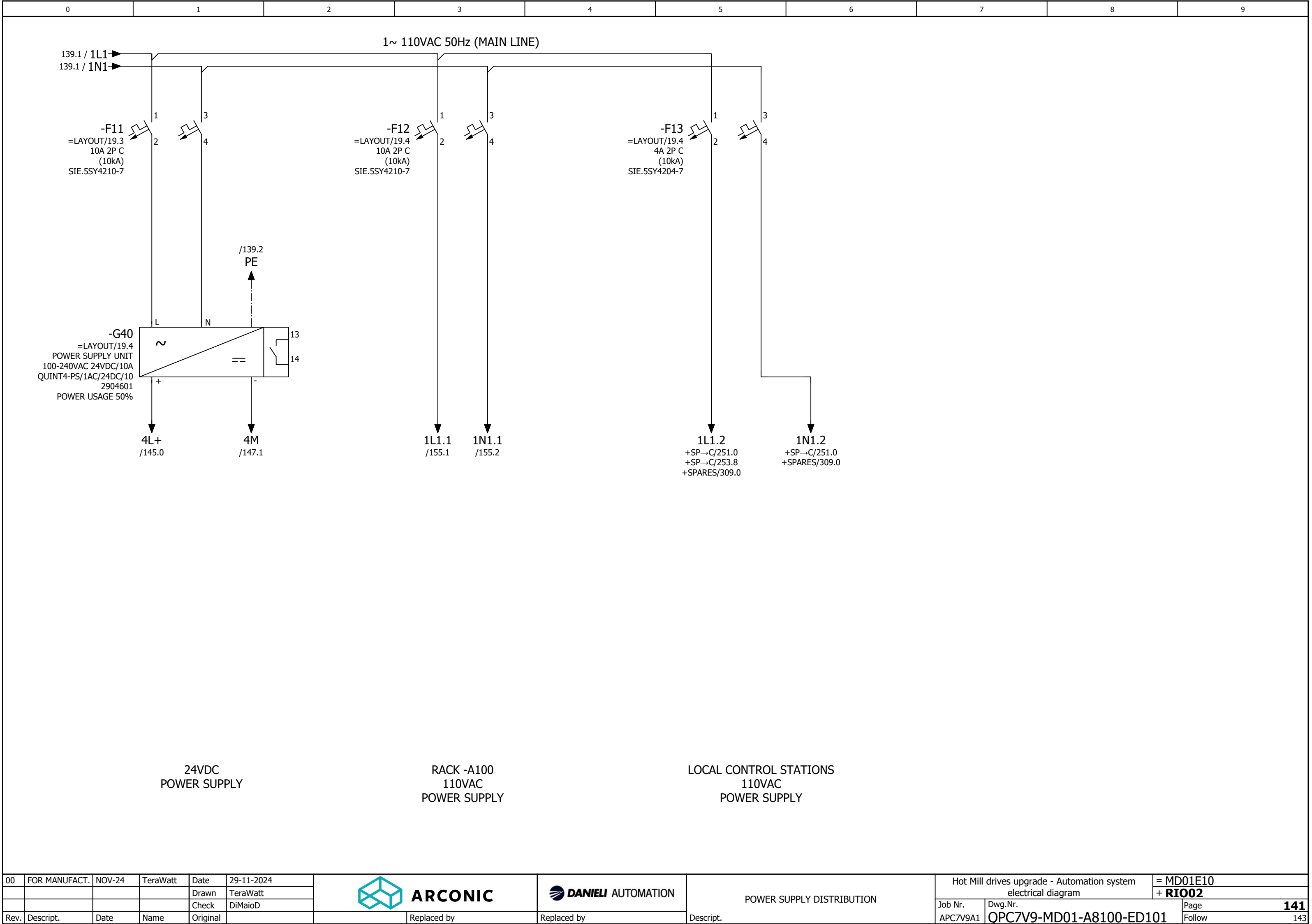


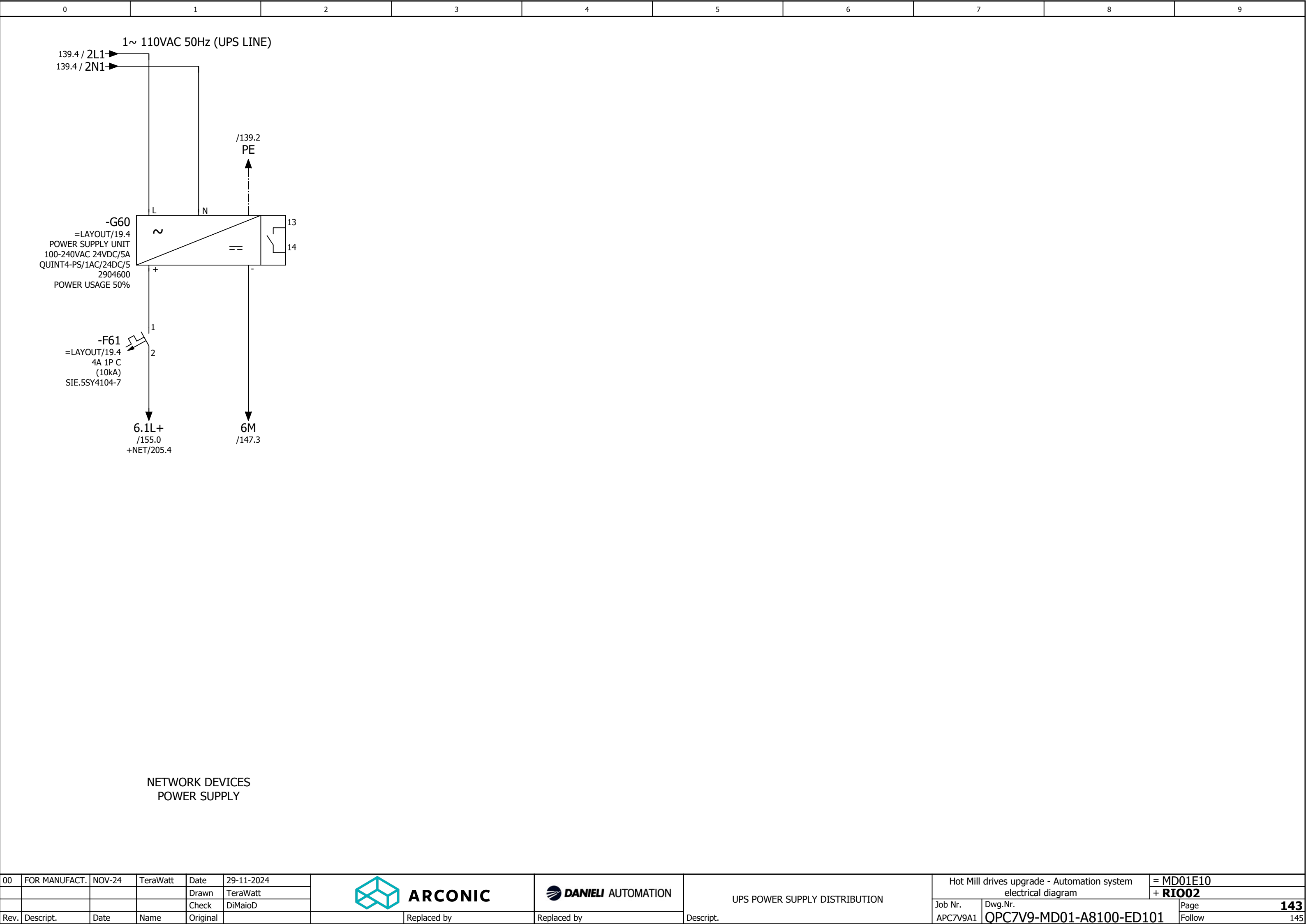


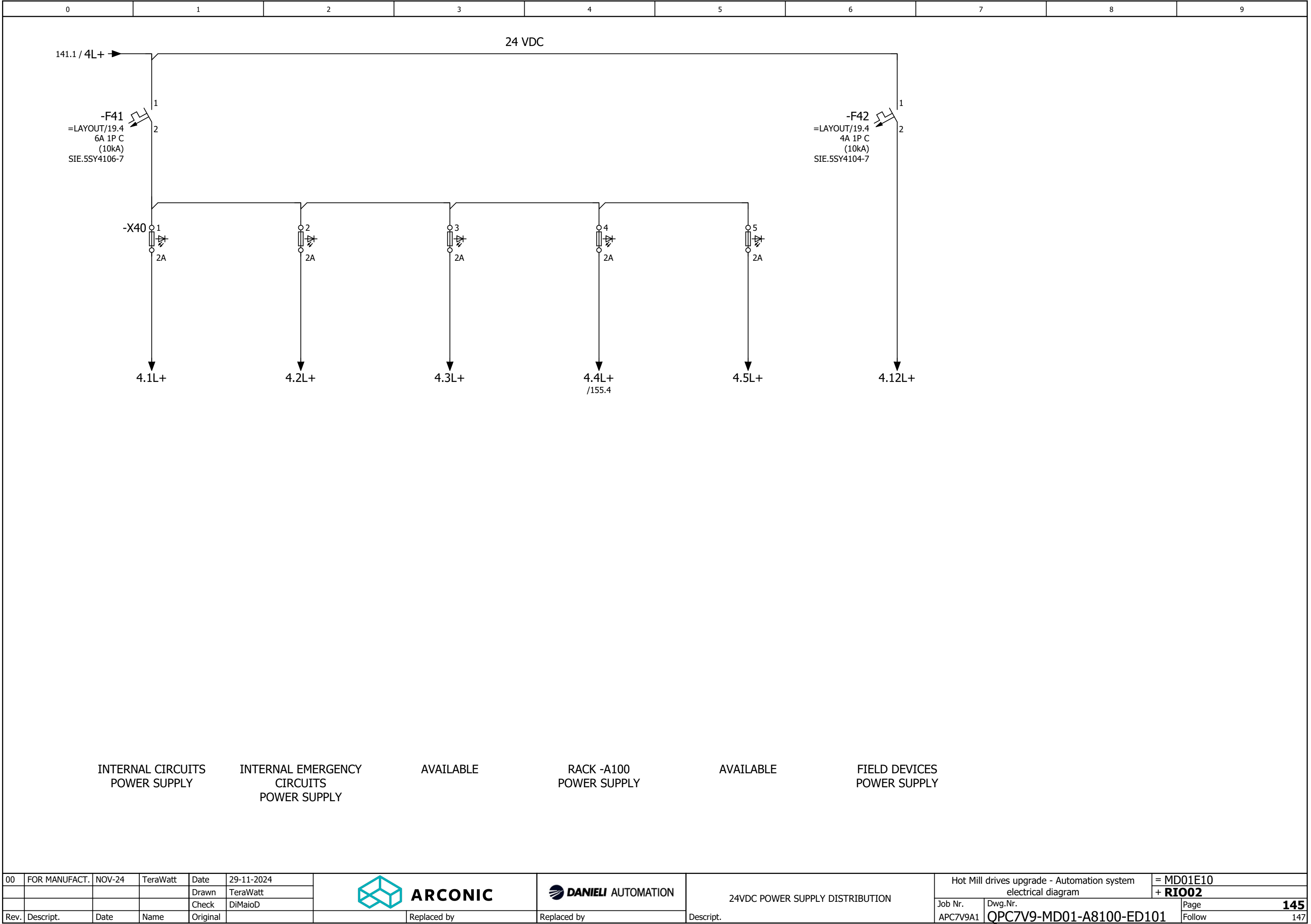


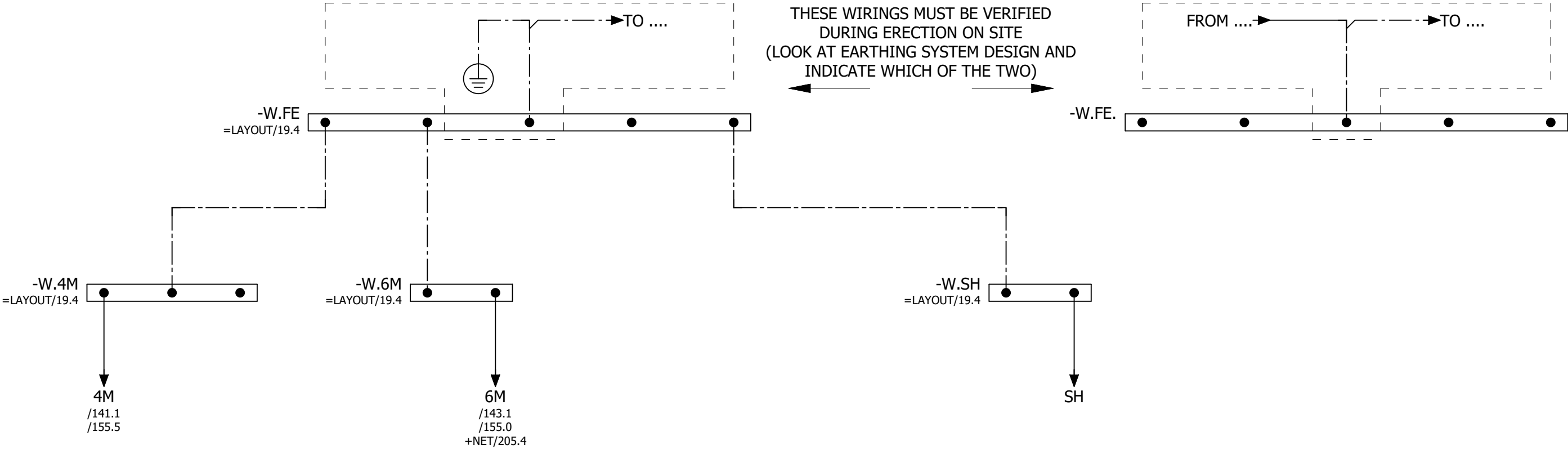


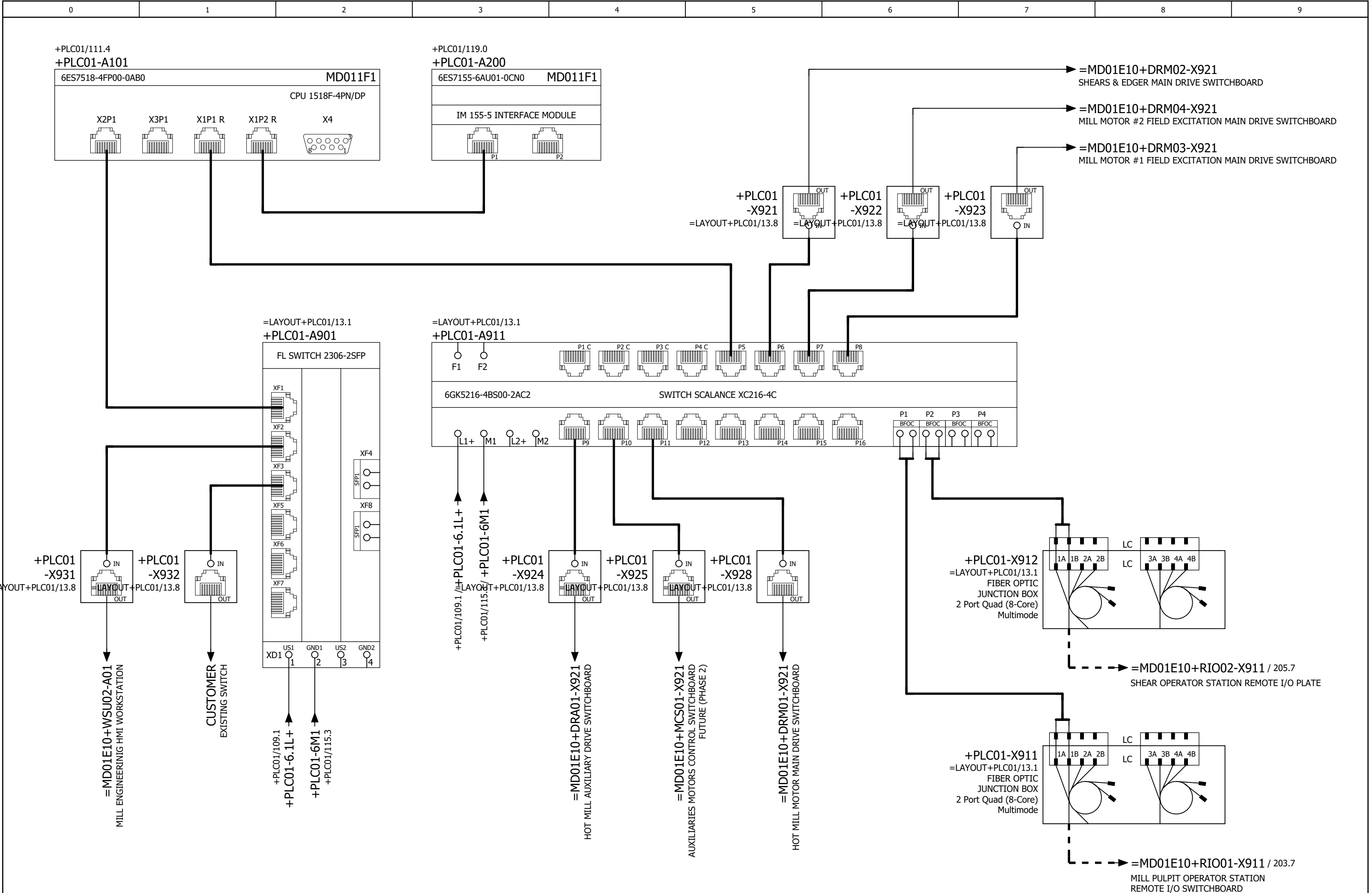






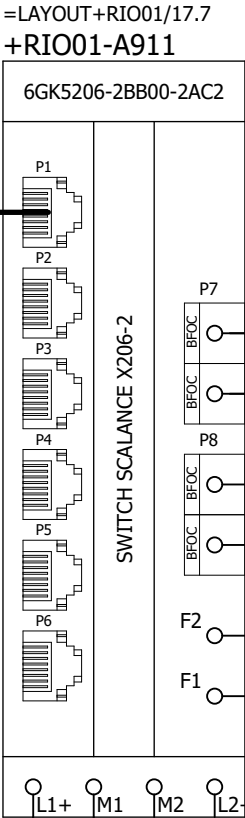
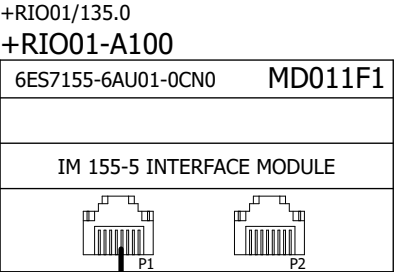






FOR DETAILS SEE DWG QPC7V9-MD01-A8000-ED043

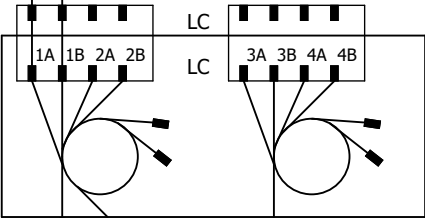
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				Drawn	TeraWatt						+ NET	
				Check	DiMaioD							
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	201
									APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	203



+RIO01/127.1 / +RIO01-6.1L+ ➔

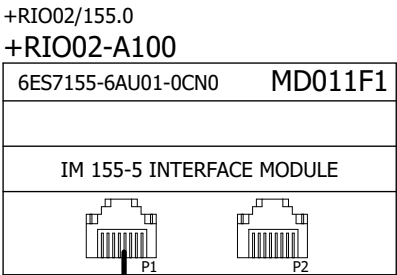
+RIO01/131.3 / +RIO01-6M ➔

+RIO01-X911
=LAYOUT+RIO01/17.7
FIBER OPTIC
JUNCTION BOX
2 Port Quad (8-Core)
Multimode

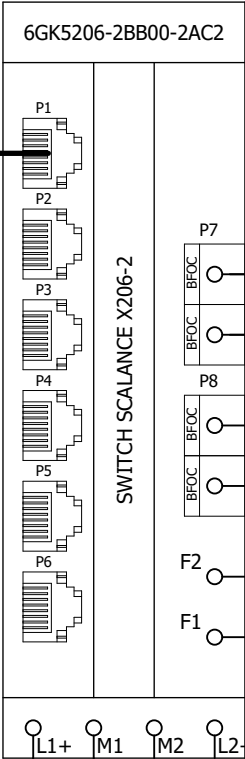


201.8 / =MD01E10+PLC01-X911 ➔ - - -
HOT MILL DRIVES UPGRADE PLC SWITCHBOARD

FOR DETAILS SEE DWG QPC7V9-MD01-A8000-ED043



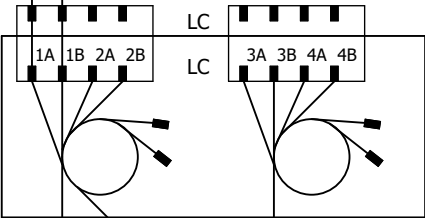
=LAYOUT+RIO02/19.6
+RIO02-A911



+RIO02/143.1 / +RIO02-6.1L+ ➔

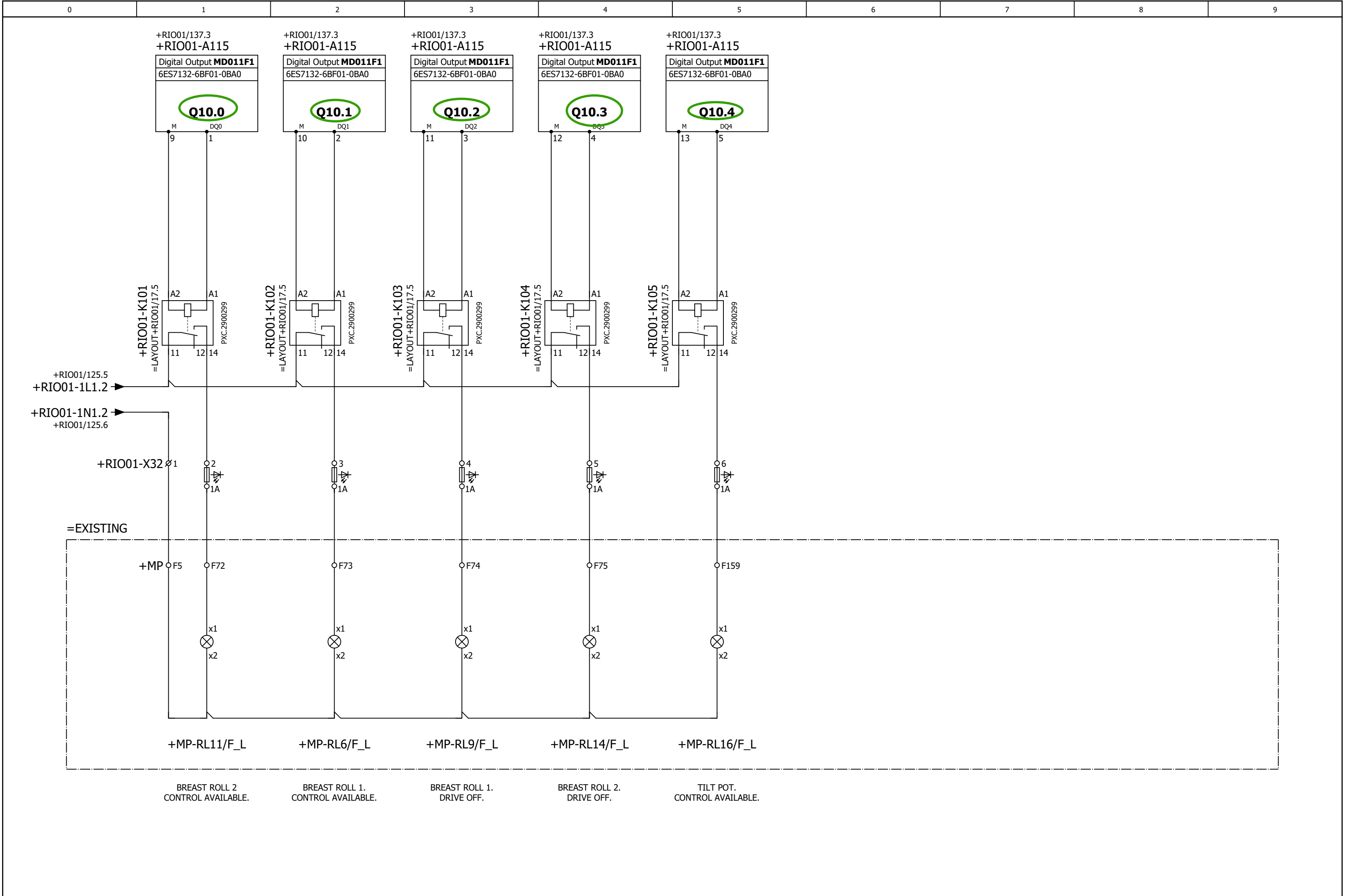
+RIO02/147.3 / +RIO02-6M ➔

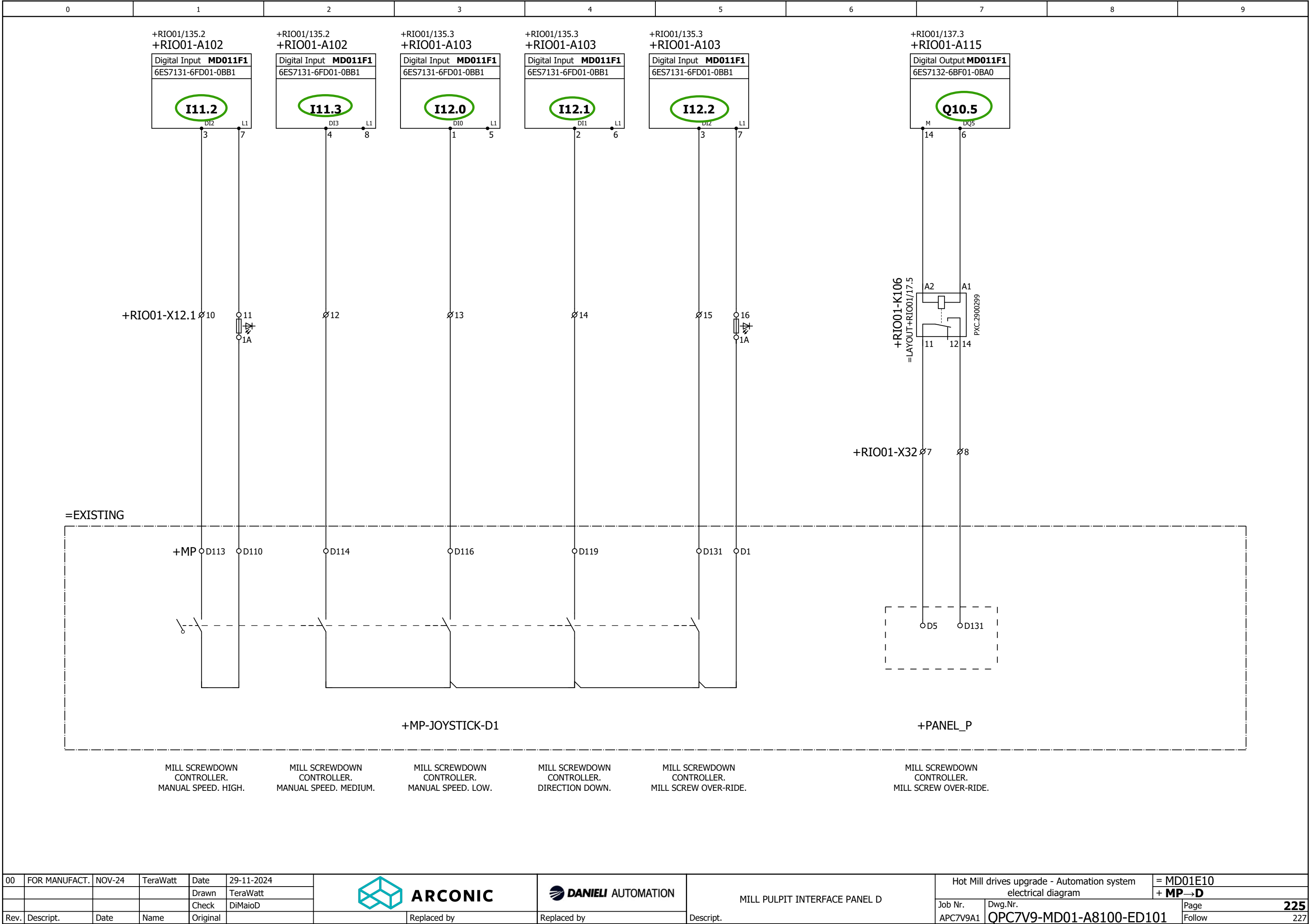
+RIO02-X911
=LAYOUT+RIO02/19.7
FIBER OPTIC
JUNCTION BOX
2 Port Quad (8-Core)
Multimode



201.8 / =MD01E10+PLC01-X911 ➔ - - -
HOT MILL DRIVES UPGRADE PLC SWITCHBOARD

FOR DETAILS SEE DWG QPC7V9-MD01-A8000-ED043



+RIO01/137.3
+RIO01-A115Digital Output **MD011F1**
6ES7132-6BF01-0BA0**Q10.5**M DQ5
14 6

+RIO01-X12.1

Ø10

11
1A

Ø12

Ø13

Ø14

Ø15

16
1A+RIO01-K106
=LAYOUT+RIO01/17.5A2 A1
11 12 14

PXC.2900299

+RIO01-X32

Ø7 Ø8

=EXISTING

+MP

D113 D110

D114

D116

D119

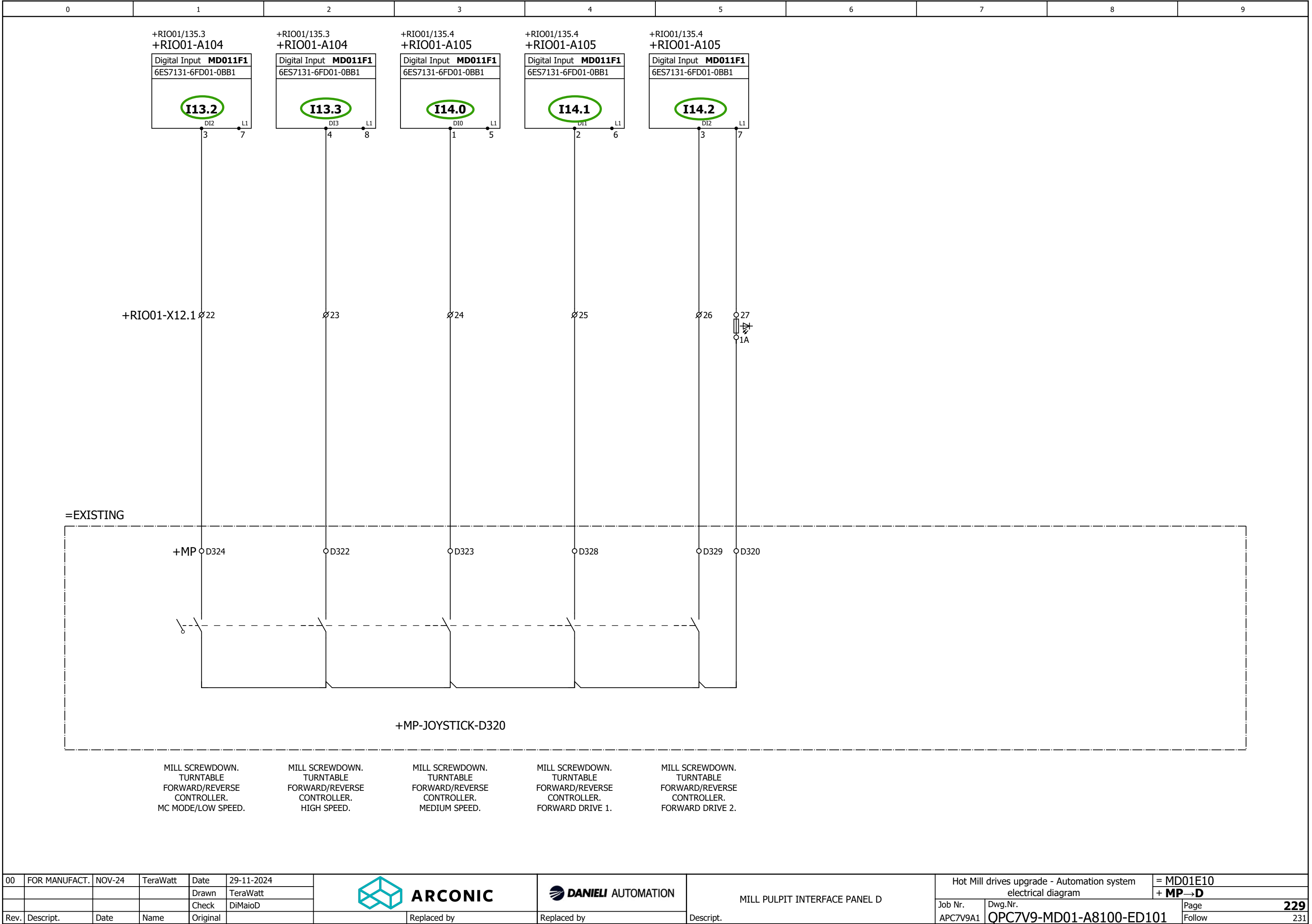
D131 D1

+MP-JOYSTICK-D1

+PANEL_P

D5 D131

MILL SCREWDOWN
CONTROLLER.
MANUAL SPEED. HIGH.MILL SCREWDOWN
CONTROLLER.
MANUAL SPEED. MEDIUM.MILL SCREWDOWN
CONTROLLER.
MANUAL SPEED. LOW.MILL SCREWDOWN
CONTROLLER.
DIRECTION DOWN.MILL SCREWDOWN
CONTROLLER.
MILL SCREW OVER-RIDE.MILL SCREWDOWN
CONTROLLER.
MILL SCREW OVER-RIDE.



+RIO01-X12.1 Ø22

Ø23

Ø24

Ø25

Ø26

Ø27
1A

=EXISTING

+MP D324 D322 D323 D328 D329 D320

+MP-JOYSTICK-D320

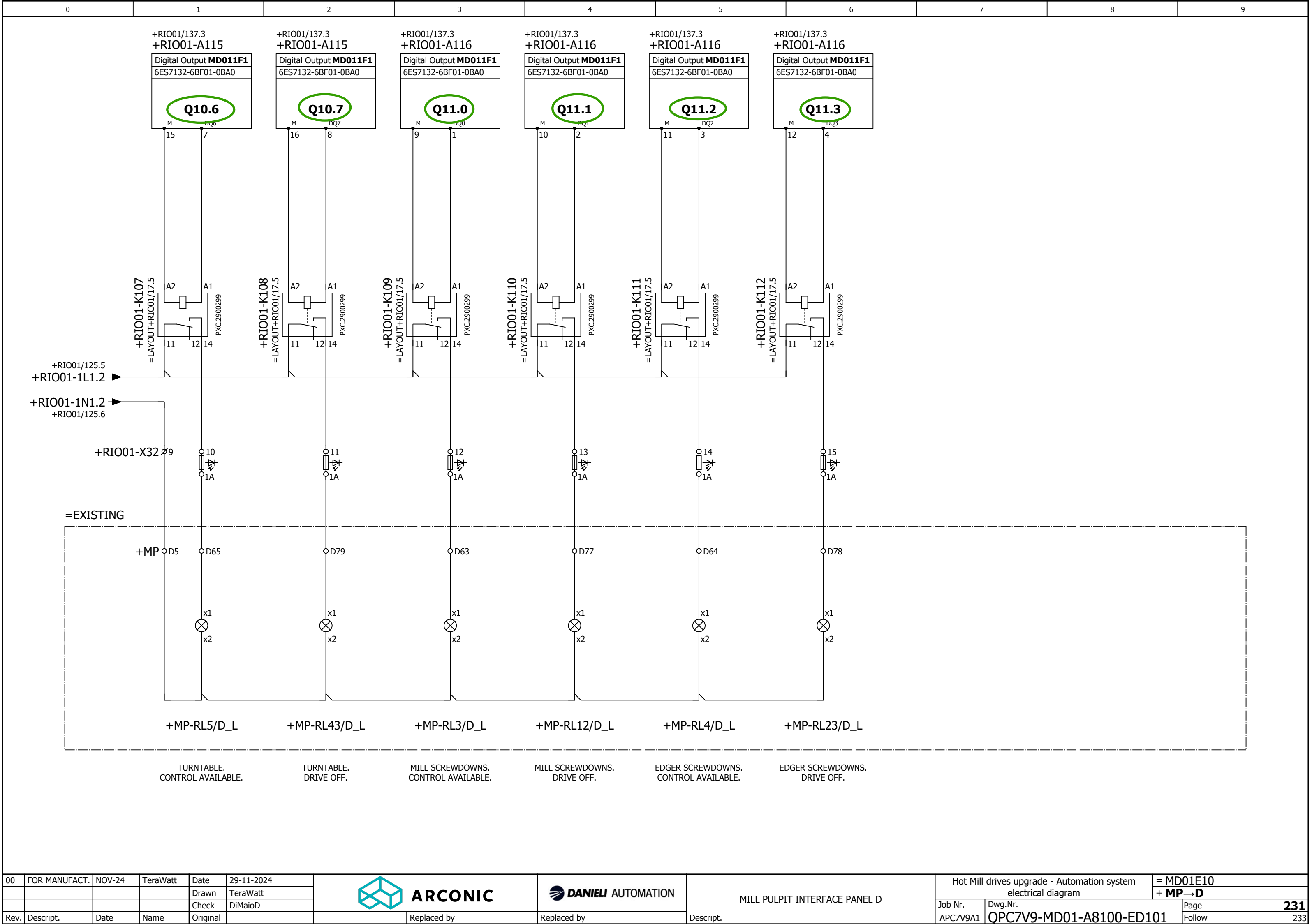
MILL SCREWDOWN.
TURNTABLE
FORWARD/REVERSE
CONTROLLER.
MC MODE/LOW SPEED.

MILL SCREWDOWN.
TURNTABLE
FORWARD/REVERSE
CONTROLLER.
HIGH SPEED.

MILL SCREWDOWN.
TURNTABLE
FORWARD/REVERSE
CONTROLLER.
MEDIUM SPEED.

MILL SCREWDOWN.
TURNTABLE
FORWARD/REVERSE
CONTROLLER.
FORWARD DRIVE 1.

MILL SCREWDOWN.
TURNTABLE
FORWARD/REVERSE
CONTROLLER.
FORWARD DRIVE 2.



+RIO01/137.3
+RIO01-A116

Digital Output **MD011F1**
6ES7132-6BF01-0BA0

Q11.3

M12

DQ34

+RIO01-K107
=LAYOUT+RIO01/17.5

A2A1

111214

PXC.2900299

+RIO01-K108
=LAYOUT+RIO01/17.5

A2A1

111214

PXC.2900299

+RIO01-K109
=LAYOUT+RIO01/17.5

A2A1

111214

PXC.2900299

+RIO01-K110
=LAYOUT+RIO01/17.5

A2A1

111214

PXC.2900299

+RIO01-K111
=LAYOUT+RIO01/17.5

A2A1

111214

PXC.2900299

+RIO01-K112
=LAYOUT+RIO01/17.5

A2A1

111214

PXC.2900299

+RIO01/125.5
+RIO01-1L1.2

+RIO01-1N1.2
+RIO01/125.6

+RIO01-X32 Ø9

101A

111A

121A

131A

141A

151A

+MP D5

+MP D65

+MP D79

+MP D63

+MP D77

+MP D64

+MP D78

x1x2

x1x2

x1x2

x1x2

x1x2

x1x2

+MP-RL5/D_L

+MP-RL43/D_L

+MP-RL3/D_L

+MP-RL12/D_L

+MP-RL4/D_L

+MP-RL23/D_L

TURNTABLE.
CONTROL AVAILABLE.

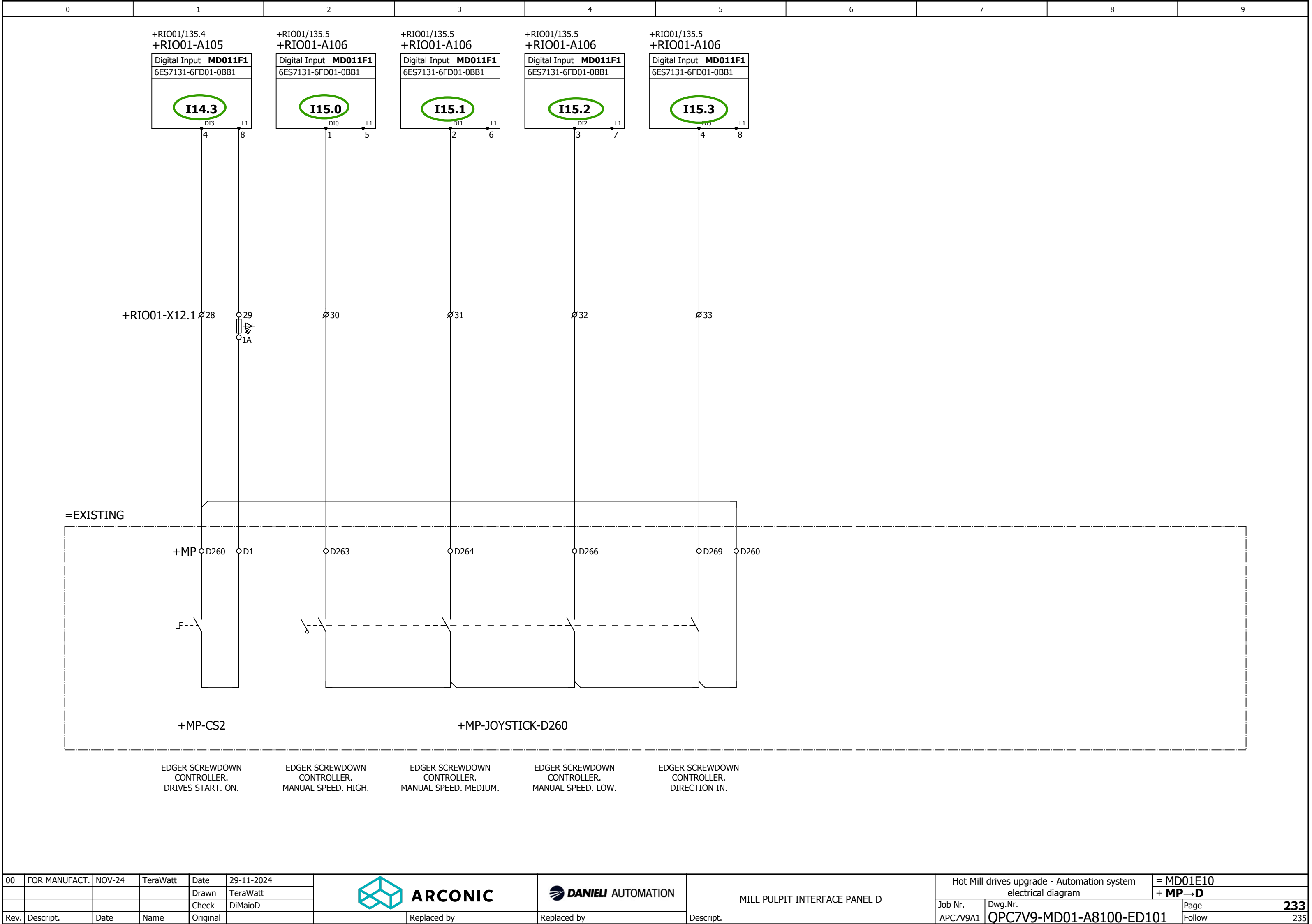
TURNTABLE.
DRIVE OFF.

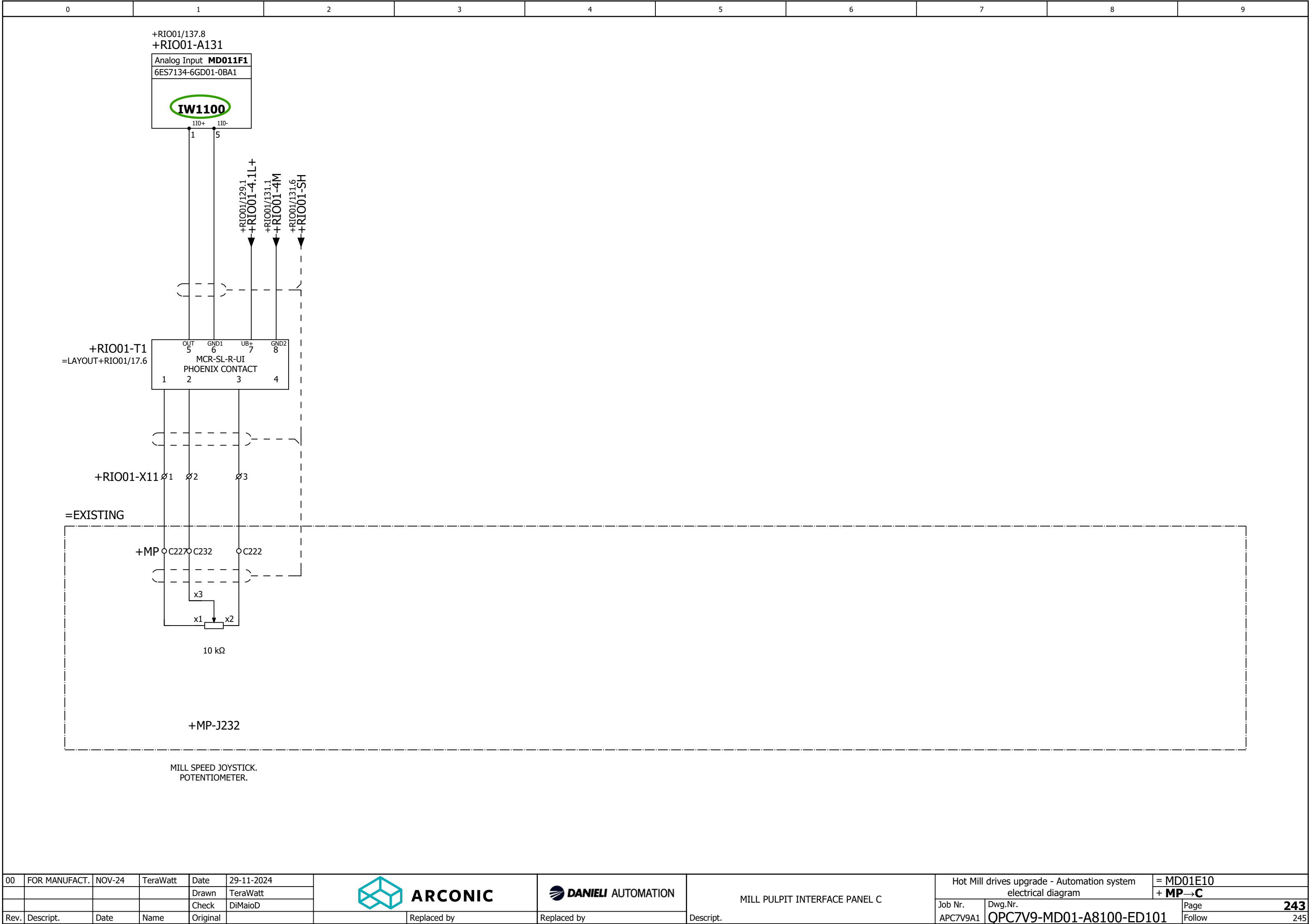
MILL SCREWDOWN.
CONTROL AVAILABLE.

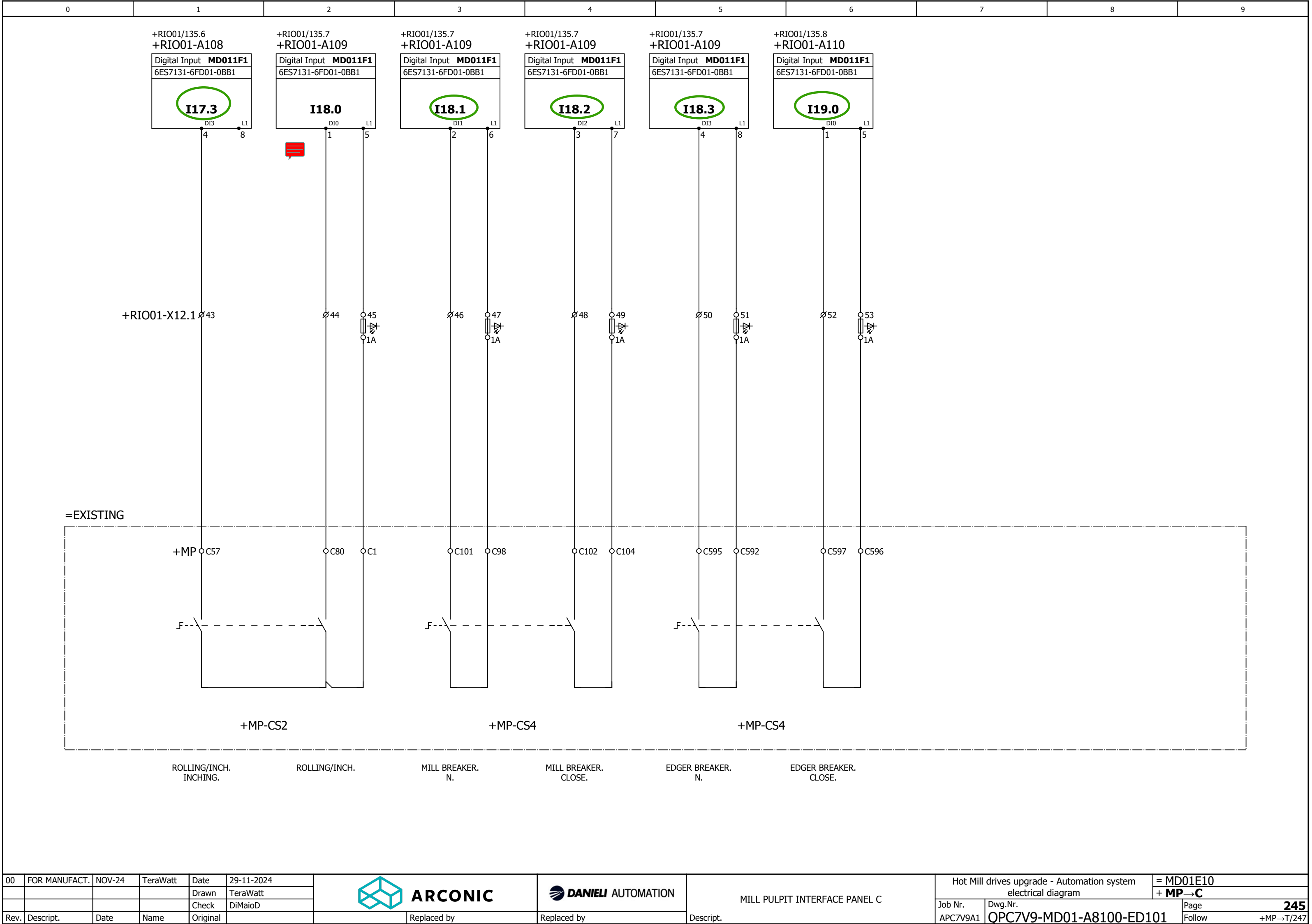
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DRIVE OFF.

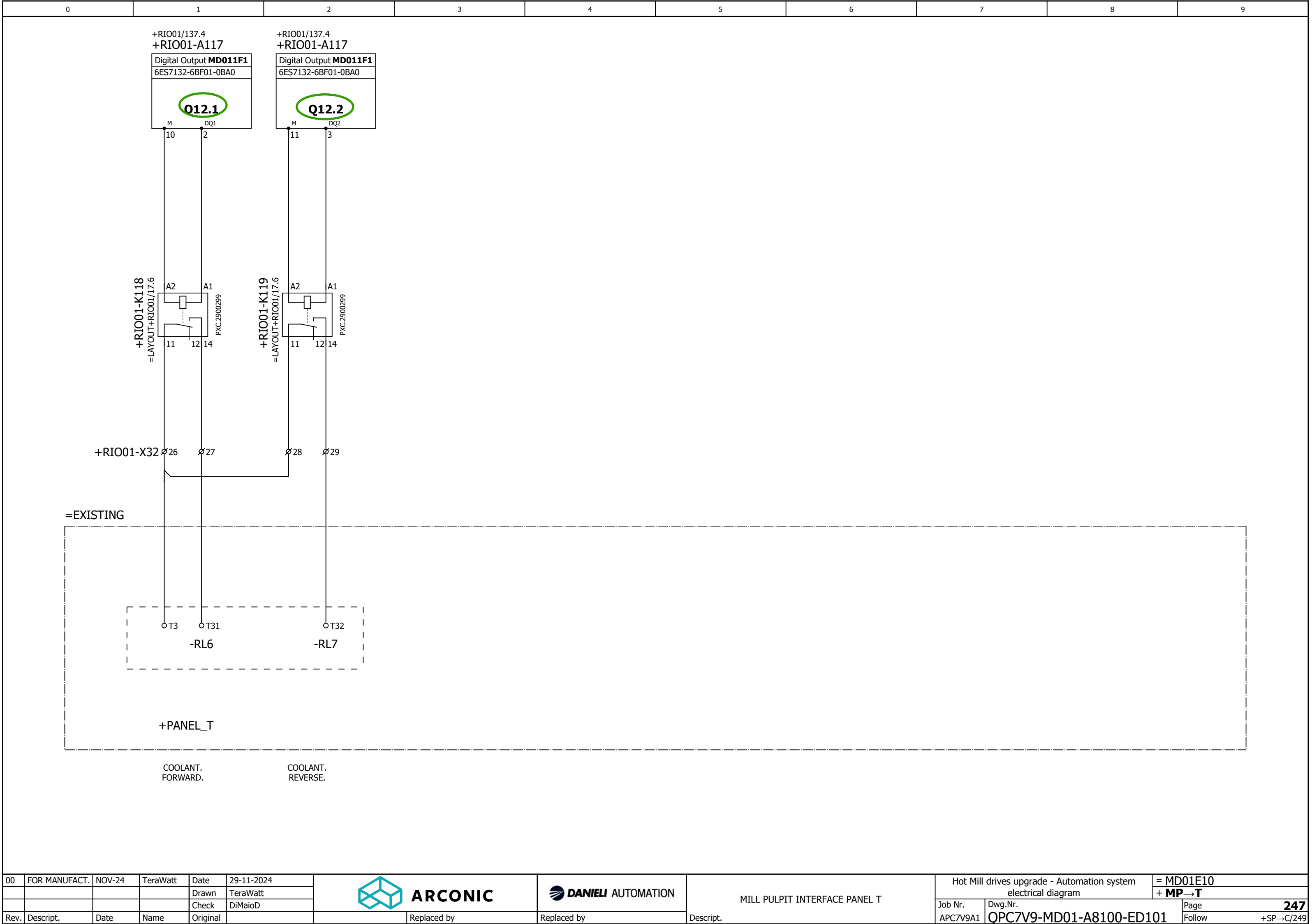
EDGER SCREWDOWN.
CONTROL AVAILABLE.

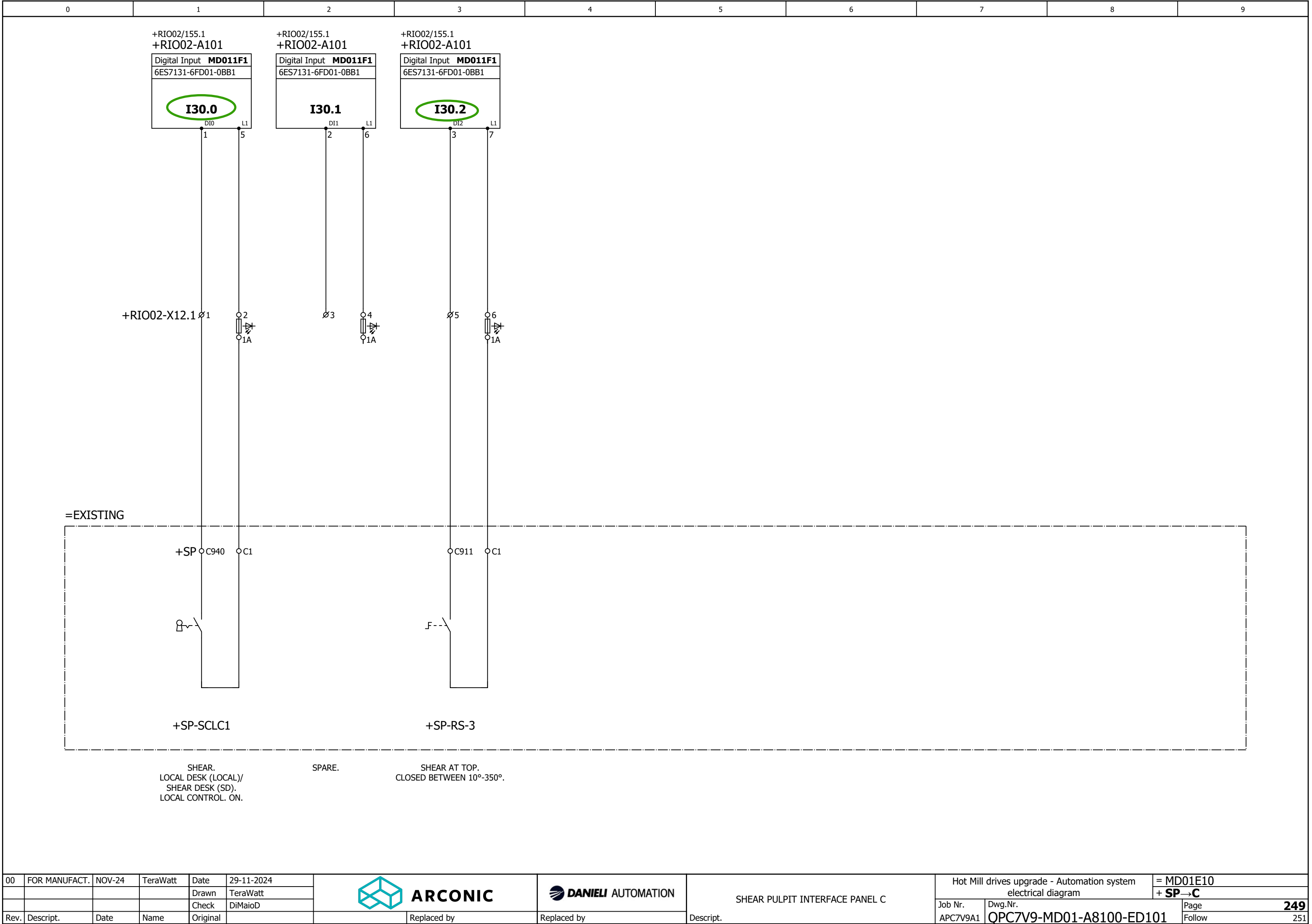
EDGER SCREWDOWN.
DRIVE OFF.

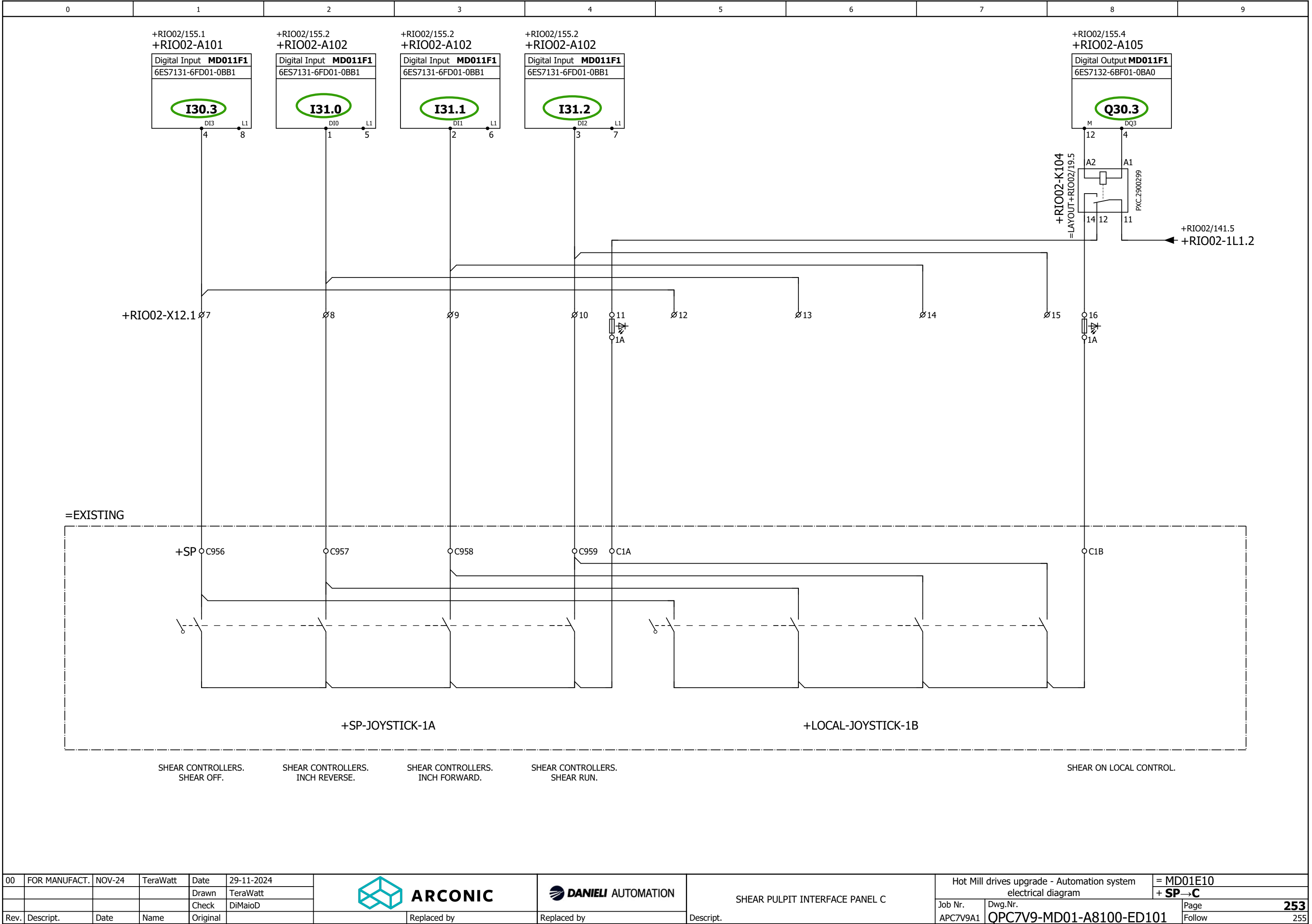


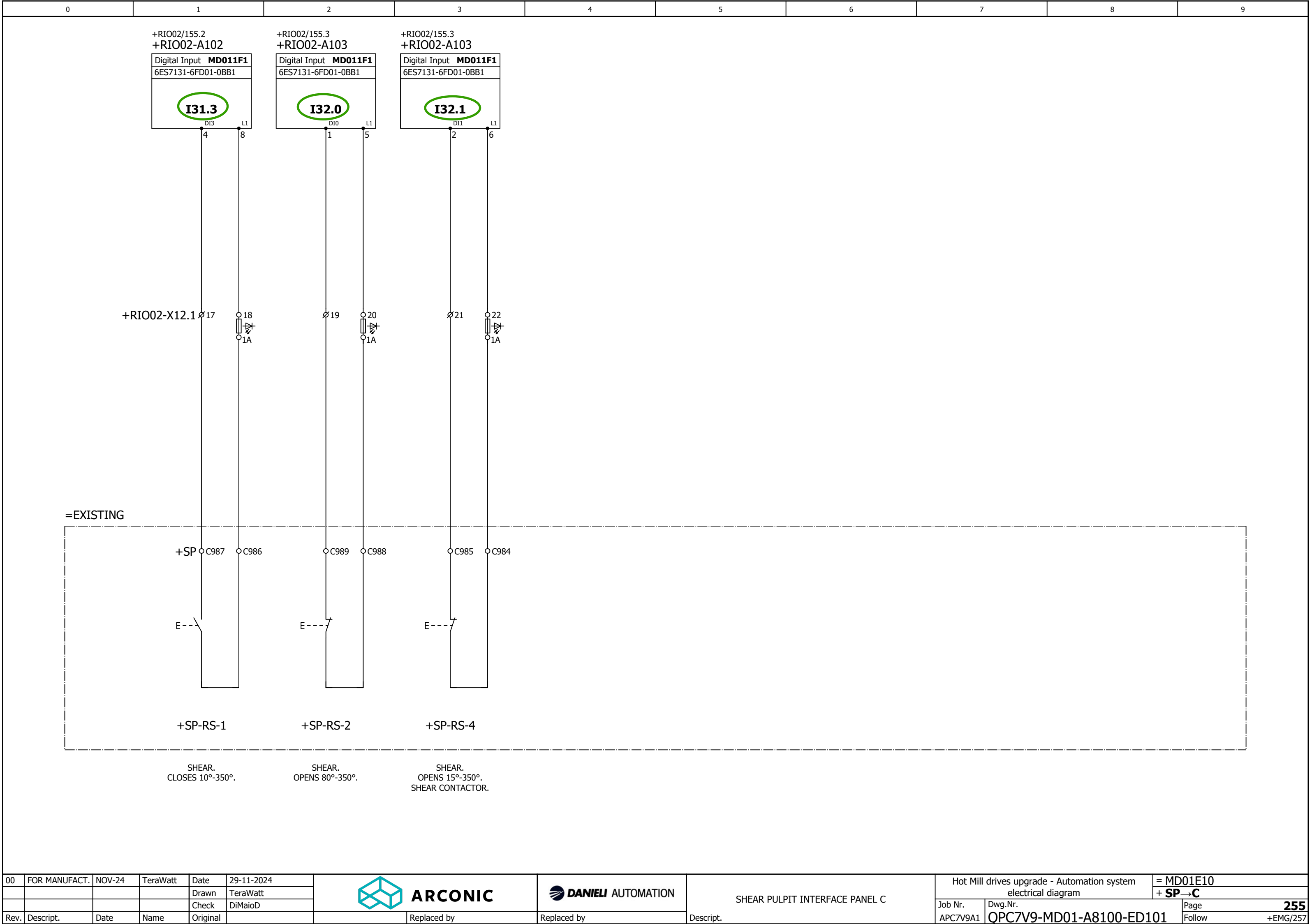


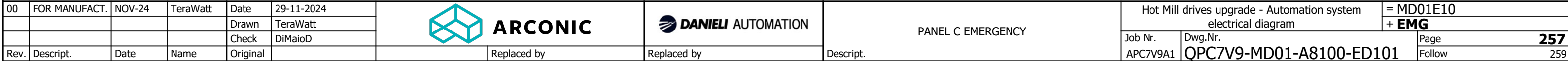


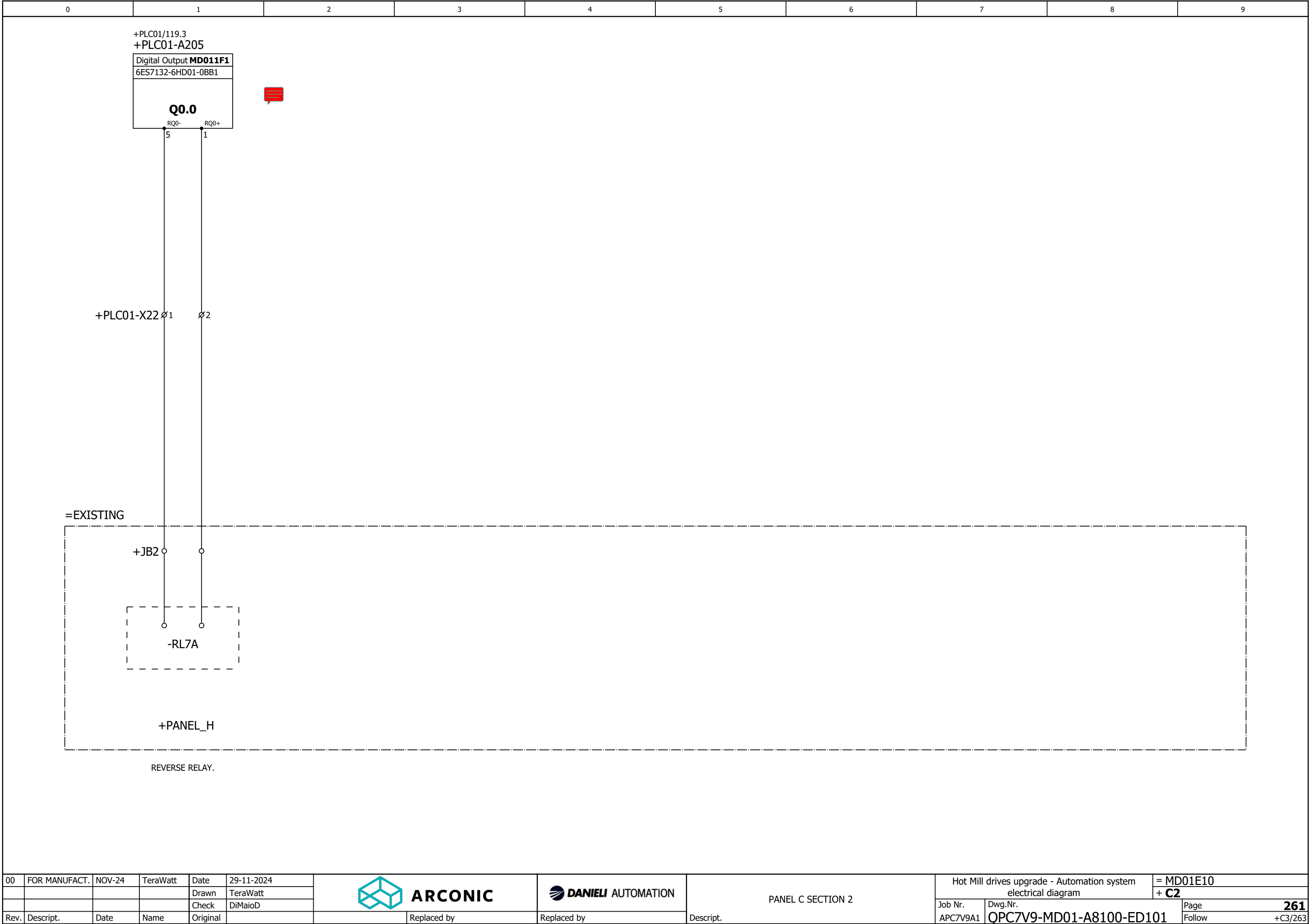


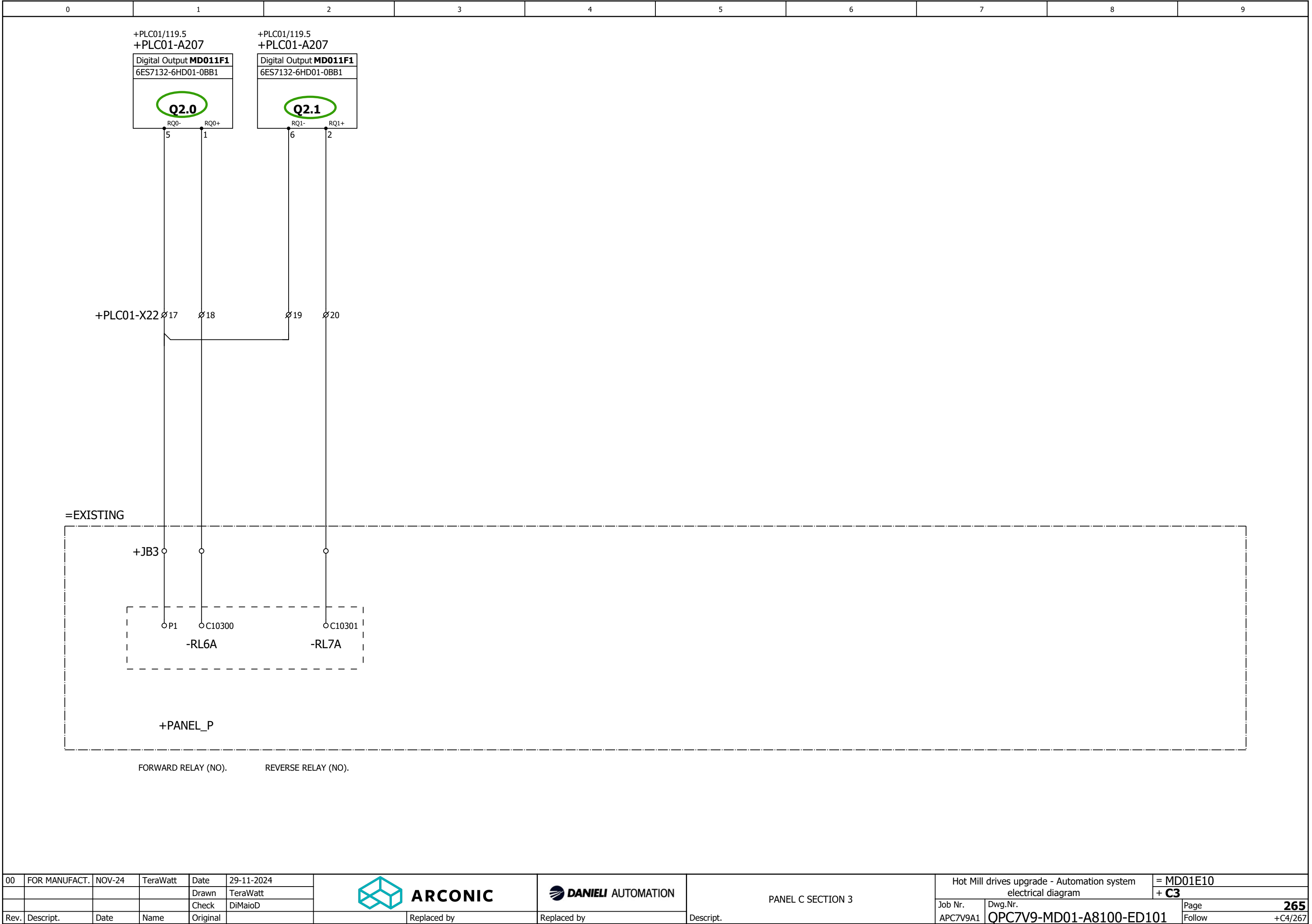


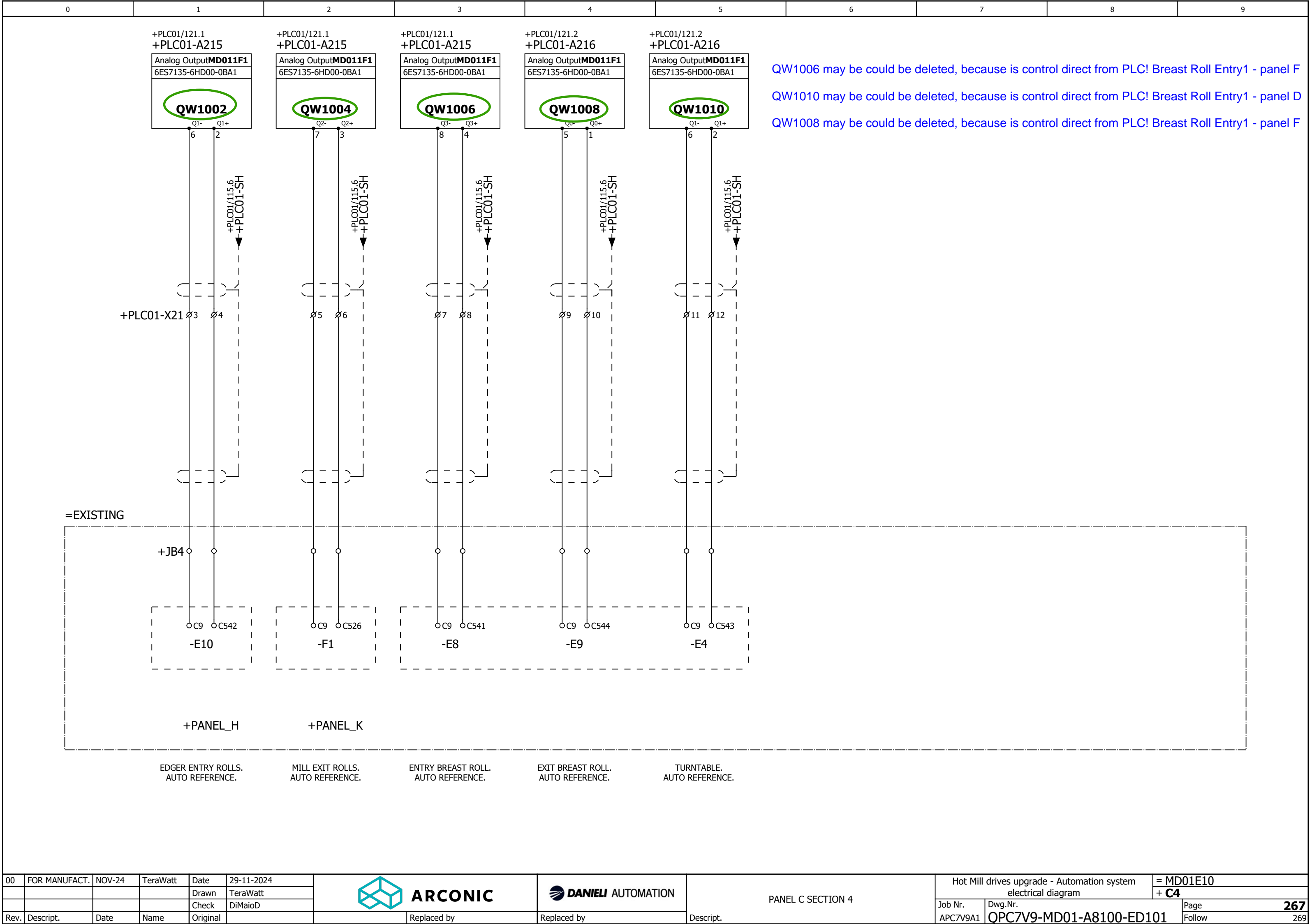


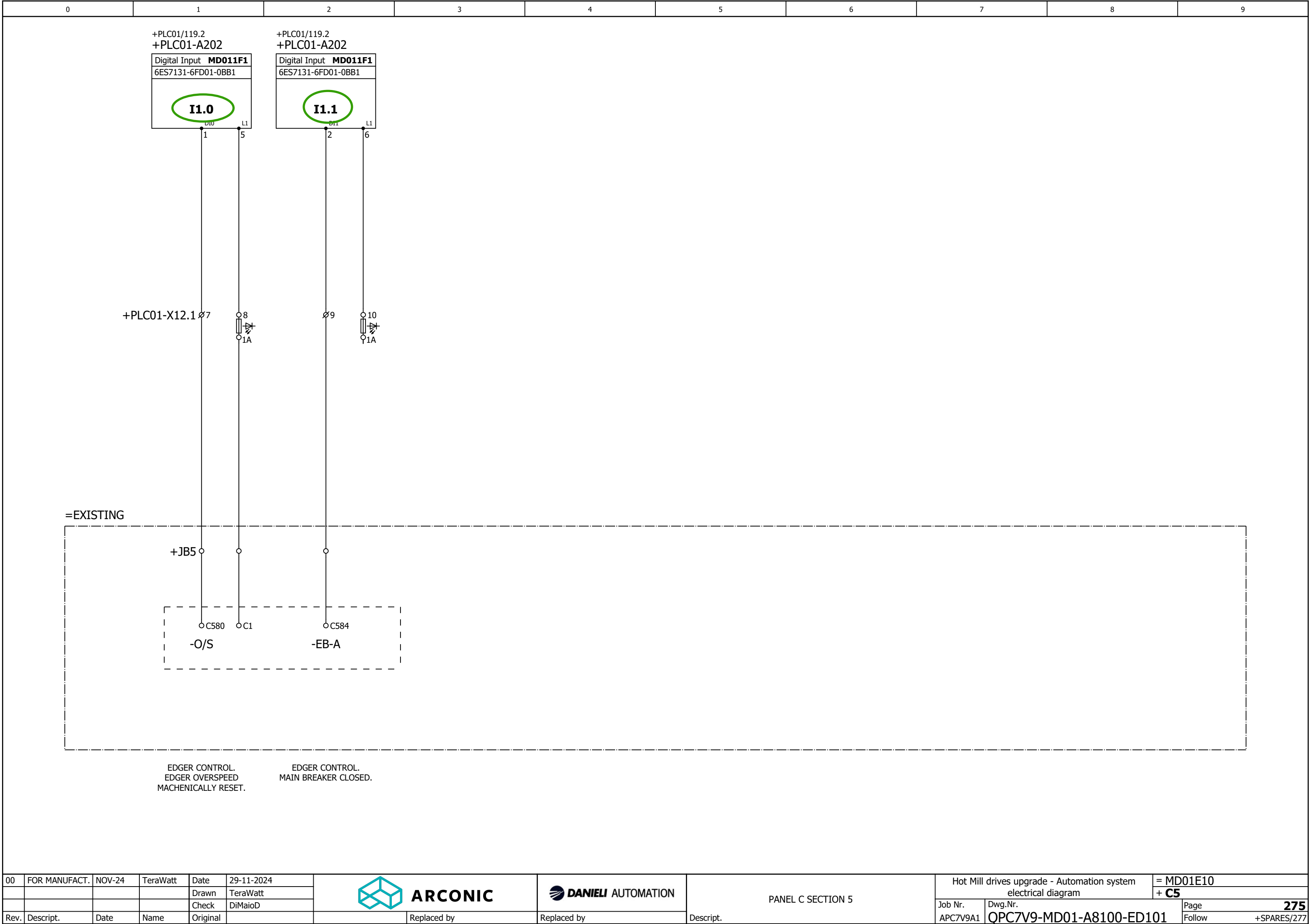


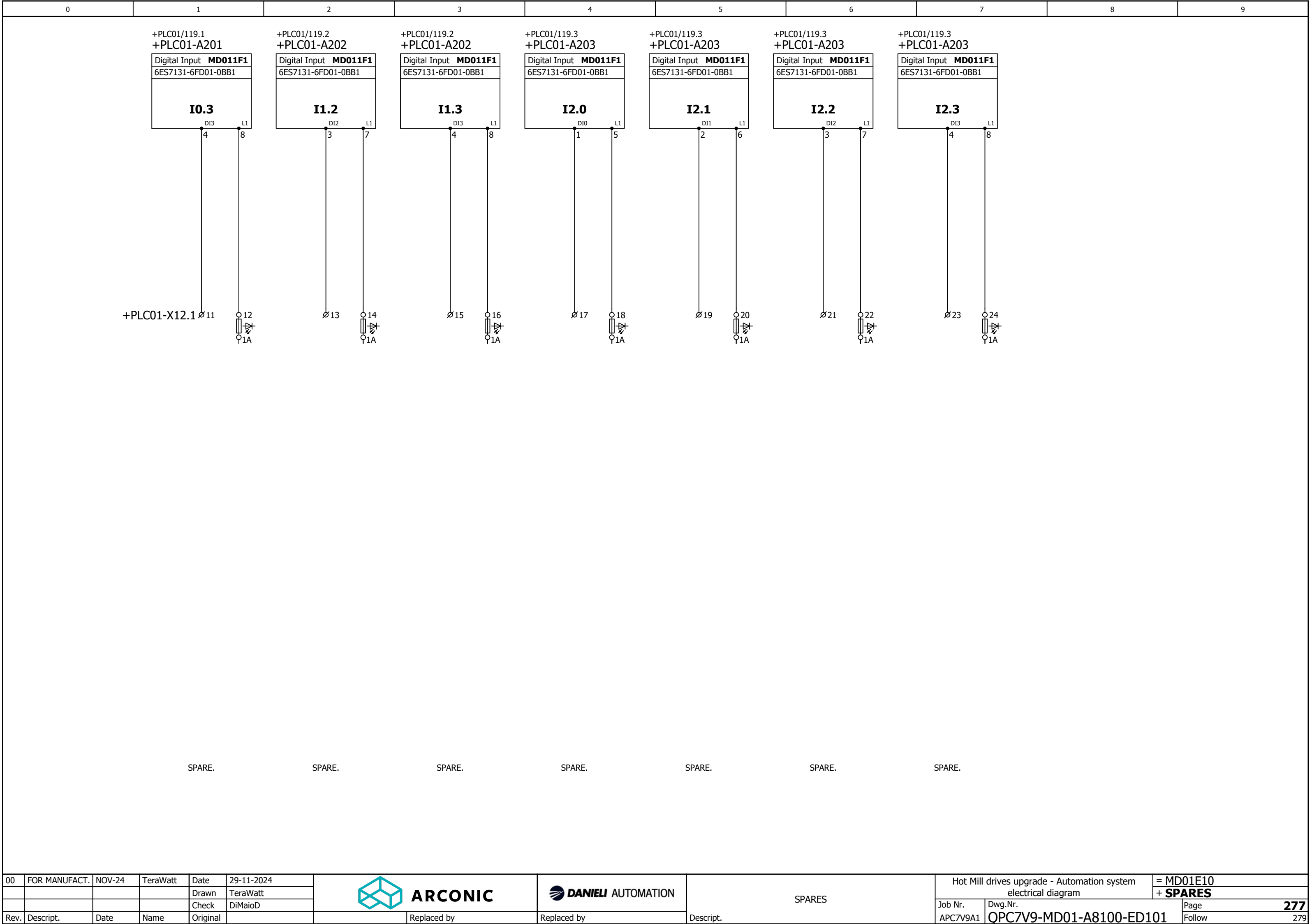












+PLC01/119.3

+PLC01-A203

Digital Input **MD011F1**

6ES7131-6FD01-0BB1

I2.0

DI0

1

L1

5

DI0

1

17

L1

5

18

18

1A

Ø17

+PLC01/119.3

+PLC01-A203

Digital Input **MD011F1**

6ES7131-6FD01-0BB1

I2.1

DI1

2

L1

6

DI1

2

19

L1

6

20

20

1A

Ø19

+PLC01/119.3

+PLC01-A203

Digital Input **MD011F1**

6ES7131-6FD01-0BB1

I2.2

DI2

3

L1

7

DI2

3

21

L1

7

22

22

1A

Ø21

+PLC01/119.3

+PLC01-A203

Digital Input **MD011F1**

6ES7131-6FD01-0BB1

I2.3

DI3

4

L1

8

DI3

4

23

L1

8

24

24

1A

Ø23

SPARE.

SPARE.

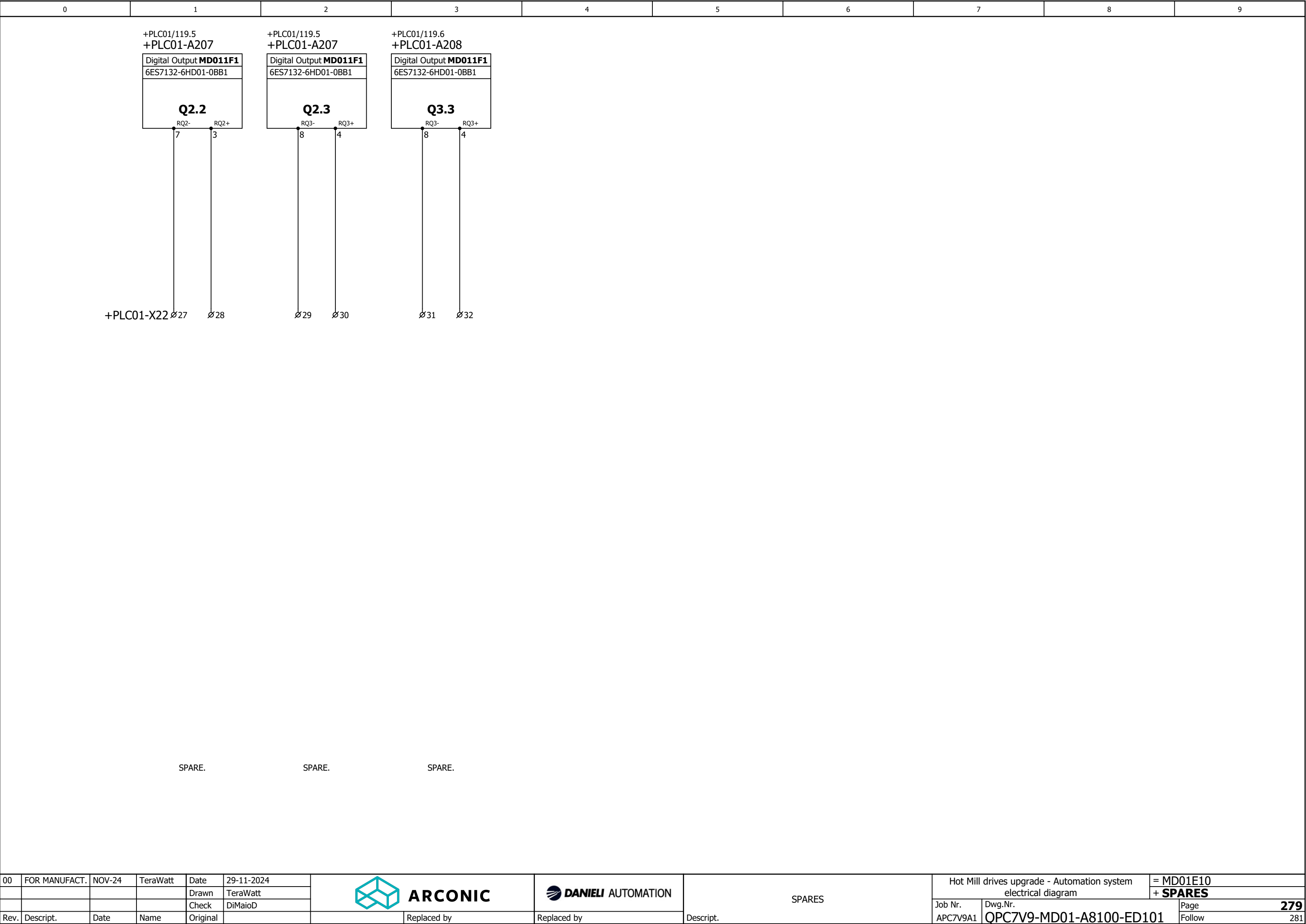
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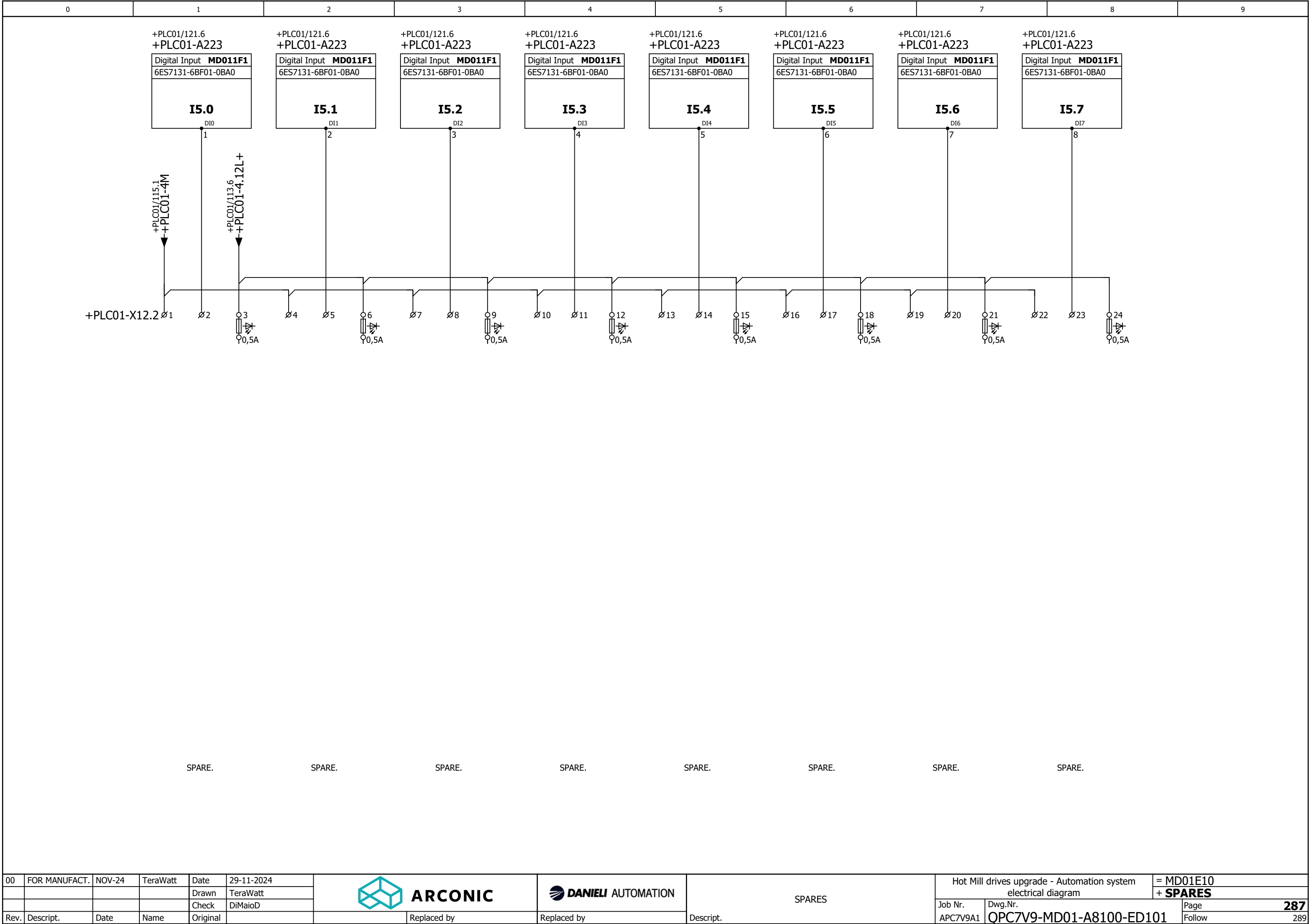
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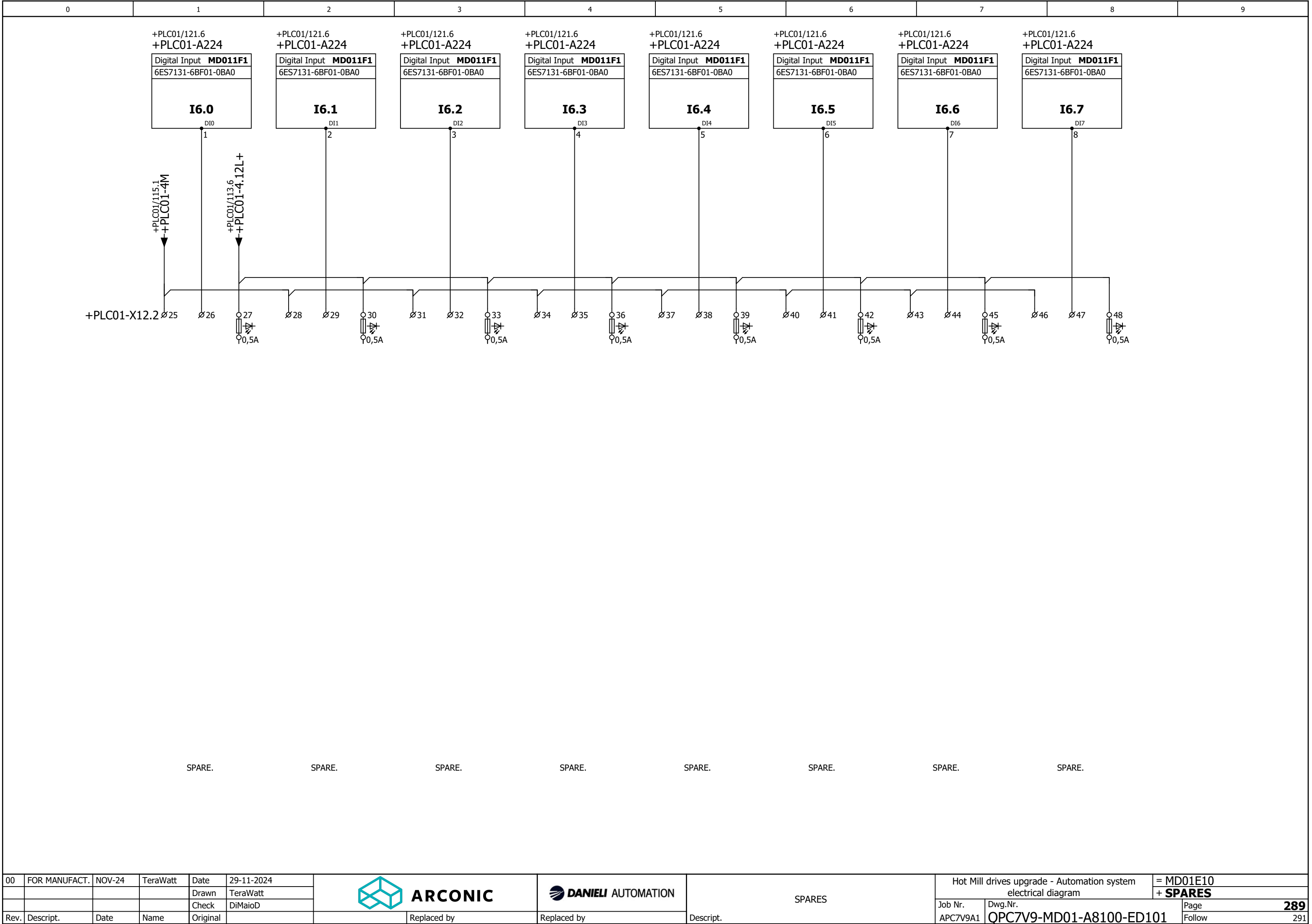
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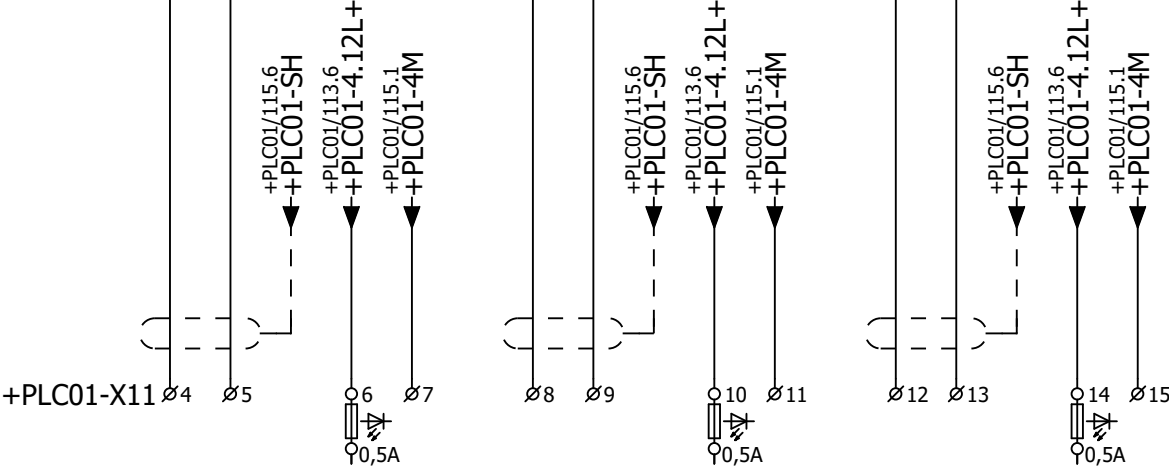
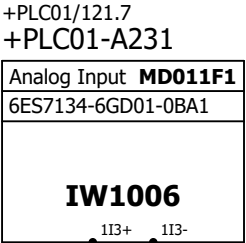
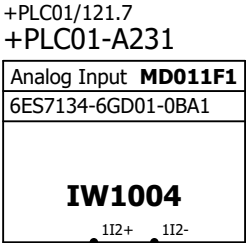
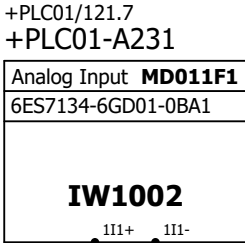
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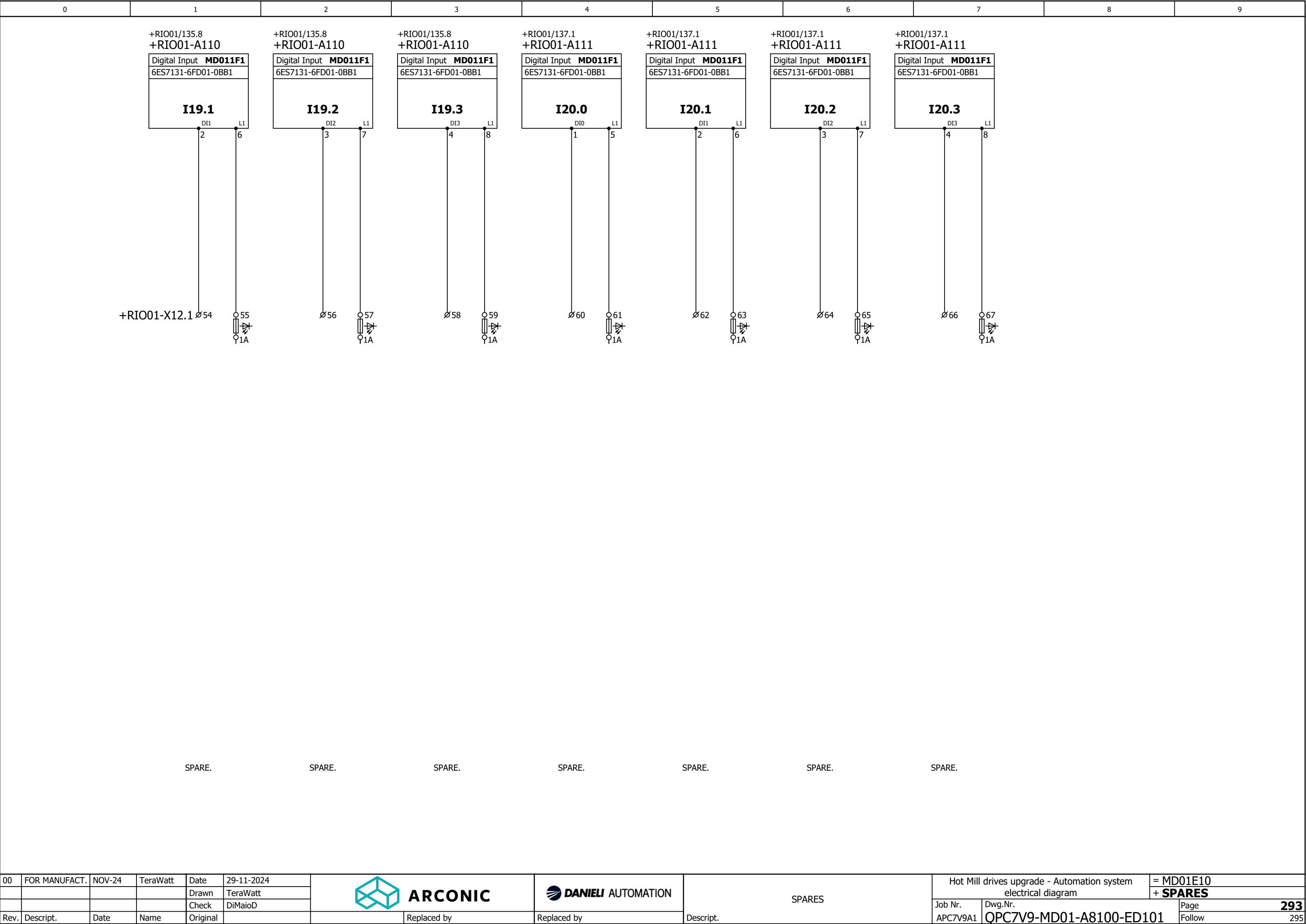




SPARE.

SPARE.

SPARE.



ARCONIC



SPARES

Hot Mill drives upgrade - Automation system
electrical diagram

= MD01E10
+ SPARES

Job Nr.

Dwg.Nr.

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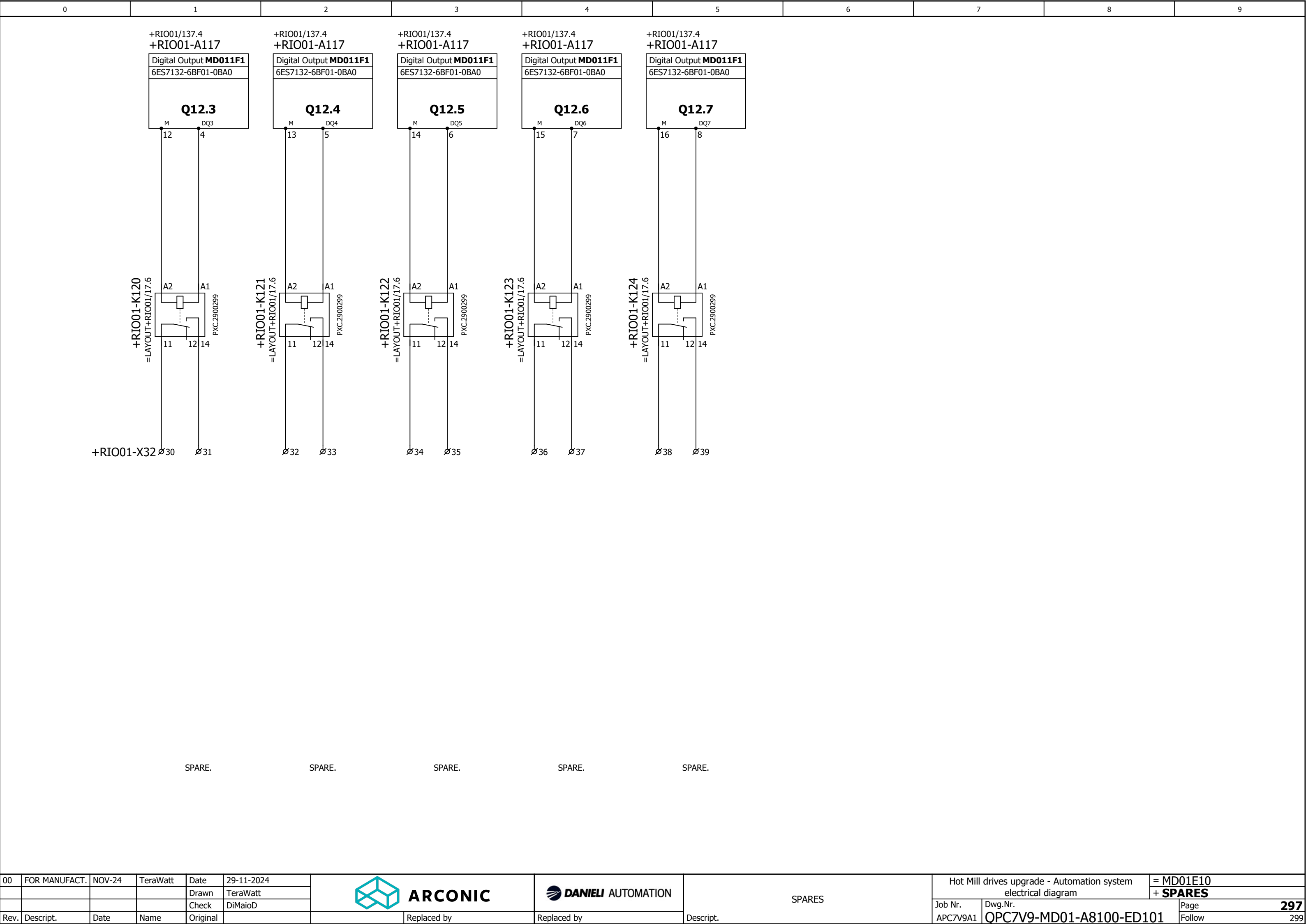
APC7V9A1

QPC7V9-MD01-A8100-ED101

Follow

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0	1	2	3	4	5	6	7	8	9				
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00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	<div><div><div></div></div><div>ARCONIC</div></div> <div><div><div></div></div><div>DANIELI AUTOMATION</div></div>		SPARES		Hot Mill drives upgrade - Automation system electrical diagram		= MD01E10	
				Drawn	TeraWatt					+ SPARES			
				Check	DiMaioD								
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.		Job Nr.	Dwg.Nr.	Page	295
										APC7V9A1	OPC7V9-MD01-A8100-ED101	Follow	297



ARCONIC



SPARES

Hot Mill drives upgrade - Automation system
electrical diagram

= MD01E10
+ **SPARES**

Job Nr.

Dwg.Nr.

Page

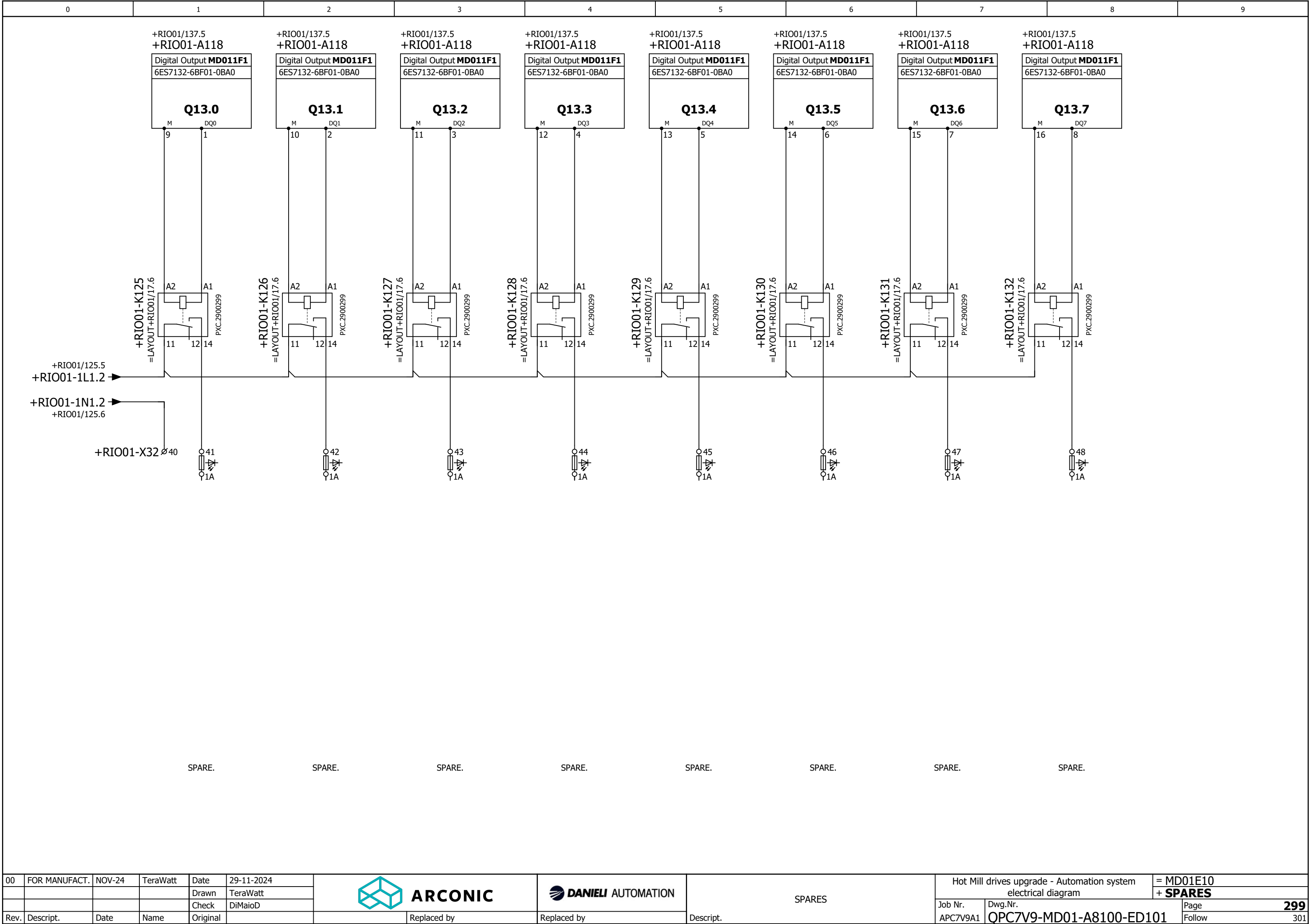
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APC7V9A1

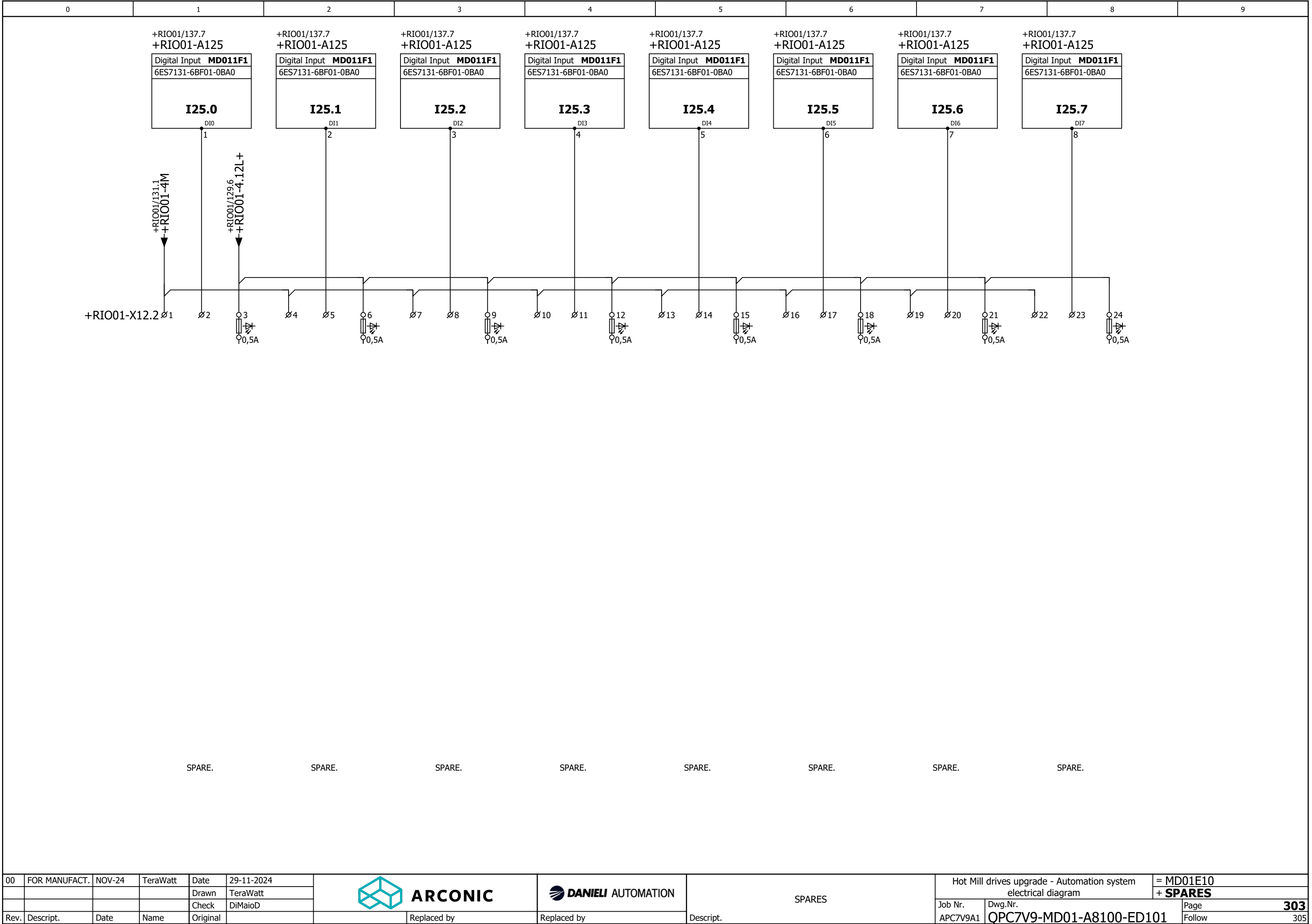
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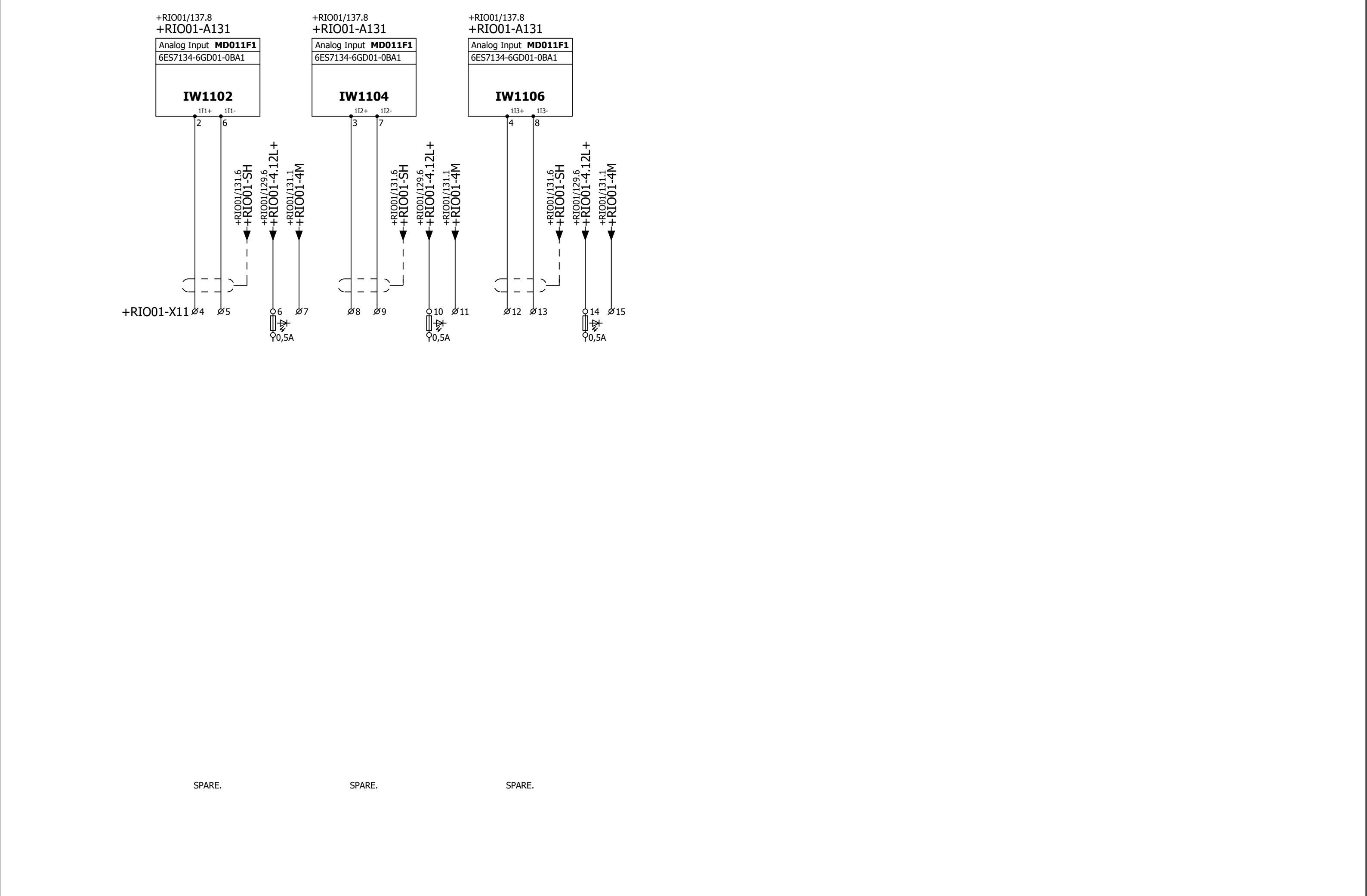
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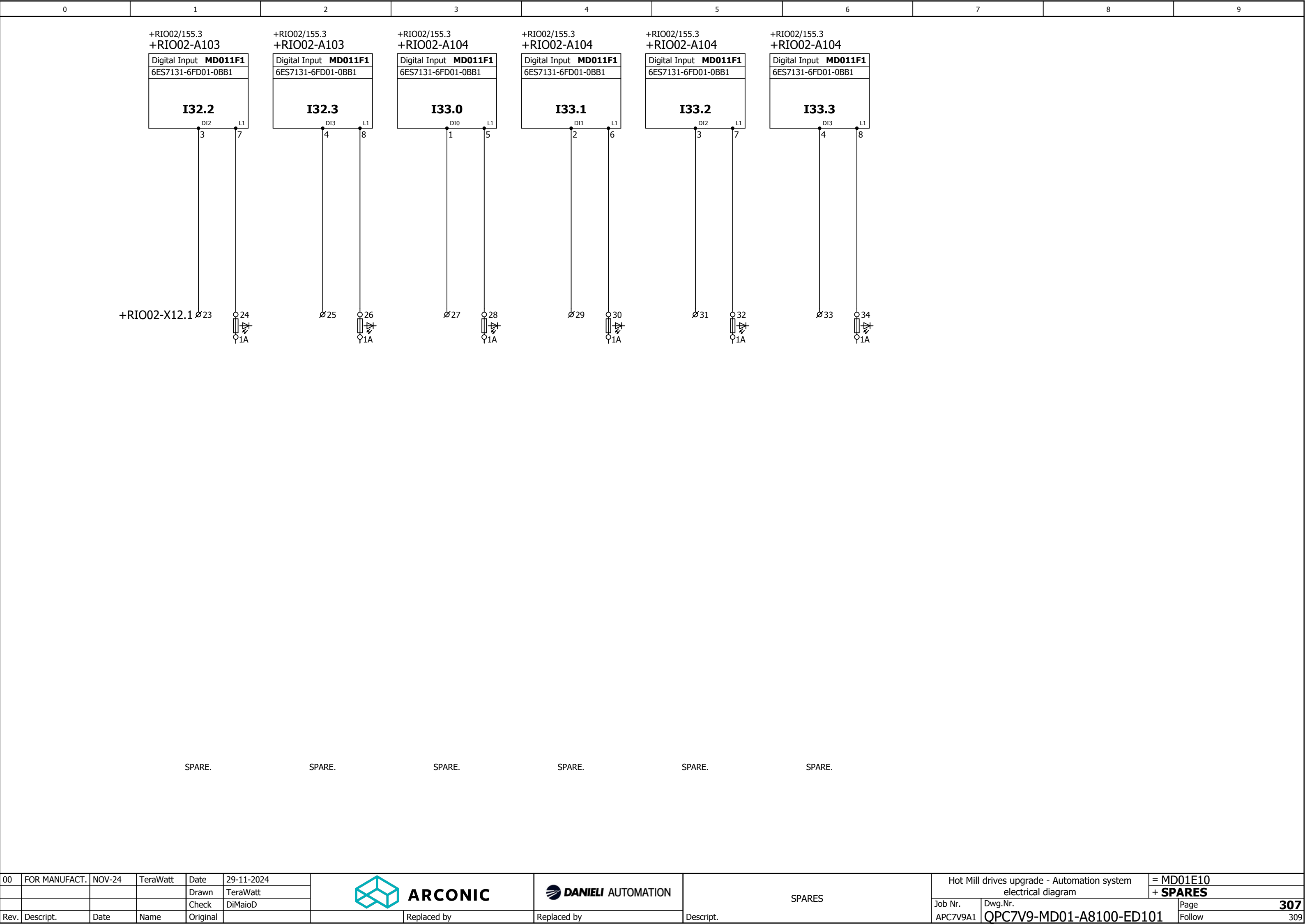
299



0	1	2	3	4	5	6	7	8	9						
<div><div><div><div><div>+RIO01/137.6</div><div>+RIO01-A121</div><div>Analog OutputMD011F1</div><div>6ES7135-6HD00-0BA1</div></div><div><div>QW1108</div><div><div>Q0-5</div><div>Q0+1</div></div><div><div><div></div><div></div></div><div></div></div><div><div>+RIO01/131.6</div><div>+RIO01-SH</div></div></div><div>+RIO01-X21</div><div><div>Ø9</div><div>Ø10</div></div></div><div>SPARE.</div></div><div><div><div><div>+RIO01/137.6</div><div>+RIO01-A121</div><div>Analog OutputMD011F1</div><div>6ES7135-6HD00-0BA1</div></div><div><div>QW1110</div><div><div>Q1-6</div><div>Q1+2</div></div><div><div><div></div><div></div></div><div></div></div><div><div>+RIO01/131.6</div><div>+RIO01-SH</div></div></div><div></div><div><div>Ø11</div><div>Ø12</div></div></div><div>SPARE.</div></div><div><div><div><div>+RIO01/137.6</div><div>+RIO01-A121</div><div>Analog OutputMD011F1</div><div>6ES7135-6HD00-0BA1</div></div><div><div>QW1112</div><div><div>Q2-7</div><div>Q2+3</div></div><div><div><div></div><div></div></div><div></div></div><div><div>+RIO01/131.6</div><div>+RIO01-SH</div></div></div><div></div><div><div>Ø13</div><div>Ø14</div></div></div><div>SPARE.</div></div><div><div><div><div>+RIO01/137.6</div><div>+RIO01-A121</div><div>Analog OutputMD011F1</div><div>6ES7135-6HD00-0BA1</div></div><div><div>QW1114</div><div><div>Q3-8</div><div>Q3+4</div></div><div><div><div></div><div></div></div><div></div></div><div><div>+RIO01/131.6</div><div>+RIO01-SH</div></div></div><div></div><div><div>Ø15</div><div>Ø16</div></div></div><div>SPARE.</div></div></div>															
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	<div><div><div></div></div><div>ARCONIC</div></div> <div><div><div></div></div><div>DANIELI AUTOMATION</div></div>		SPARES		Descript.		Hot Mill drives upgrade - Automation system electrical diagram		= MD01E10	
				Drawn	TeraWatt									+ SPARES	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by			Job Nr.	Dwg.Nr.	Page	301		
										APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	303		







ARCONIC



SPARES

Hot Mill drives upgrade - Automation system
electrical diagram

= MD01E10
+ **SPARES**

Job Nr.

Dwg.Nr.

Page

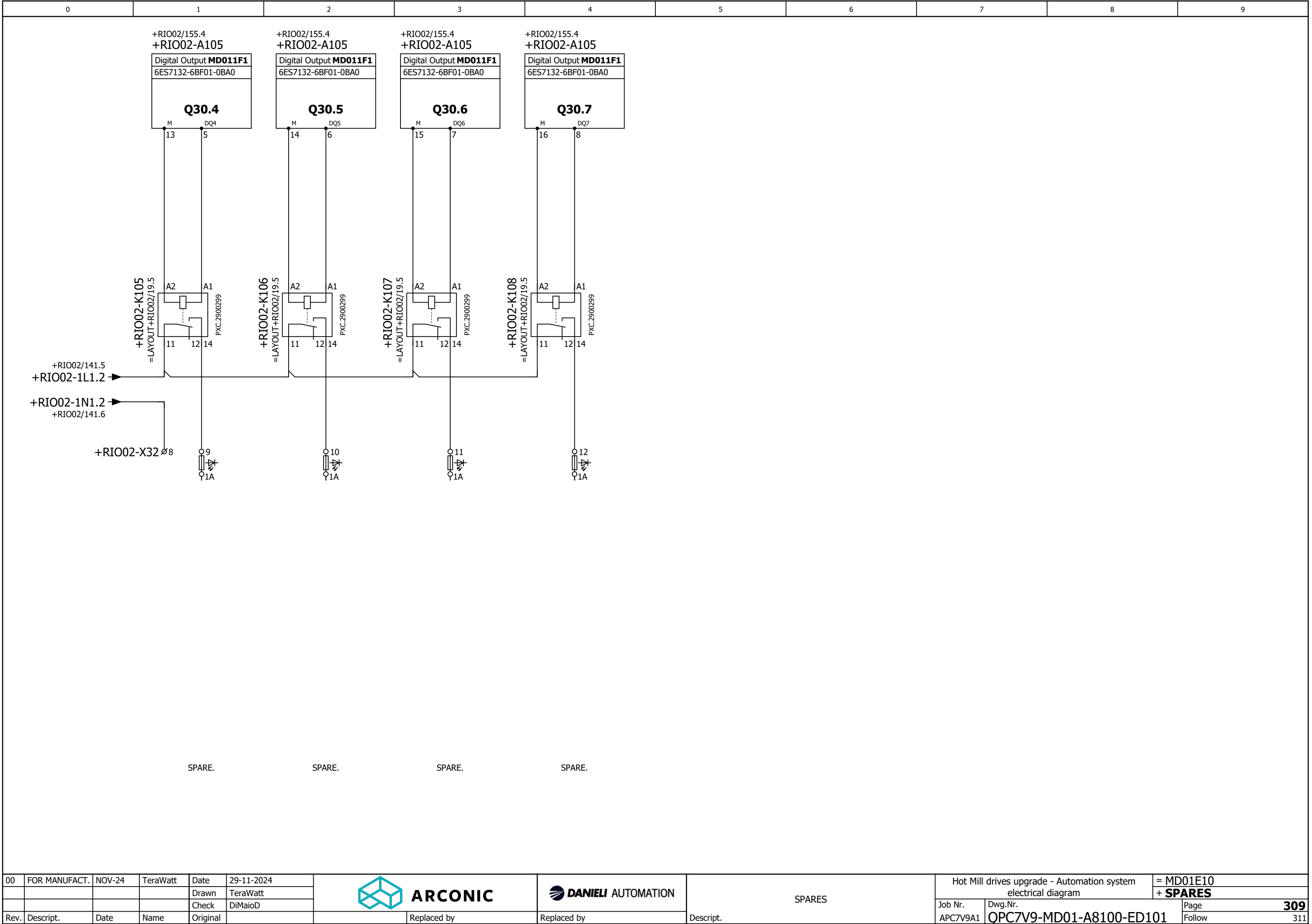
307

APC7V9A1

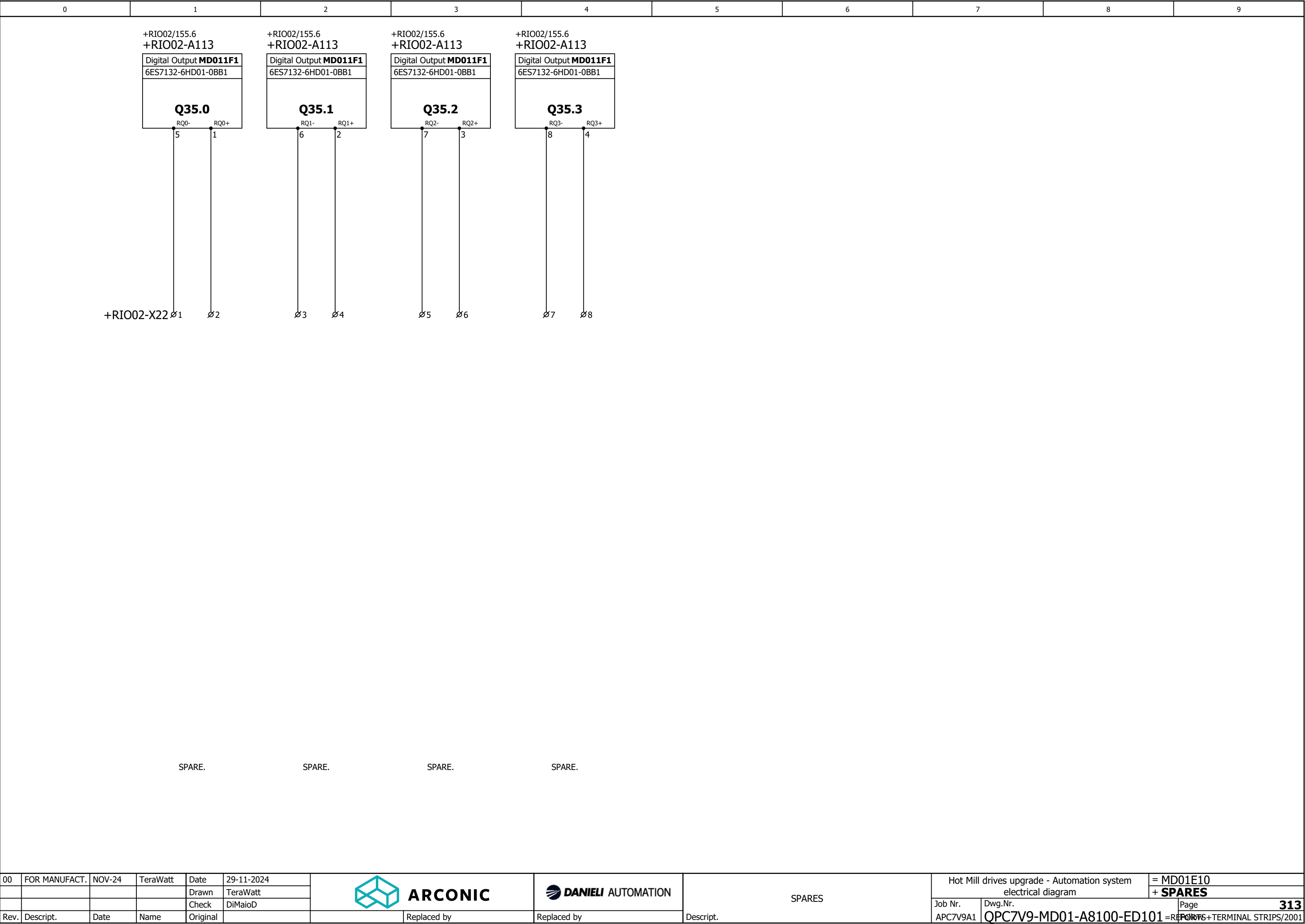
QPC7V9-MD01-A8100-ED101

Follow

309







ARCONIC



SPARES



Hot Mill drives upgrade - Automation system
electrical diagram

= MD01E10
+ **SPARES**



Job Nr.	Dwg.Nr.	Page
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PORTS+ TERMINAL STRIPS/2001



0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+PLC01-X1																			
=CUSTOMER+CUSTOMER-X1					.	1	PT 6	-Q01			1	/101,1							
=CUSTOMER+CUSTOMER-X1					.	2	PT 6	-Q01			3	/101,1							
=CUSTOMER+CUSTOMER-X1					.	3	PT 6	-Q02			1	/101,4							
=CUSTOMER+CUSTOMER-X1					.	4	PT 6	-Q02			3	/101,4							
=CUSTOMER+CUSTOMER-Xn					.	5	PT 6	-Q03			1	/101,7							
=CUSTOMER+CUSTOMER-Xn					.	6	PT 6	-Q03			3	/101,7							
+RIO01-X1			1:2		.	7	PT 6	-F11			2	/103,1							
+RIO01-X1			2:2		.	8	PT 6	-F11			4	/103,1							
+RIO02-X1			1:2		.	9	PT 6	-F12			2	/103,3							
+RIO02-X1			2:2		.	10	PT 6	-F12			4	/103,3							
					.	11	PT 6	-F13			2	/103,5							
					.	12	PT 6	-F13			4	/103,5							
+RIO01-X1			3:2		.	13	PT 6	-F21			2	/107,1							
+RIO01-X1			4:2		.	14	PT 6	-F21			4	/107,1							
+RIO02-X1			3:2		.	15	PT 6	-F22			2	/107,3							
+RIO02-X1			4:2		.	16	PT 6	-F22			4	/107,3							
					.	17	PT 6	-F23			2	/107,5							
					.	18	PT 6	-F23			4	/107,5							

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC	 DANIELI AUTOMATION	TERMINAL STRIP =MD01E10+PLC01-X1	Hot Mill drives upgrade - Automation system		= REPORTS			
				Drawn	TeraWatt				electrical diagram		+ TERMINAL STRIPS			
				Check	DiMaioD				Job Nr.	Dwg.Nr.	Page	2001		
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.	APC7V9A1	QPC7V9-MD01-A8100-ED101		Follow	2002

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+PLC01-X11																			
=EXISTING+JB5						1	PT 2,5-MT	-A231			1	/273,1							
=EXISTING+JB5						2	PT 2,5-MT	-A231			5	/273,1							
								-W.4M											
=EXISTING+JB5						3	PT 4-HESILED 24 (5X20)	-F42			2	/273,1							
						4	PT 2,5-MT	-A231			2	/291,1							
						5	PT 2,5-MT	-A231			6	/291,1							
						6	PT 4-HESILED 24 (5X20)	-F42			2	/291,2							
						7	PT 2,5-MT	-W.4M				/291,2							
						8	PT 2,5-MT	-A231			3	/291,2							
						9	PT 2,5-MT	-A231			7	/291,2							
						10	PT 4-HESILED 24 (5X20)	-F42			2	/291,3							
						11	PT 2,5-MT	-W.4M				/291,3							
						12	PT 2,5-MT	-A231			4	/291,3							
						13	PT 2,5-MT	-A231			8	/291,3							
						14	PT 4-HESILED 24 (5X20)	-F42			2	/291,4							
						15	PT 2,5-MT	-W.4M				/291,4							

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC	 DANIELI AUTOMATION	TERMINAL STRIP =MD01E10+PLC01-X11	Hot Mill drives upgrade - Automation system		= REPORTS	
				Drawn	TeraWatt				electrical diagram		+ TERMINAL STRIPS	
				Check	DiMaioD							
Rev.	Descript.	Date	Name	Original		Replaced by	Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	2002
									APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2003

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+PLC01-X12.1																			
=EXISTING+JB4						1	PT 2,5-MT	-A201			1	/269,2							
=EXISTING+JB4						2	PT 4-HESILA 250 (5X20)	-A201			5	/269,2							
=EXISTING+JB4						3	PT 2,5-MT	-A201			2	/269,3							
=EXISTING+JB4						4	PT 4-HESILA 250 (5X20)	-A201			6	/269,3							
=EXISTING+JB4						5	PT 2,5-MT	-A201			3	/269,4							
=EXISTING+JB4						6	PT 4-HESILA 250 (5X20)	-A201			7	/269,4							
=EXISTING+JB5						7	PT 2,5-MT	-A202			1	/275,1							
=EXISTING+JB5						8	PT 4-HESILA 250 (5X20)	-A202			5	/275,1							
=EXISTING+JB5						9	PT 2,5-MT	-A202			2	/275,2							
						10	PT 4-HESILA 250 (5X20)	-A202			6	/275,2							
						11	PT 2,5-MT	-A201			4	/277,1							
						12	PT 4-HESILA 250 (5X20)	-A201			8	/277,1							
						13	PT 2,5-MT	-A202			3	/277,2							
						14	PT 4-HESILA 250 (5X20)	-A202			7	/277,2							
						15	PT 2,5-MT	-A202			4	/277,3							
						16	PT 4-HESILA 250 (5X20)	-A202			8	/277,3							
						17	PT 2,5-MT	-A203			1	/277,4							
						18	PT 4-HESILA 250 (5X20)	-A203			5	/277,4							
						19	PT 2,5-MT	-A203			2	/277,5							
						20	PT 4-HESILA 250 (5X20)	-A203			6	/277,5							
						21	PT 2,5-MT	-A203			3	/277,6							
						22	PT 4-HESILA 250 (5X20)	-A203			7	/277,6							
						23	PT 2,5-MT	-A203			4	/277,7							
						24	PT 4-HESILA 250 (5X20)	-A203			8	/277,7							



00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	<div> ARCONIC</div>			<div> DANIELI AUTOMATION</div>			TERMINAL STRIP =MD01E10+PLC01-X12.1			Hot Mill drives upgrade - Automation system			= REPORTS	
				Drawn	TeraWatt										electrical diagram			+ TERMINAL STRIPS	
				Check	DiMaioD										Job Nr.	Dwg.Nr.	Page	2003	
Rev.	Descript.	Date	Name	Original		Replaced by			Replaced by			Descript.	APC7V9A1	QPC7V9-MD01-A8100-ED101			Follow	2004	

0		1		2		3		4		5		6		7		8		9		
Plant				Equipment																
Destination device				Terminal				Destination device												
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.										
=MD01E10+PLC01-X12.2																				
					1	PT 2,5-MT	-W.4M			/287,1										
					2	PT 2,5-MT	-A223		1	/287,1										
					3	PT 4-HESILED 24 (5X20)	-F42		2	/287,1										
					4	PT 2,5-MT				/287,2										
					5	PT 2,5-MT	-A223		2	/287,2										
					6	PT 4-HESILED 24 (5X20)				/287,2										
					7	PT 2,5-MT				/287,3										
					8	PT 2,5-MT	-A223		3	/287,3										
					9	PT 4-HESILED 24 (5X20)				/287,3										
					10	PT 2,5-MT				/287,4										
					11	PT 2,5-MT	-A223		4	/287,4										
					12	PT 4-HESILED 24 (5X20)				/287,4										
					13	PT 2,5-MT				/287,5										
					14	PT 2,5-MT	-A223		5	/287,5										
					15	PT 4-HESILED 24 (5X20)				/287,5										
					16	PT 2,5-MT				/287,6										
					17	PT 2,5-MT	-A223		6	/287,6										
					18	PT 4-HESILED 24 (5X20)				/287,6										
					19	PT 2,5-MT				/287,6										
					20	PT 2,5-MT	-A223		7	/287,7										
					21	PT 4-HESILED 24 (5X20)				/287,7										
					22	PT 2,5-MT				/287,7										
					23	PT 2,5-MT	-A223		8	/287,8										
					24	PT 4-HESILED 24 (5X20)				/287,8										
					25	PT 2,5-MT	-W.4M			/289,1										
					26	PT 2,5-MT	-A224		1	/289,1										



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0		1		2		3		4		5		6		7		8		9		
Plant			Equipment																	
Destination device			Terminal				Destination device													
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.										
=MD01E10+PLC01-X21																				
=EXISTING+JB3					1	PT 2,5-MT	-A215		5	/263,8										
=EXISTING+JB3					2	PT 2,5-MT	-A215		1	/263,8										
=EXISTING+JB4					3	PT 2,5-MT	-A215		6	/267,1										
=EXISTING+JB4					4	PT 2,5-MT	-A215		2	/267,1										
=EXISTING+JB4					5	PT 2,5-MT	-A215		7	/267,2										
=EXISTING+JB4					6	PT 2,5-MT	-A215		3	/267,2										
=EXISTING+JB4					7	PT 2,5-MT	-A215		8	/267,3										
=EXISTING+JB4					8	PT 2,5-MT	-A215		4	/267,3										
=EXISTING+JB4					9	PT 2,5-MT	-A216		5	/267,4										
=EXISTING+JB4					10	PT 2,5-MT	-A216		1	/267,4										
=EXISTING+JB4					11	PT 2,5-MT	-A216		6	/267,5										
=EXISTING+JB4					12	PT 2,5-MT	-A216		2	/267,5										
=EXISTING+JB4					13	PT 2,5-MT	-A216		7	/271,1										
=EXISTING+JB4					14	PT 2,5-MT	-A216		3	/271,1										
=EXISTING+JB4					15	PT 2,5-MT	-A216		8	/271,2										
=EXISTING+JB4					16	PT 2,5-MT	-A216		4	/271,2										
=EXISTING+JB4					17	PT 2,5-MT	-A217		5	/271,3										
=EXISTING+JB4					18	PT 2,5-MT	-A217		1	/271,3										
=EXISTING+JB4					19	PT 2,5-MT	-A217		6	/271,4										
=EXISTING+JB4					20	PT 2,5-MT	-A217		2	/271,4										
=EXISTING+JB4					21	PT 2,5-MT	-A217		7	/271,5										
=EXISTING+JB4					22	PT 2,5-MT	-A217		3	/271,5										
=EXISTING+JB4					23	PT 2,5-MT	-A217		8	/271,6										
=EXISTING+JB4					24	PT 2,5-MT	-A217		4	/271,6										
=EXISTING+JB4					25	PT 2,5-MT	-A218		5	/271,7										
=EXISTING+JB4					26	PT 2,5-MT	-A218		1	/271,7										



								27		PT 2,5-MT	-A218		6	/281,1
								28		PT 2,5-MT	-A218		2	/281,1
								29		PT 2,5-MT	-A218		7	/281,2
								30		PT 2,5-MT	-A218		3	/281,2
								31		PT 2,5-MT	-A218		8	/281,3
								32		PT 2,5-MT	-A218		4	/281,3

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+PLC01-X21				Hot Mill drives upgrade - Automation system electrical diagram				= REPORTS	
				Drawn	TeraWatt									+ TERMINAL STRIPS					
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original		Replaced by		Replaced by		Descript.				Job Nr. APC7V9A1	Dwg.Nr. QPC7V9-MD01-A8100-ED101	Page Follow	2005 2006		



0		1		2		3		4		5		6		7		8		9			
Plant			Equipment																		
Destination device			Terminal				Destination device														
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.											
=MD01E10+PLC01-X22																					
=EXISTING+JB2				.	1	PT 2,5	-A205		5	/261,1											
=EXISTING+JB2				.	2	PT 2,5	-A205		1	/261,1											
=EXISTING+JB3				• .	3	PT 2,5	-A205		6	/263,1											
=EXISTING+JB3				.	4	PT 2,5	-A205		2	/263,1											
				• .	5	PT 2,5	-A205		7	/263,2											
=EXISTING+JB3				.	6	PT 2,5	-A205		3	/263,2											
=EXISTING+JB3				• .	7	PT 2,5	-A205		8	/263,3											
=EXISTING+JB3				.	8	PT 2,5	-A205		4	/263,3											
				• .	9	PT 2,5	-A206		5	/263,4											
=EXISTING+JB3				.	10	PT 2,5	-A206		1	/263,4											
=EXISTING+JB3				• .	11	PT 2,5	-A206		6	/263,5											
=EXISTING+JB3				.	12	PT 2,5	-A206		2	/263,5											
				• .	13	PT 2,5	-A206		7	/263,6											
=EXISTING+JB3				.	14	PT 2,5	-A206		3	/263,6											
=EXISTING+JB3				.	15	PT 2,5	-A206		8	/263,6											
=EXISTING+JB3				.	16	PT 2,5	-A206		4	/263,7											
=EXISTING+JB3				• .	17	PT 2,5	-A207		5	/265,1											
=EXISTING+JB3				.	18	PT 2,5	-A207		1	/265,1											
				• .	19	PT 2,5	-A207		6	/265,2											
=EXISTING+JB3				.	20	PT 2,5	-A207		2	/265,2											
=EXISTING+JB4				.	21	PT 2,5	-A208		5	/269,1											
=EXISTING+JB4				.	22	PT 2,5	-A208		1	/269,1											
=EXISTING+JB4				.	23	PT 2,5	-A208		6	/269,5											
=EXISTING+JB4				.	24	PT 2,5	-A208		2	/269,5											
=EXISTING+JB4				.	25	PT 2,5	-A208		7	/269,6											
=EXISTING+JB4				.	26	PT 2,5	-A208		3	/269,6											

00		FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+PLC01-X22				Hot Mill drives upgrade - Automation system				= REPORTS	
					Drawn	TeraWatt									electrical diagram				+ TERMINAL STRIPS	
					Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by		Descript.	Job Nr.	Dwg.Nr.	Page	2006					
												APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2007					



0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+PLC01-X32																			
					1	PT 2,5	-F16			4	/283,1								
					2	PT 4-HESILA 250 (5X20)	-K101			14	/283,1								
					3	PT 4-HESILA 250 (5X20)	-K102			14	/283,2								
					4	PT 4-HESILA 250 (5X20)	-K103			14	/283,3								
					5	PT 4-HESILA 250 (5X20)	-K104			14	/283,4								
					6	PT 4-HESILA 250 (5X20)	-K105			14	/283,5								
					7	PT 4-HESILA 250 (5X20)	-K106			14	/283,6								
					8	PT 4-HESILA 250 (5X20)	-K107			14	/283,7								
					9	PT 4-HESILA 250 (5X20)	-K108			14	/283,8								
					10	PT 2,5	-K109			11	/285,1								
					11	PT 2,5	-K109			14	/285,1								
					12	PT 2,5	-K110			11	/285,2								
					13	PT 2,5	-K110			14	/285,2								
					14	PT 2,5	-K111			11	/285,3								
					15	PT 2,5	-K111			14	/285,3								
					16	PT 2,5	-K112			11	/285,4								
					17	PT 2,5	-K112			14	/285,4								
					18	PT 2,5	-K113			11	/285,5								
					19	PT 2,5	-K113			14	/285,5								
					20	PT 2,5	-K114			11	/285,6								
					21	PT 2,5	-K114			14	/285,6								
					22	PT 2,5	-K115			11	/285,6								
					23	PT 2,5	-K115			14	/285,7								
					24	PT 2,5	-K116			11	/285,7								
					25	PT 2,5	-K116			14	/285,8								

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	<div> ARCONIC</div>			<div> DANIELI AUTOMATION</div>			TERMINAL STRIP =MD01E10+PLC01-X32			Hot Mill drives upgrade - Automation system			= REPORTS	
				Drawn	TeraWatt										electrical diagram			+ TERMINAL STRIPS	
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original		Replaced by			Replaced by			Descript.			Job Nr.	Dwg.Nr.	Page	2007	
												APC7V9A1			QPC7V9-MD01-A8100-ED101			Follow	2008



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Plant				Equipment															
Destination device				Terminal				Destination device											
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.									
=MD01E10+PLC01-X35																			
+DRM02-X35		1	2	·	1	PT 2,5	-K01		13	/257,4									
+DRM02-X35		2	2	·	2	PT 2,5	-K01		14	/257,4									
+DRM02-X35		3	2	·	3	PT 2,5	-K01		23	/257,5									
+DRM02-X35		4	2	·	4	PT 2,5	-K01		24	/257,5									
+DRM02-X35		5	2	·	5	PT 2,5	-X36		4:1	/257,6									
+DRM02-X35		6	2	· •	6	PT 2,5				/257,6									
			2	· •	7	PT 2,5	-K01		33	/257,7									
			2	· •	8	PT 2,5	-K01		34	/257,7									
			2	• •	9	PT 2,5				/257,7									
			2	• •	10	PT 2,5	-K01		S34	/257,8									
			2	· •	11	PT 2,5	-K02		13	/259,4									
			2	· •	12	PT 2,5	-K02		14	/259,4									
			2	· •	13	PT 2,5	-K02		S12	/259,4									
			2	· •	14	PT 2,5				/259,4									
			2	· •	15	PT 2,5	-K02		23	/259,5									
			2	· •	16	PT 2,5	-K02		24	/259,6									
			2	• •	17	PT 2,5				/259,6									
			2	• •	18	PT 2,5				/259,6									
			2	· •	19	PT 2,5	-K02		33	/259,7									
			2	· •	20	PT 2,5	-K02		34	/259,7									
			2	• •	21	PT 2,5				/259,8									
			2	• •	22	PT 2,5	-K02		S34	/259,8									

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+PLC01-X35		Hot Mill drives upgrade - Automation system		= REPORTS	
				Drawn	TeraWatt							electrical diagram		+ TERMINAL STRIPS	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original		Replaced by		Replaced by		Descript.		Job Nr.	Dwg.Nr.	Page	2008
												APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2009

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.									
=MD01E10+PLC01-X36																			
=EXISTING+SP		1	2	·	1	PT 2,5	-K01		S11	/257,1									
=EXISTING+SP		120	2	•	2	PT 2,5				/257,1									
+DRM02-X35		7	2	•	3	PT 2,5				/257,2									
+DRM02-X35		9	2	·	5	PT 2,5				/257,3									
+DRM02-X35		8	2	·	4	PT 2,5	-K01		S12	/257,3									
							-X35		5:1										
+DRM02-X35		10	2	·	6	PT 2,5				/257,3									
			2	•	7	PT 2,5	-K02		S11	/259,1									
			2	•	8	PT 2,5				/259,1									
			2	•	9	PT 2,5				/259,2									
			2	•	10	PT 2,5	-K02		S12	/259,2									

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+PLC01-X36		Hot Mill drives upgrade - Automation system		= REPORTS	
				Drawn	TeraWatt							electrical diagram		+ TERMINAL STRIPS	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	2009	
											APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2010	

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.									
=MD01E10+PLC01-X40																			
-W.4.1L+			3	•	1	PT 4-HESILED 24 (5X20)	-F41		2	/113,1									
			3	•	2	PT 4-HESILED 24 (5X20)				/113,2									
			3	•	3	PT 4-HESILED 24 (5X20)				/113,3									
-A215		L+	3	•	4	PT 4-HESILED 24 (5X20)				/113,4									
-A221		L+																	
-A223		L+																	
-A231		L+																	
			3	•	5	PT 4-HESILED 24 (5X20)				/113,5									



00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+PLC01-X40		Hot Mill drives upgrade - Automation system electrical diagram		= REPORTS	
				Drawn	TeraWatt							+ TERMINAL STRIPS			
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	2010		
										APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2011		

0	1	2	3	4	5	6	7	8	9
Plant		Equipment							
Destination device		Terminal			Destination device				
Designation	Connection	Noise level	Jumper	Terminal nr.	Type	Designation	Connection	Sheet ref.	
=MD01E10+PLC01-X60									
-K01	A1(+)	3	·	1	PT 4-HESILED 24 (5X20)	-F62	2	/109,4	
-K02	A1(+)	3	•	2	PT 4-HESILED 24 (5X20)	-F62	2	/109,4	
		3	•	3	PT 4-HESILED 24 (5X20)			/109,4	
		3	•	4	PT 4-HESILED 24 (5X20)			/109,4	
		3	•	5	PT 4-HESILED 24 (5X20)			/109,5	

Plant		Equipment						
Destination device		Terminal			Destination device			
Designation	Connection	Noise level	Jumper	Terminal nr.	Type	Designation	Connection	Sheet ref.
=MD01E10+RIO01-X1								
+PLC01-X1	7:2		·	1	PT 6	-Q01	1	/123,1
+PLC01-X1	8:2		·	2	PT 6	-Q01	3	/123,1
+PLC01-X1	13:2		·	3	PT 6	-Q02	1	/123,4
+PLC01-X1	14:2		·	4	PT 6	-Q02	3	/123,4
=CUSTOMER+CUSTOMER-Xn			·	5	PT 6	-Q03	1	/123,7
=CUSTOMER+CUSTOMER-Xn			·	6	PT 6	-Q03	3	/123,7

Descript.

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+RIO01-X11																			
=EXISTING+MP			C227		.	1	PT 2,5					/243,1							
=EXISTING+MP			C232		.	2	PT 2,5					/243,1							
=EXISTING+MP			C222		.	3	PT 2,5					/243,1							
						4	PT 2,5-MT	-A131			2	/305,1							
						5	PT 2,5-MT	-A131			6	/305,1							
					.	6	PT 4-HESI LED 24 (5X20)	-F42			2	/305,2							
						7	PT 2,5-MT	-W.4M				/305,2							
						8	PT 2,5-MT	-A131			3	/305,2							
						9	PT 2,5-MT	-A131			7	/305,2							
					.	10	PT 4-HESI LED 24 (5X20)	-F42			2	/305,3							
						11	PT 2,5-MT	-W.4M				/305,3							
						12	PT 2,5-MT	-A131			4	/305,3							
						13	PT 2,5-MT	-A131			8	/305,3							
					.	14	PT 4-HESI LED 24 (5X20)	-F42			2	/305,4							
						15	PT 2,5-MT	-W.4M				/305,4							



00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				TERMINAL STRIP =MD01E10+RIO01-X11		Hot Mill drives upgrade - Automation system		= REPORTS	
				Drawn	TeraWatt							electrical diagram		+ TERMINAL STRIPS	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	2013	
											APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2014	

0		1		2		3		4		5		6		7		8		9			
Plant			Equipment																		
Destination device			Terminal				Destination device														
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.											
=MD01E10+RIO01-X12.1																					
=EXISTING+MP		F50			1	PT 2,5-MT	-A101		1	/221,1											
=EXISTING+MP		F51			2	PT 4-HESILA 250 (5X20)	-A101		5	/221,1											
=EXISTING+MP		F65			3	PT 2,5-MT	-A101		2	/221,2											
=EXISTING+MP		F66			4	PT 4-HESILA 250 (5X20)	-A101		6	/221,2											
=EXISTING+MP		F150			5	PT 2,5-MT	-A101		3	/221,3											
=EXISTING+MP		F151			6	PT 2,5-MT	-A101		4	/221,4											
=EXISTING+MP		F153			7	PT 2,5-MT	-A102		1	/221,5											
=EXISTING+MP		F154			8	PT 2,5-MT	-A102		2	/221,6											
=EXISTING+MP		F160			9	PT 4-HESILA 250 (5X20)	-A102		6	/221,6											
=EXISTING+MP		D113			10	PT 2,5-MT	-A102		3	/225,1											
=EXISTING+MP		D110			11	PT 4-HESILA 250 (5X20)	-A102		7	/225,1											
=EXISTING+MP		D114			12	PT 2,5-MT	-A102		4	/225,2											
=EXISTING+MP		D116			13	PT 2,5-MT	-A103		1	/225,3											
=EXISTING+MP		D119			14	PT 2,5-MT	-A103		2	/225,4											
=EXISTING+MP		D131			15	PT 2,5-MT	-A103		3	/225,5											
=EXISTING+MP		D1			16	PT 4-HESILA 250 (5X20)	-A103		7	/225,5											
=EXISTING+MP		D123			17	PT 2,5-MT	-A103		4	/227,1											
=EXISTING+MP		D124			18	PT 2,5-MT	-A104		1	/227,2											
=EXISTING+MP		D122			19	PT 4-HESILA 250 (5X20)	-A104		5	/227,2											
=EXISTING+MP		D47			20	PT 2,5-MT	-A104		2	/227,3											
=EXISTING+MP		D76			21	PT 4-HESILA 250 (5X20)	-A104		6	/227,3											
=EXISTING+MP		D324			22	PT 2,5-MT	-A104		3	/229,1											
=EXISTING+MP		D322			23	PT 2,5-MT	-A104		4	/229,2											
=EXISTING+MP		D323			24	PT 2,5-MT	-A105		1	/229,3											
=EXISTING+MP		D328			25	PT 2,5-MT	-A105		2	/229,4											
=EXISTING+MP		D329			26	PT 2,5-MT	-A105		3	/229,5											
=EXISTING+MP		D320									=EXISTING+MP		D320			27	PT 4-HESILA 250 (5X20)	-A105		7	/229,5
=EXISTING+MP		D260									=EXISTING+MP		D260			28	PT 2,5-MT	-A105		4	/233,1
=EXISTING+MP		D1									=EXISTING+MP		D1			29	PT 4-HESILA 250 (5X20)	-A105		8	/233,1
=EXISTING+MP		D263									=EXISTING+MP		D263			30	PT 2,5-MT	-A106		1	/233,2
=EXISTING+MP		D264									=EXISTING+MP		D264			31	PT 2,5-MT	-A106		2	/233,3
=EXISTING+MP		D266									=EXISTING+MP		D266			32	PT 2,5-MT	-A106		3	/233,4
=EXISTING+MP		D269									=EXISTING+MP		D269			33	PT 2,5-MT	-A106		4	/233,5
=EXISTING+MP		D330									=EXISTING+MP		D330			34	PT 2,5-MT	-A107		1	/235,1
=EXISTING+MP		D322									=EXISTING+MP		D322			35	PT 2,5-MT	-A107		2	/235,2
=EXISTING+MP		D323									=EXISTING+MP		D323			36	PT 2,5-MT	-A107		3	/235,3
=EXISTING+MP		D328									=EXISTING+MP		D328			37	PT 2,5-MT	-A107		4	/235,4
=EXISTING+MP		D329									=EXISTING+MP		D329			38	PT 2,5-MT	-A108		1	/235,5
=EXISTING+MP		D346									=EXISTING+MP		D346			39	PT 4-HESILA 250 (5X20)	-A108		5	/235,5
=EXISTING+MP		C55									=EXISTING+MP		C55			40	PT 2,5-MT	-A108		2	/239,1
=EXISTING+MP		C56									=EXISTING+MP		C56			41	PT 2,5-MT	-A108		3	/239,2
=EXISTING+MP		C1									=EXISTING+MP		C1			42	PT 4-HESILA 250 (5X20)	-A108		7	/239,2
=EXISTING+MP		C57									=EXISTING+MP		C57			43	PT 2,5-MT	-A108		4	/245,1
=EXISTING+MP		C80									=EXISTING+MP		C80			44	PT 2,5-MT	-A109		1	/245,2
=EXISTING+MP		C1									=EXISTING+MP		C1			45	PT 4-HESILA 250 (5X20)	-A109		5	/245,2
=EXISTING+MP		C101									=EXISTING+MP		C101			46	PT 2,5-MT	-A109		2	/245,3
=EXISTING+MP		C98									=EXISTING+MP		C98			47	PT 4-HESILA 250 (5X20)	-A109		6	/245,3
=EXISTING+MP		C102									=EXISTING+MP		C102			48	PT 2,5-MT	-A109		3	/245,4
=EXISTING+MP		C104									=EXISTING+MP		C104			49	PT 4-HESILA 250 (5X20)	-A109		7	/245,4
=EXISTING+MP		C595									=EXISTING+MP		C595			50	PT 2,5-MT	-A109		4	/245,5
=EXISTING+MP		C592									=EXISTING+MP		C592			51	PT 4-HESILA 250 (5X20)	-A109		8	/245,5
=EXISTING+MP		C597									=EXISTING+MP		C597			52	PT 2,5-MT	-A110		1	/245,6
=EXISTING+MP		C596									=EXISTING+MP		C596			53	PT 4-HESILA 250 (5X20)	-A110		5	/245,6
																54	PT 2,5-MT	-A110		2	/293,1
																55	PT 4-HESILA 250 (5X20)	-A110		6	/293,1
																56	PT 2,5-MT	-A110		3	/293,2
																57	PT 4-HESILA 250 (5X20)	-A110		7	/293,2
																58	PT 2,5-MT	-A110		4	/293,3
																59	PT 4-HESILA 250 (5X20)	-A110		8	/293,3

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+RIO01-X12.1																			
					60	PT 2,5-MT	-A111			1	/293,4								
					61	PT 4-HESILA 250 (5X20)	-A111			5	/293,4								
					62	PT 2,5-MT	-A111			2	/293,5								
					63	PT 4-HESILA 250 (5X20)	-A111			6	/293,5								
					64	PT 2,5-MT	-A111			3	/293,6								
					65	PT 4-HESILA 250 (5X20)	-A111			7	/293,6								
					66	PT 2,5-MT	-A111			4	/293,7								
					67	PT 4-HESILA 250 (5X20)	-A111			8	/293,7								

Plant		Equipment						
Destination device		Terminal			Destination device			
Designation	Connection	Noise level	Jumper	Terminal nr.	Type	Designation	Connection	Sheet ref.
=MD01E10+RIO01-X12.2								
			•	1	PT 2,5-MT	-W.4M		/303,1
				2	PT 2,5-MT	-A125	1	/303,1
			•	3	PT 4-HESILED 24 (5X20)	-F42	2	/303,1
			•	4	PT 2,5-MT			/303,2
				5	PT 2,5-MT	-A125	2	/303,2
			•	6	PT 4-HESILED 24 (5X20)			/303,2
			•	7	PT 2,5-MT			/303,3
				8	PT 2,5-MT	-A125	3	/303,3
			•	9	PT 4-HESILED 24 (5X20)			/303,3
			•	10	PT 2,5-MT			/303,4
				11	PT 2,5-MT	-A125	4	/303,4
			•	12	PT 4-HESILED 24 (5X20)			/303,4
			•	13	PT 2,5-MT			/303,5
				14	PT 2,5-MT	-A125	5	/303,5
			•	15	PT 4-HESILED 24 (5X20)			/303,5
			•	16	PT 2,5-MT			/303,6
				17	PT 2,5-MT	-A125	6	/303,6
			•	18	PT 4-HESILED 24 (5X20)			/303,6
			•	19	PT 2,5-MT			/303,6
				20	PT 2,5-MT	-A125	7	/303,7
			•	21	PT 4-HESILED 24 (5X20)			/303,7
			•	22	PT 2,5-MT			/303,7
				23	PT 2,5-MT	-A125	8	/303,8
			•	24	PT 4-HESILED 24 (5X20)			/303,8



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Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+RIO01-X21																			
=EXISTING+MP			C439			1	PT 2,5-MT	-A120			5	/237,1							
=EXISTING+MP			C436			2	PT 2,5-MT	-A120			1	/237,1							
=EXISTING+MP			C439			3	PT 2,5-MT	-A120			6	/237,2							
=EXISTING+MP			C437			4	PT 2,5-MT	-A120			2	/237,2							
=EXISTING+MP			C739			5	PT 2,5-MT	-A120			7	/237,3							
=EXISTING+MP			C736			6	PT 2,5-MT	-A120			3	/237,3							
=EXISTING+MP			C739			7	PT 2,5-MT	-A120			8	/237,4							
=EXISTING+MP			C737			8	PT 2,5-MT	-A120			4	/237,4							
						9	PT 2,5-MT	-A121			5	/301,1							
						10	PT 2,5-MT	-A121			1	/301,1							
						11	PT 2,5-MT	-A121			6	/301,2							
						12	PT 2,5-MT	-A121			2	/301,2							
						13	PT 2,5-MT	-A121			7	/301,3							
						14	PT 2,5-MT	-A121			3	/301,3							
						15	PT 2,5-MT	-A121			8	/301,4							
						16	PT 2,5-MT	-A121			4	/301,4							

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC			 DANIELI AUTOMATION			Hot Mill drives upgrade - Automation system electrical diagram			= REPORTS		
				Drawn	TeraWatt										+ TERMINAL STRIPS		
				Check	DiMaioD												
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.			Job Nr.	Dwg.Nr.	Page	2017		
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0	1	2	3	4	5	6	7	8	9
Plant		Equipment							
Destination device		Terminal			Destination device				
Designation	Connection	Noise level	Jumper	Terminal nr.	Type	Designation	Connection	Sheet ref.	
=MD01E10+RIO01-X22									
			.	1	PT 2,5	-A113	5	/295,1	
			.	2	PT 2,5	-A113	1	/295,1	
			.	3	PT 2,5	-A113	6	/295,2	
			.	4	PT 2,5	-A113	2	/295,2	
			.	5	PT 2,5	-A113	7	/295,3	
			.	6	PT 2,5	-A113	3	/295,3	
			.	7	PT 2,5	-A113	8	/295,4	
			.	8	PT 2,5	-A113	4	/295,4	

0		1		2		3		4		5		6		7		8		9	
Plant			Equipment																
Destination device			Terminal				Destination device												
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.									
=MD01E10+RIO01-X32																			
=EXISTING+MP		F5		.	1	PT 2,5	-F13		4	/223,1									
=EXISTING+MP		F72		.	2	PT 4-HESILA 250 (5X20)	-K101		14	/223,1									
=EXISTING+MP		F73		.	3	PT 4-HESILA 250 (5X20)	-K102		14	/223,2									
=EXISTING+MP		F74		.	4	PT 4-HESILA 250 (5X20)	-K103		14	/223,3									
=EXISTING+MP		F75		.	5	PT 4-HESILA 250 (5X20)	-K104		14	/223,4									
=EXISTING+MP		F159		.	6	PT 4-HESILA 250 (5X20)	-K105		14	/223,5									
=EXISTING+PANEL_P		D5		.	7	PT 2,5	-K106		11	/225,7									
=EXISTING+PANEL_P		D131		.	8	PT 2,5	-K106		14	/225,7									
=EXISTING+MP		D5		.	9	PT 2,5	-F13		4	/231,1									
=EXISTING+MP		D65		.	10	PT 4-HESILA 250 (5X20)	-K107		14	/231,1									
=EXISTING+MP		D79		.	11	PT 4-HESILA 250 (5X20)	-K108		14	/231,2									
=EXISTING+MP		D63		.	12	PT 4-HESILA 250 (5X20)	-K109		14	/231,3									
=EXISTING+MP		D77		.	13	PT 4-HESILA 250 (5X20)	-K110		14	/231,4									
=EXISTING+MP		D64		.	14	PT 4-HESILA 250 (5X20)	-K111		14	/231,5									
=EXISTING+MP		D78		.	15	PT 4-HESILA 250 (5X20)	-K112		14	/231,6									
=EXISTING+MP		C160		.	16	PT 2,5	-K113		11	/241,1									
=EXISTING+MP		C161		.	17	PT 2,5	-K113		14	/241,1									
=EXISTING+MP		C128		•.	18	PT 2,5	-K114		11	/241,2									
=EXISTING+MP		C130		.	19	PT 2,5	-K114		14	/241,2									
				•.	20	PT 2,5	-K115		11	/241,3									
=EXISTING+MP		C129		.	21	PT 2,5	-K115		14	/241,3									
=EXISTING+MP		C588		•.	22	PT 2,5	-K116		11	/241,4									
=EXISTING+MP		C589		.	23	PT 2,5	-K116		14	/241,4									
				•.	24	PT 2,5	-K117		11	/241,5									
=EXISTING+MP		C590		.	25	PT 2,5	-K117		14	/241,5									
=EXISTING+PANEL_T		T3		•.	26	PT 2,5	-K118		11	/247,1									

=EXISTING+PANEL_T		T31		.	27	PT 2,5	-K118		14	/247,1	
				•.	28	PT 2,5	-K119		11	/247,2	
=EXISTING+PANEL_T		T32		.	29	PT 2,5	-K119		14	/247,2	
				.	30	PT 2,5	-K120		11	/297,1	
				.	31	PT 2,5	-K120		14	/297,1	
				.	32	PT 2,5	-K121		11	/297,2	
				.	33	PT 2,5	-K121		14	/297,2	
				.	34	PT 2,5	-K122		11	/297,3	
				.	35	PT 2,5	-K122		14	/297,3	
				.	36	PT 2,5	-K123		11	/297,4	
				.	37	PT 2,5	-K123		14	/297,4	
				.	38	PT 2,5	-K124		11	/297,5	
				.	39	PT 2,5	-K124		14	/297,5	
				.	40	PT 2,5	-F13		4	/299,1	
				.	41	PT 4-HESILA 250 (5X20)	-K125		14	/299,1	
				.	42	PT 4-HESILA 250 (5X20)	-K126		14	/299,2	
				.	43	PT 4-HESILA 250 (5X20)	-K127		14	/299,3	
				.	44	PT 4-HESILA 250 (5X20)	-K128		14	/299,4	
				.	45	PT 4-HESILA 250 (5X20)	-K129		14	/299,5	
				.	46	PT 4-HESILA 250 (5X20)	-K130		14	/299,6	
				.	47	PT 4-HESILA 250 (5X20)	-K131		14	/299,7	
				.	48	PT 4-HESILA 250 (5X20)	-K132		14	/299,8	

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+RIO01-X32				Hot Mill drives upgrade - Automation system electrical diagram				= REPORTS			
				Drawn	TeraWatt													+ TERMINAL STRIPS			
				Check	DiMaioD																
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0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.									
=MD01E10+RIO01-X40																			
			3	•	1	PT 4-HESILED 24 (5X20)	-F41		2	/129,1									
			3	•	2	PT 4-HESILED 24 (5X20)				/129,2									
			3	•	3	PT 4-HESILED 24 (5X20)				/129,3									
-A115		L+	3	•	4	PT 4-HESILED 24 (5X20)				/129,4									
-A120		L+																	
-A125		L+																	
-A131		L+																	
			3	•	5	PT 4-HESILED 24 (5X20)				/129,5									

00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+RIO01-X40		Hot Mill drives upgrade - Automation system		= REPORTS	
				Drawn	TeraWatt							electrical diagram		+ TERMINAL STRIPS	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original		Replaced by		Replaced by		Descript.		Job Nr.	Dwg.Nr.	Page	2020
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Plant		Equipment						
Destination device		Terminal			Destination device			
Designation	Connection	Noise level	Jumper	Terminal nr.	Type	Designation	Connection	Sheet ref.
=MD01E10+RIO02-X1								
+PLC01-X1	9:2		.	1	PT 6	-Q01	1	/139,1
+PLC01-X1	10:2		.	2	PT 6	-Q01	3	/139,1
+PLC01-X1	15:2		.	3	PT 6	-Q02	1	/139,4
+PLC01-X1	16:2		.	4	PT 6	-Q02	3	/139,4

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Plant				Equipment																
Destination device				Terminal				Destination device												
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.										
=MD01E10+RIO02-X12.1																				
=EXISTING+SP		C940			1	PT 2,5-MT	-A101		1	/249,1										
=EXISTING+SP		C1			2	PT 4-HESILA 250 (5X20)	-A101		5	/249,1										
					3	PT 2,5-MT	-A101		2	/249,2										
					4	PT 4-HESILA 250 (5X20)	-A101		6	/249,2										
=EXISTING+SP		C911			5	PT 2,5-MT	-A101		3	/249,3										
=EXISTING+SP		C1			6	PT 4-HESILA 250 (5X20)	-A101		7	/249,3										
=EXISTING+SP		C956			7	PT 2,5-MT	-A101		4	/253,1										
=EXISTING+SP		C957			8	PT 2,5-MT	-A102		1	/253,2										
=EXISTING+SP		C958			9	PT 2,5-MT	-A102		2	/253,3										
=EXISTING+SP		C959			10	PT 2,5-MT	-A102		3	/253,4										
=EXISTING+SP		C1A			11	PT 4-HESILA 250 (5X20)	-K104		12	/253,4										
					12	PT 2,5-MT				/253,5										
					13	PT 2,5-MT				/253,6										
					14	PT 2,5-MT				/253,7										
					15	PT 2,5-MT				/253,8										
=EXISTING+SP		C1B			16	PT 4-HESILA 250 (5X20)	-K104		14	/253,8										
=EXISTING+SP		C987			17	PT 2,5-MT	-A102		4	/255,1										
=EXISTING+SP		C986			18	PT 4-HESILA 250 (5X20)	-A102		8	/255,1										
=EXISTING+SP		C989			19	PT 2,5-MT	-A103		1	/255,2										
=EXISTING+SP		C988			20	PT 4-HESILA 250 (5X20)	-A103		5	/255,2										
=EXISTING+SP		C985			21	PT 2,5-MT	-A103		2	/255,3										
=EXISTING+SP		C984			22	PT 4-HESILA 250 (5X20)	-A103		6	/255,3										
					23	PT 2,5-MT	-A103		3	/307,1										
					24	PT 4-HESILA 250 (5X20)	-A103		7	/307,1										
					25	PT 2,5-MT	-A103		4	/307,2										
					26	PT 4-HESILA 250 (5X20)	-A103		8	/307,2										

								27		PT 2,5-MT	-A104		1	/307,3
								28		PT 4-HESILA 250 (5X20)	-A104		5	/307,3
								29		PT 2,5-MT	-A104		2	/307,4
								30		PT 4-HESILA 250 (5X20)	-A104		6	/307,4
								31		PT 2,5-MT	-A104		3	/307,5
								32		PT 4-HESILA 250 (5X20)	-A104		7	/307,5
								33		PT 2,5-MT	-A104		4	/307,6
								34		PT 4-HESILA 250 (5X20)	-A104		8	/307,6



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				Drawn	TeraWatt													+ TERMINAL STRIPS					
				Check	DiMaioD																		
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																		APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2023		

0		1		2		3		4		5		6		7		8		9	
Plant				Equipment															
Destination device				Terminal				Destination device											
Designation			Connection	Noise level	Jumper	Terminal nr.	Type	Designation			Connection	Sheet ref.							
=MD01E10+RIO02-X22																			
					.	1	PT 2,5	-A113			5	/313,1							
					.	2	PT 2,5	-A113			1	/313,1							
					.	3	PT 2,5	-A113			6	/313,2							
					.	4	PT 2,5	-A113			2	/313,2							
					.	5	PT 2,5	-A113			7	/313,3							
					.	6	PT 2,5	-A113			3	/313,3							
					.	7	PT 2,5	-A113			8	/313,4							
					.	8	PT 2,5	-A113			4	/313,4							



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				Drawn	TeraWatt							electrical diagram		+ TERMINAL STRIPS	
				Check	DiMaioD										
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.	Job Nr.	Dwg.Nr.	Page	2023		
										APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	2024		



0		1		2		3		4		5		6		7		8		9			
Plant				Equipment																	
Destination device				Terminal					Destination device												
Designation		Connection	Noise level	Jumper	Terminal nr.	Type	Designation		Connection	Sheet ref.											
=MD01E10+RIO02-X32																					
=EXISTING+SP		C5		•	1	PT 2,5	-F13		4	/251,1											
=EXISTING+SP		C912		•	2	PT 4-HESILA 250 (5X20)	-K101		14	/251,1											
=EXISTING+SP		C911		•	3	PT 4-HESILA 250 (5X20)	-K102		14	/251,2											
=EXISTING+SP		C914		•	4	PT 4-HESILA 250 (5X20)	-K103		14	/251,3											
=EXISTING+LOCAL		C5		•	5	PT 2,5				/251,4											
=EXISTING+LOCAL		C912		•	6	PT 4-HESILA 250 (5X20)				/251,4											
=EXISTING+LOCAL		C911		•	7	PT 4-HESILA 250 (5X20)				/251,5											
				•	8	PT 2,5	-F13		4	/309,1											
				•	9	PT 4-HESILA 250 (5X20)	-K105		14	/309,1											
				•	10	PT 4-HESILA 250 (5X20)	-K106		14	/309,2											
				•	11	PT 4-HESILA 250 (5X20)	-K107		14	/309,3											
				•	12	PT 4-HESILA 250 (5X20)	-K108		14	/309,4											
				•	13	PT 2,5	-K109		11	/311,1											
				•	14	PT 2,5	-K109		14	/311,1											
				•	15	PT 2,5	-K110		11	/311,2											
				•	16	PT 2,5	-K110		14	/311,2											
				•	17	PT 2,5	-K111		11	/311,3											
				•	18	PT 2,5	-K111		14	/311,3											
				•	19	PT 2,5	-K112		11	/311,4											
				•	20	PT 2,5	-K112		14	/311,4											
				•	21	PT 2,5	-K113		11	/311,5											
				•	22	PT 2,5	-K113		14	/311,5											
				•	23	PT 2,5	-K114		11	/311,6											
				•	24	PT 2,5	-K114		14	/311,6											
				•	25	PT 2,5	-K115		11	/311,6											
				•	26	PT 2,5	-K115		14	/311,7											



						•		27	PT 2,5	-K116		11	/311,7
						•		28	PT 2,5	-K116		14	/311,8



00		FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC		 DANIELI AUTOMATION		TERMINAL STRIP =MD01E10+RIO02-X32			Hot Mill drives upgrade - Automation system			= REPORTS	
						electrical diagram								+ TERMINAL STRIPS				
					Drawn	TeraWatt					Job Nr.		Dwg.Nr.			Page	2024	
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0	1	2	3	4	5	6	7	8	9
Plant		Equipment							
Destination device		Terminal			Destination device				
Designation	Connection	Noise level	Jumper	Terminal nr.	Type	Designation	Connection	Sheet ref.	
=MD01E10+RIO02-X40									
		3	•	1	PT 4-HESILED 24 (5X20)	-F41	2	/145,1	
		3	•	2	PT 4-HESILED 24 (5X20)			/145,2	
		3	•	3	PT 4-HESILED 24 (5X20)			/145,3	
-A105	L+	3	•	4	PT 4-HESILED 24 (5X20)			/145,4	
		3	•	5	PT 4-HESILED 24 (5X20)			/145,5	



0		1		2		3		4		5		6		7		8		9					
Device		Designation								Q.ty	Manufacturer	Part number				Sheet ref.							
=MD01E10+PLC01-A100		S7-1500, PS 60W 120/230V AC/DC						Power supply module		1	Siemens	6ES7507-0RA00-0AB0				=MD01E10+PLC01/111.2							
=MD01E10+PLC01-A100		MOUNTING RAIL 482MM (19")						Mounting rail		1	Siemens	6ES7590-1AE80-0AA0				=MD01E10+PLC01/111.2							
=MD01E10+PLC01-A101		SIMATIC S7-1500 CPU 1518F-4PN/DP						Central processing unit		1	Siemens	6ES7518-4FP00-0AB0				=MD01E10+PLC01/111.4							
=MD01E10+PLC01-A101		SIMATIC S7 Memory card 256 MB For S7-1x00 CPU								1	Siemens	6ES7954-8LL04-0AA0				=MD01E10+PLC01/111.4							
=MD01E10+PLC01-A200		ET 200SP, IM155-6PN/2 HF						Interface module		1	Siemens	6ES7155-6AU01-0CN0				=MD01E10+PLC01/119.0							
=MD01E10+PLC01-A200		ET 200SP, BUSADAPTER BA 2XRJ45						BA 2xRJ45		1	Siemens	6ES7193-6AR00-0AA0				=MD01E10+PLC01/119.0							
=MD01E10+PLC01-A201		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1				=MD01E10+PLC01/119.1							
=MD01E10+PLC01-A201		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1				=MD01E10+PLC01/119.1							
=MD01E10+PLC01-A202		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1				=MD01E10+PLC01/119.2							
=MD01E10+PLC01-A202		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1				=MD01E10+PLC01/119.2							
=MD01E10+PLC01-A203		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1				=MD01E10+PLC01/119.3							
=MD01E10+PLC01-A203		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1				=MD01E10+PLC01/119.3							
=MD01E10+PLC01-A205		SIMATIC ET 200SP RQ 4x120 VDC ... 230 VAC/5 A NO ST						Relay module		1	Siemens	6ES7132-6HD01-0BB1				=MD01E10+PLC01/119.3							
=MD01E10+PLC01-A205		SIMATIC ET 200SP BU type B0 BU20-P12+A4+0B						Base Unit		1	Siemens	6ES7193-6BP20-0BB0				=MD01E10+PLC01/119.3							
=MD01E10+PLC01-A206		SIMATIC ET 200SP RQ 4x120 VDC ... 230 VAC/5 A NO ST						Relay module		1	Siemens	6ES7132-6HD01-0BB1				=MD01E10+PLC01/119.4							
=MD01E10+PLC01-A206		SIMATIC ET 200SP BU type B0 BU20-P12+A4+0B						Base Unit		1	Siemens	6ES7193-6BP20-0BB0				=MD01E10+PLC01/119.4							
=MD01E10+PLC01-A207		SIMATIC ET 200SP RQ 4x120 VDC ... 230 VAC/5 A NO ST						Relay module		1	Siemens	6ES7132-6HD01-0BB1				=MD01E10+PLC01/119.5							
=MD01E10+PLC01-A207		SIMATIC ET 200SP BU type B0 BU20-P12+A4+0B						Base Unit		1	Siemens	6ES7193-6BP20-0BB0				=MD01E10+PLC01/119.5							
=MD01E10+PLC01-A208		SIMATIC ET 200SP RQ 4x120 VDC ... 230 VAC/5 A NO ST						Relay module		1	Siemens	6ES7132-6HD01-0BB1				=MD01E10+PLC01/119.6							
=MD01E10+PLC01-A208		SIMATIC ET 200SP BU type B0 BU20-P12+A4+0B						Base Unit		1	Siemens	6ES7193-6BP20-0BB0				=MD01E10+PLC01/119.6							
=MD01E10+PLC01-A215		SIMATIC ET 200SP AQ 4xU/I ST						Analog output module		1	Siemens	6ES7135-6HD00-0BA1				=MD01E10+PLC01/121.1							
=MD01E10+PLC01-A215		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D						BaseUnit		1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+PLC01/121.1							
=MD01E10+PLC01-A216		SIMATIC ET 200SP AQ 4xU/I ST						Analog output module		1	Siemens	6ES7135-6HD00-0BA1				=MD01E10+PLC01/121.2							
=MD01E10+PLC01-A216		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B						BaseUnit		1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+PLC01/121.2							
=MD01E10+PLC01-A217		SIMATIC ET 200SP AQ 4xU/I ST						Analog output module		1	Siemens	6ES7135-6HD00-0BA1				=MD01E10+PLC01/121.3							
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				 DANIELI AUTOMATION				PARTS LIST =MD01E10+PLC01				Hot Mill drives upgrade - Automation system electrical diagram				= REPORTS	
				Drawn	TeraWatt													+ PARTS LIST					
				Check	DiMaioD													Page		3001			
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by		Descript.			Job Nr. APC7V9A1	Dwg.Nr. QPC7V9-MD01-A8100-ED101			Follow		3002			

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Device		Designation								Q.ty	Manufacturer	Part number				Sheet ref.							
=MD01E10+PLC01-A217		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+PLC01/121.3						
=MD01E10+PLC01-A218		SIMATIC ET 200SP AQ 4xU/I ST								Analog output module	1	Siemens	6ES7135-6HD00-0BA1				=MD01E10+PLC01/121.3						
=MD01E10+PLC01-A218		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+PLC01/121.3						
=MD01E10+PLC01-A221		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST								Digital output module	1	Siemens	6ES7132-6BF01-0BA0				=MD01E10+PLC01/121.4						
=MD01E10+PLC01-A221		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+PLC01/121.4						
=MD01E10+PLC01-A222		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST								Digital output module	1	Siemens	6ES7132-6BF01-0BA0				=MD01E10+PLC01/121.5						
=MD01E10+PLC01-A222		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+PLC01/121.5						
=MD01E10+PLC01-A223		SIMATIC ET 200SP DI 8x 24V DC ST, PU 1								Digital input module	1	Siemens	6ES7131-6BF01-0BA0				=MD01E10+PLC01/121.6						
=MD01E10+PLC01-A223		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+PLC01/121.6						
=MD01E10+PLC01-A224		SIMATIC ET 200SP DI 8x 24V DC ST, PU 1								Digital input module	1	Siemens	6ES7131-6BF01-0BA0				=MD01E10+PLC01/121.6						
=MD01E10+PLC01-A224		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+PLC01/121.6						
=MD01E10+PLC01-A231		SIMATIC ET 200SP AI 4xI 2-/4-wire ST								Analog input module	1	Siemens	6ES7134-6GD01-0BA1				=MD01E10+PLC01/121.7						
=MD01E10+PLC01-A231		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+PLC01/121.7						
=MD01E10+PLC01-A901		Industrial Ethernet Switch								6 RJ45 ports 10/100/1000 Mbps, 2 SFP ports 100/1000 Mbps	1	Phoenix Contact	2702970				=MD01E10+NET/201.1						
=MD01E10+PLC01-A911		SCALANCE XC216-4C								Manageable switch	1	Siemens	6GK5216-4BS00-2AC2				=MD01E10+NET/201.3						
=MD01E10+PLC01-A911		SCALANCE X ACCESSORY, SFP992-1LD 1 X 1000MBIT/S LC-PORT								SFP992-1LD	2	Siemens	6GK5992-1AM00-8AA0				=MD01E10+NET/201.3						
=MD01E10+PLC01-E10		COOLING FAN								115V 50-60Hz	1	TEXA	FAN25CN0B				=MD01E10+PLC01/105.7						
=MD01E10+PLC01-E30		ECOLINE LED ENCLOSURE LAMP								5W 100-240V 50/60Hz	1	STEGO	02540.3-11				=MD01E10+PLC01/117.3						
=MD01E10+PLC01-E33		ENCLOSURE HEATER								100W 120-240V AC/DC	1	STEGO	14007.0-00				=MD01E10+PLC01/117.5						
=MD01E10+PLC01-F11		SENTRON Miniature circuit breaker								16A 2P C	1	Siemens	5SY4216-7				=MD01E10+PLC01/103.1						
=MD01E10+PLC01-F12		SENTRON Miniature circuit breaker								16A 2P C	1	Siemens	5SY4216-7				=MD01E10+PLC01/103.3						
=MD01E10+PLC01-F13		SENTRON Miniature circuit breaker								10A 2P C	1	Siemens	5SY4210-7				=MD01E10+PLC01/103.5						
=MD01E10+PLC01-F14		SENTRON Miniature circuit breaker								10A 2P C	1	Siemens	5SY4210-7				=MD01E10+PLC01/105.1						
=MD01E10+PLC01-F15		SENTRON Miniature circuit breaker								10A 2P C	1	Siemens	5SY4210-7				=MD01E10+PLC01/105.3						
=MD01E10+PLC01-F16		SENTRON Miniature circuit breaker								10A 2P C	1	Siemens	5SY4210-7				=MD01E10+PLC01/105.5						
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				 DANIELI AUTOMATION				PARTS LIST =MD01E10+PLC01				Hot Mill drives upgrade - Automation system electrical diagram				= REPORTS	
				Drawn	TeraWatt													+ PARTS LIST					
				Check	DiMaioD																		
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Device		Designation								Q.ty	Manufacturer	Part number				Sheet ref.							
=MD01E10+PLC01-F17		SENTRON Miniature circuit breaker						4A 2P C		1	Siemens	5SY4204-7				=MD01E10+PLC01/105.7							
=MD01E10+PLC01-F21		SENTRON Miniature circuit breaker						10A 2P C		1	Siemens	5SY4210-7				=MD01E10+PLC01/107.1							
=MD01E10+PLC01-F22		SENTRON Miniature circuit breaker						10A 2P C		1	Siemens	5SY4210-7				=MD01E10+PLC01/107.3							
=MD01E10+PLC01-F23		SENTRON Miniature circuit breaker						6A 2P C		1	Siemens	5SY4206-7				=MD01E10+PLC01/107.5							
=MD01E10+PLC01-F24		SENTRON Miniature circuit breaker						6A 2P C		1	Siemens	5SY4206-7				=MD01E10+PLC01/109.1							
=MD01E10+PLC01-F25		SENTRON Miniature circuit breaker						6A 2P C		1	Siemens	5SY4206-7				=MD01E10+PLC01/109.4							
=MD01E10+PLC01-F26		SENTRON Miniature circuit breaker						4A 2P C		1	Siemens	5SY4204-7				=MD01E10+PLC01/111.1							
=MD01E10+PLC01-F41		SENTRON Miniature circuit breaker						6A 1P C		1	Siemens	5SY4106-7				=MD01E10+PLC01/113.1							
=MD01E10+PLC01-F42		SENTRON Miniature circuit breaker						4A 1P C		1	Siemens	5SY4104-7				=MD01E10+PLC01/113.6							
=MD01E10+PLC01-F61		SENTRON Miniature circuit breaker						4A 1P C		1	Siemens	5SY4104-7				=MD01E10+PLC01/109.1							
=MD01E10+PLC01-F62		SENTRON Miniature circuit breaker						4A 1P C		1	Siemens	5SY4104-7				=MD01E10+PLC01/109.4							
=MD01E10+PLC01-G40		POWER SUPPLY UNIT						100-240VAC 24VDC/10A		1	Phoenix Contact	2904601				=MD01E10+PLC01/105.1							
=MD01E10+PLC01-G60		POWER SUPPLY UNIT						100-240VAC 24VDC/5A		1	Phoenix Contact	2904600				=MD01E10+PLC01/109.1							
=MD01E10+PLC01-G61		POWER SUPPLY UNIT						100-240VAC 24VDC/5A		1	Phoenix Contact	2904600				=MD01E10+PLC01/109.4							
=MD01E10+PLC01-K01		PNOZsigma Safety relay (standalone)						PNOZ s4 24VDC 3 n/o 1 n/c		1	PILZ	750104				=MD01E10+EMG/257.1							
=MD01E10+PLC01-K02		PNOZsigma Safety relay (standalone)						PNOZ s4 24VDC 3 n/o 1 n/c		1	PILZ	750104				=MD01E10+EMG/259.1							
=MD01E10+PLC01-K101		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.1							
=MD01E10+PLC01-K102		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.2							
=MD01E10+PLC01-K103		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.3							
=MD01E10+PLC01-K104		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.4							
=MD01E10+PLC01-K105		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.5							
=MD01E10+PLC01-K106		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.6							
=MD01E10+PLC01-K107		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.6							
=MD01E10+PLC01-K108		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/283.7							
=MD01E10+PLC01-K109		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299				=MD01E10+SPARES/285.1							
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC						PARTS LIST =MD01E10+PLC01				Hot Mill drives upgrade - Automation system				= REPORTS			
				Drawn	TeraWatt											electrical diagram				+ PARTS LIST			
				Check	DiMaioD																		
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by	Descript.		Job Nr.	Dwg.Nr.	Page									
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Device		Designation								Q.ty	Manufacturer	Part number			Sheet ref.				
=MD01E10+PLC01-K110		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.2				
=MD01E10+PLC01-K111		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.3				
=MD01E10+PLC01-K112		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.4				
=MD01E10+PLC01-K113		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.5				
=MD01E10+PLC01-K114		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.6				
=MD01E10+PLC01-K115		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.6				
=MD01E10+PLC01-K116		RELAY MODULE						24VDC 1CO		1	Phoenix Contact	2900299			=MD01E10+SPARES/285.7				
=MD01E10+PLC01-Q01		ISOLATOR 32A DP						2P 32A		1	Siemens	5TL1232-0			=MD01E10+PLC01/101.1				
=MD01E10+PLC01-Q02		ISOLATOR 32A DP						2P 32A		1	Siemens	5TL1232-0			=MD01E10+PLC01/101.4				
=MD01E10+PLC01-Q03		SENTRON Miniature circuit breaker						6A 2P C		1	Siemens	5SY4206-7			=MD01E10+PLC01/101.7				
=MD01E10+PLC01-Q03		RC unit for 5SY						40A 2P 30mA		1	Siemens	5SM2322-0			=MD01E10+PLC01/101.7				
=MD01E10+PLC01-S10		THERMOSTAT SWITCH						0...+60°C 1NO		1	STEGO	01141.0-00			=MD01E10+PLC01/105.7				
=MD01E10+PLC01-S30		THERMOSTAT SWITCH						-10...+50°C 1NC		1	STEGO	01142.0-00			=MD01E10+PLC01/117.5				
=MD01E10+PLC01-X911		FIBER OPTIC JUNCTION BOX						2 Port Quad (8-Core) Multimode		1	EXCEL	202-107			=MD01E10+NET/201.7				
=MD01E10+PLC01-X912		FIBER OPTIC JUNCTION BOX						2 Port Quad (8-Core) Multimode		1	EXCEL	202-107			=MD01E10+NET/201.7				
=MD01E10+PLC01-X921		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.5				
=MD01E10+PLC01-X922		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.6				
=MD01E10+PLC01-X923		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.7				
=MD01E10+PLC01-X924		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.4				
=MD01E10+PLC01-X925		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.4				
=MD01E10+PLC01-X928		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.5				
=MD01E10+PLC01-X931		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.0				
=MD01E10+PLC01-X932		Mounting rail outlet TS45 AMJ-S incl. AMJ-S Module Cat.6A T568B						for mounting rail TH35		1	Telegärtner	100023004			=MD01E10+NET/201.1				
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC			 DANIELI AUTOMATION		PARTS LIST =MD01E10+PLC01			Hot Mill drives upgrade - Automation system electrical diagram			= REPORTS		
				Drawn	TeraWatt												+ PARTS LIST		
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.				Job Nr.	Dwg.Nr.		Page	3004		
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Device		Designation							Q.ty	Manufacturer	Part number			Sheet ref.					
=MD01E10+RIO01-A100		ET 200SP, IM155-6PN/2 HF						Interface module	1	Siemens	6ES7155-6AU01-0CN0			=MD01E10+RIO01/135.0					
=MD01E10+RIO01-A100		ET 200SP, BUSADAPTER BA 2XRJ45						BA 2xRJ45	1	Siemens	6ES7193-6AR00-0AA0			=MD01E10+RIO01/135.0					
=MD01E10+RIO01-A101		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.1					
=MD01E10+RIO01-A101		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.1					
=MD01E10+RIO01-A102		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.2					
=MD01E10+RIO01-A102		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.2					
=MD01E10+RIO01-A103		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.3					
=MD01E10+RIO01-A103		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.3					
=MD01E10+RIO01-A104		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.3					
=MD01E10+RIO01-A104		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.3					
=MD01E10+RIO01-A105		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.4					
=MD01E10+RIO01-A105		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.4					
=MD01E10+RIO01-A106		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.5					
=MD01E10+RIO01-A106		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.5					
=MD01E10+RIO01-A107		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.6					
=MD01E10+RIO01-A107		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.6					
=MD01E10+RIO01-A108		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.6					
=MD01E10+RIO01-A108		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.6					
=MD01E10+RIO01-A109		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.7					
=MD01E10+RIO01-A109		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.7					
=MD01E10+RIO01-A110		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/135.8					
=MD01E10+RIO01-A110		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/135.8					
=MD01E10+RIO01-A111		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module	1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO01/137.1					
=MD01E10+RIO01-A111		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit	1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO01/137.1					
=MD01E10+RIO01-A113		SIMATIC ET 200SP RQ 4x120 VDC ... 230 VAC/5 A NO ST						Relay module	1	Siemens	6ES7132-6HD01-0BB1			=MD01E10+RIO01/137.2					
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC			 DANIELI AUTOMATION		PARTS LIST =MD01E10+RIO01			Hot Mill drives upgrade - Automation system electrical diagram			= REPORTS		
				Drawn	TeraWatt												+ PARTS LIST		
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.				Job Nr. APC7V9A1	Dwg.Nr. QPC7V9-MD01-A8100-ED101		Page Follow	3005 3006		

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Device		Designation								Q.ty	Manufacturer	Part number				Sheet ref.					
=MD01E10+RIO01-A113		SIMATIC ET 200SP BU type B0 BU20-P12+A4+0B								Base Unit	1	Siemens	6ES7193-6BP20-0BB0				=MD01E10+RIO01/137.2				
=MD01E10+RIO01-A115		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST								Digital output module	1	Siemens	6ES7132-6BF01-0BA0				=MD01E10+RIO01/137.3				
=MD01E10+RIO01-A115		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+RIO01/137.3				
=MD01E10+RIO01-A116		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST								Digital output module	1	Siemens	6ES7132-6BF01-0BA0				=MD01E10+RIO01/137.3				
=MD01E10+RIO01-A116		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+RIO01/137.3				
=MD01E10+RIO01-A117		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST								Digital output module	1	Siemens	6ES7132-6BF01-0BA0				=MD01E10+RIO01/137.4				
=MD01E10+RIO01-A117		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+RIO01/137.4				
=MD01E10+RIO01-A118		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST								Digital output module	1	Siemens	6ES7132-6BF01-0BA0				=MD01E10+RIO01/137.5				
=MD01E10+RIO01-A118		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+RIO01/137.5				
=MD01E10+RIO01-A120		SIMATIC ET 200SP AQ 4xU/I ST								Analog output module	1	Siemens	6ES7135-6HD00-0BA1				=MD01E10+RIO01/137.6				
=MD01E10+RIO01-A120		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+RIO01/137.6				
=MD01E10+RIO01-A121		SIMATIC ET 200SP AQ 4xU/I ST								Analog output module	1	Siemens	6ES7135-6HD00-0BA1				=MD01E10+RIO01/137.6				
=MD01E10+RIO01-A121		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B								BaseUnit	1	Siemens	6ES7193-6BP00-0BA0				=MD01E10+RIO01/137.6				
=MD01E10+RIO01-A125		SIMATIC ET 200SP DI 8x 24V DC ST, PU 1								Digital input module	1	Siemens	6ES7131-6BF01-0BA0				=MD01E10+RIO01/137.7				
=MD01E10+RIO01-A125		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+RIO01/137.7				
=MD01E10+RIO01-A131		SIMATIC ET 200SP AI 4xI 2-/4-wire ST								Analog input module	1	Siemens	6ES7134-6GD01-0BA1				=MD01E10+RIO01/137.8				
=MD01E10+RIO01-A131		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D								BaseUnit	1	Siemens	6ES7193-6BP00-0DA0				=MD01E10+RIO01/137.8				
=MD01E10+RIO01-A911		SCALANCE XC206-2 ST/BFOC								Manageable switch	1	Siemens	6GK5206-2BB00-2AC2				=MD01E10+NET/203.4				
=MD01E10+RIO01-A911		SCALANCE X ACCESSORY, SFP992-1LD 1 X 1000MBIT/S LC-PORT								SFP992-1LD	1	Siemens	6GK5992-1AM00-8AA0				=MD01E10+NET/203.4				
=MD01E10+RIO01-E30		ECOLINE LED ENCLOSURE LAMP								5W 100-240V 50/60Hz	1	STEGO	02540.3-11				=MD01E10+RIO01/133.3				
=MD01E10+RIO01-E33		ENCLOSURE HEATER								100W 120-240V AC/DC	1	STEGO	14007.0-00				=MD01E10+RIO01/133.5				
=MD01E10+RIO01-F11		SENTRON Miniature circuit breaker								10A 2P C	1	Siemens	5SY4210-7				=MD01E10+RIO01/125.1				
=MD01E10+RIO01-F12		SENTRON Miniature circuit breaker								10A 2P C	1	Siemens	5SY4210-7				=MD01E10+RIO01/125.3				
=MD01E10+RIO01-F13		SENTRON Miniature circuit breaker								4A 2P C	1	Siemens	5SY4204-7				=MD01E10+RIO01/125.5				
=MD01E10+RIO01-F41		SENTRON Miniature circuit breaker								6A 1P C	1	Siemens	5SY4106-7				=MD01E10+RIO01/129.1				
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC				 DANIELI AUTOMATION		PARTS LIST =MD01E10+RIO01				Hot Mill drives upgrade - Automation system electrical diagram				= REPORTS	
				Drawn	TeraWatt											+ PARTS LIST					
				Check	DiMaioD											Page 3006					
Rev.	Descript.	Date	Name	Original			Replaced by		Replaced by		Descript.			Job Nr.	Dwg.Nr.		Page	3007			
														APC7V9A1	QPC7V9-MD01-A8100-ED101		Follow				

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Device		Designation						Q.ty	Manufacturer	Part number		Sheet ref.							
=MD01E10+RIO01-F42		SENTRON Miniature circuit breaker						4A 1P C	1	Siemens	5SY4104-7		=MD01E10+RIO01/129.6						
=MD01E10+RIO01-F61		SENTRON Miniature circuit breaker						4A 1P C	1	Siemens	5SY4104-7		=MD01E10+RIO01/127.1						
=MD01E10+RIO01-G40		POWER SUPPLY UNIT						100-240VAC 24VDC/10A	1	Phoenix Contact	2904601		=MD01E10+RIO01/125.1						
=MD01E10+RIO01-G60		POWER SUPPLY UNIT						100-240VAC 24VDC/5A	1	Phoenix Contact	2904600		=MD01E10+RIO01/127.1						
=MD01E10+RIO01-K101		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→F/223.1						
=MD01E10+RIO01-K102		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→F/223.2						
=MD01E10+RIO01-K103		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→F/223.3						
=MD01E10+RIO01-K104		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→F/223.4						
=MD01E10+RIO01-K105		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→F/223.5						
=MD01E10+RIO01-K106		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/225.7						
=MD01E10+RIO01-K107		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/231.1						
=MD01E10+RIO01-K108		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/231.2						
=MD01E10+RIO01-K109		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/231.3						
=MD01E10+RIO01-K110		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/231.4						
=MD01E10+RIO01-K111		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/231.5						
=MD01E10+RIO01-K112		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→D/231.6						
=MD01E10+RIO01-K113		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→C/241.1						
=MD01E10+RIO01-K114		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→C/241.2						
=MD01E10+RIO01-K115		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→C/241.3						
=MD01E10+RIO01-K116		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→C/241.4						
=MD01E10+RIO01-K117		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→C/241.5						
=MD01E10+RIO01-K118		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→T/247.1						
=MD01E10+RIO01-K119		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+MP→T/247.2						
=MD01E10+RIO01-K120		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/297.1						
=MD01E10+RIO01-K121		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/297.2						
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC			 DANIELI AUTOMATION			PARTS LIST =MD01E10+RIO01			Hot Mill drives upgrade - Automation system			= REPORTS	
				Drawn	TeraWatt										electrical diagram			+ PARTS LIST	
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.			Job Nr.	Dwg.Nr.	Page	3007				
												APC7V9A1	QPC7V9-MD01-A8100-ED101	Follow	3008				

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Device		Designation						Q.ty	Manufacturer	Part number		Sheet ref.							
=MD01E10+RIO01-K122		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/297.3						
=MD01E10+RIO01-K123		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/297.4						
=MD01E10+RIO01-K124		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/297.5						
=MD01E10+RIO01-K125		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.1						
=MD01E10+RIO01-K126		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.2						
=MD01E10+RIO01-K127		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.3						
=MD01E10+RIO01-K128		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.4						
=MD01E10+RIO01-K129		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.5						
=MD01E10+RIO01-K130		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.6						
=MD01E10+RIO01-K131		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.6						
=MD01E10+RIO01-K132		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/299.7						
=MD01E10+RIO01-Q01		ISOLATOR 32A DP						2P 32A	1	Siemens	5TL1232-0		=MD01E10+RIO01/123.1						
=MD01E10+RIO01-Q02		SENTRON Miniature circuit breaker						6A 2P C	1	Siemens	5SY4206-7		=MD01E10+RIO01/123.4						
=MD01E10+RIO01-Q03		SENTRON Miniature circuit breaker						6A 2P C	1	Siemens	5SY4206-7		=MD01E10+RIO01/123.7						
=MD01E10+RIO01-Q03		RC unit for 5SY						40A 2P 30mA	1	Siemens	5SM2322-0		=MD01E10+RIO01/123.7						
=MD01E10+RIO01-S30		THERMOSTAT SWITCH						-10...+50°C 1NC	1	STEGO	01142.0-00		=MD01E10+RIO01/133.5						
=MD01E10+RIO01-T1		Resistance/potiposition transducer						Input 0 Ω ... 100 Ω to 0 kΩ ... 100 kΩ	1	Phoenix Contact	2864095		=MD01E10+MP→C/243.1						
=MD01E10+RIO01-X911		FIBER OPTIC JUNCTION BOX						2 Port Quad (8-Core) Multimode	1	EXCEL	202-107		=MD01E10+NET/203.7						

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Device		Designation								Q.ty	Manufacturer	Part number			Sheet ref.				
=MD01E10+RIO02-A100		ET 200SP, IM155-6PN/2 HF						Interface module		1	Siemens	6ES7155-6AU01-0CN0			=MD01E10+RIO02/155.0				
=MD01E10+RIO02-A100		ET 200SP, BUSADAPTER BA 2XRJ45						BA 2xRJ45		1	Siemens	6ES7193-6AR00-0AA0			=MD01E10+RIO02/155.0				
=MD01E10+RIO02-A101		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO02/155.1				
=MD01E10+RIO02-A101		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO02/155.1				
=MD01E10+RIO02-A102		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO02/155.2				
=MD01E10+RIO02-A102		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO02/155.2				
=MD01E10+RIO02-A103		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO02/155.3				
=MD01E10+RIO02-A103		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO02/155.3				
=MD01E10+RIO02-A104		SIMATIC ET 200SP DI 4x 120..230V AC ST						Digital input module		1	Siemens	6ES7131-6FD01-0BB1			=MD01E10+RIO02/155.3				
=MD01E10+RIO02-A104		SIMATIC ET 200SP BU type B1 BU20-P12+A0+4B						Base Unit		1	Siemens	6ES7193-6BP20-0BB1			=MD01E10+RIO02/155.3				
=MD01E10+RIO02-A105		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST						Digital output module		1	Siemens	6ES7132-6BF01-0BA0			=MD01E10+RIO02/155.4				
=MD01E10+RIO02-A105		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2D						BaseUnit		1	Siemens	6ES7193-6BP00-0DA0			=MD01E10+RIO02/155.4				
=MD01E10+RIO02-A106		SIMATIC ET 200SP DQ 8x24VDC/0.5A ST						Digital output module		1	Siemens	6ES7132-6BF01-0BA0			=MD01E10+RIO02/155.5				
=MD01E10+RIO02-A106		SIMATIC ET 200SP BU type A0 BU15-P16+A0+2B						BaseUnit		1	Siemens	6ES7193-6BP00-0BA0			=MD01E10+RIO02/155.5				
=MD01E10+RIO02-A113		SIMATIC ET 200SP RQ 4x120 VDC ... 230 VAC/5 A NO ST						Relay module		1	Siemens	6ES7132-6HD01-0BB1			=MD01E10+RIO02/155.6				
=MD01E10+RIO02-A113		SIMATIC ET 200SP BU type B0 BU20-P12+A4+0B						Base Unit		1	Siemens	6ES7193-6BP20-0BB0			=MD01E10+RIO02/155.6				
=MD01E10+RIO02-A911		SCALANCE XC206-2 ST/BFOC						Manageable switch		1	Siemens	6GK5206-2BB00-2AC2			=MD01E10+NET/205.4				
=MD01E10+RIO02-A911		SCALANCE X ACCESSORY, SFP992-1LD 1 X 1000MBIT/S LC-PORT						SFP992-1LD		1	Siemens	6GK5992-1AM00-8AA0			=MD01E10+NET/205.4				
=MD01E10+RIO02-F11		SENTRON Miniature circuit breaker						10A 2P C		1	Siemens	5SY4210-7			=MD01E10+RIO02/141.1				
=MD01E10+RIO02-F12		SENTRON Miniature circuit breaker						10A 2P C		1	Siemens	5SY4210-7			=MD01E10+RIO02/141.3				
=MD01E10+RIO02-F13		SENTRON Miniature circuit breaker						4A 2P C		1	Siemens	5SY4204-7			=MD01E10+RIO02/141.5				
=MD01E10+RIO02-F41		SENTRON Miniature circuit breaker						6A 1P C		1	Siemens	5SY4106-7			=MD01E10+RIO02/145.1				
=MD01E10+RIO02-F42		SENTRON Miniature circuit breaker						4A 1P C		1	Siemens	5SY4104-7			=MD01E10+RIO02/145.6				
=MD01E10+RIO02-F61		SENTRON Miniature circuit breaker						4A 1P C		1	Siemens	5SY4104-7			=MD01E10+RIO02/143.1				
=MD01E10+RIO02-G40		POWER SUPPLY UNIT						100-240VAC 24VDC/10A		1	Phoenix Contact	2904601			=MD01E10+RIO02/141.1				
00	FOR MANUFACT.	NOV-24	TeraWatt	Date	29-11-2024	 ARCONIC			 DANIELI AUTOMATION		PARTS LIST =MD01E10+RIO02			Hot Mill drives upgrade - Automation system electrical diagram			= REPORTS		
				Drawn	TeraWatt												+ PARTS LIST		
				Check	DiMaioD														
Rev.	Descript.	Date	Name	Original			Replaced by	Replaced by	Descript.				Job Nr. APC7V9A1	Dwg.Nr. QPC7V9-MD01-A8100-ED101		Page Follow	3009 3010		

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Device		Designation						Q.ty	Manufacturer	Part number		Sheet ref.							
=MD01E10+RIO02-G60		POWER SUPPLY UNIT						100-240VAC 24VDC/5A	1	Phoenix Contact	2904600		=MD01E10+RIO02/143.1						
=MD01E10+RIO02-K101		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SP→C/251.1						
=MD01E10+RIO02-K102		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SP→C/251.2						
=MD01E10+RIO02-K103		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SP→C/251.3						
=MD01E10+RIO02-K104		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SP→C/253.8						
=MD01E10+RIO02-K105		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/309.1						
=MD01E10+RIO02-K106		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/309.2						
=MD01E10+RIO02-K107		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/309.3						
=MD01E10+RIO02-K108		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/309.4						
=MD01E10+RIO02-K109		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.1						
=MD01E10+RIO02-K110		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.2						
=MD01E10+RIO02-K111		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.3						
=MD01E10+RIO02-K112		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.4						
=MD01E10+RIO02-K113		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.5						
=MD01E10+RIO02-K114		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.6						
=MD01E10+RIO02-K115		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.6						
=MD01E10+RIO02-K116		RELAY MODULE						24VDC 1CO	1	Phoenix Contact	2900299		=MD01E10+SPARES/311.7						
=MD01E10+RIO02-Q01		ISOLATOR 32A DP						2P 32A	1	Siemens	5TL1232-0		=MD01E10+RIO02/139.1						
=MD01E10+RIO02-Q02		SENTRON Miniature circuit breaker						6A 2P C	1	Siemens	5SY4206-7		=MD01E10+RIO02/139.4						
=MD01E10+RIO02-X911		FIBER OPTIC JUNCTION BOX						2 Port Quad (8-Core) Multimode	1	EXCEL	202-107		=MD01E10+NET/205.7						