

RITTAL GmbH & Co. KG

AUF DEM STÜTZELBERG
D-35745 Herborn

<http://www.rittal.de>



MODEL : SK3336.460
KRAE0250TT00V000EG

DRAWING NUMBER : EP22017 -

CODE : 928225

POWER SUPPLY : 400 3 50Hz - 460 3 60Hz

AUXILIARY SUPPLY : 24VAC

CUSTOMER :

REFERENCE :

CREATED THE : 20/04/2022 BY AL1

CHANGED ON THE : BY NUMBER OF PAGES 20

!! WARNING ! Change transformer wiring according power supply voltage

&EAB/1

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SK3336.460
KRAE0250TT00V000EG
COVER

DRAWING NUMBER	EP22017	EPLAN Electric P8	2022.0.3
CABINET CODE	928225	3D REVISION	3LPS_CARTRIT_ST
		PAGES COUNTER	1
		NUMBER OF PAGES	20
&EAA	=	+	1

PAGE OVERVIEW

ZLP8_PAGKEL			
PAGE	DESIGNATION	DATE REVISION	REVISOR
&EAA/1	COVER		
&EAB/1	PAGE OVERVIEW		
&EAB/2	PAGE OVERVIEW		
&EFS=PWC+EC01/1	POWER WIRING		
&EFS=PWC+EC01/2	POWER WIRING		
&EFS=AUA+EC01/1	DIGITAL OUTPUT		
&EFS=AUA+EC01/2	DIGITAL OUTPUT		
&EFS=AUA+EC01/3	DIGITAL INPUT		
&EFS=AIN+EC01/1	ANALOGUE INPUT		
&EFS=ISN+EC01/1	IN/OUT SIGNALS		
&EMZ+EC01/1	UPC OVERVIEW		
&EMA/1	TERMINAL STRIP SUMMARY +EC01-+EC01-X3		
&EMA/2	TERMINAL DIAGRAM +EC01-X2		
&EMA/3	TERMINAL DIAGRAM +EC01-X2		
&EMA/4	TERMINAL DIAGRAM +EC01-X3		
&EMB/1	CABLE OVERVIEW =PWC+EC01-W0-=AUA+EC01-W38		

&EAA/1

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SK3336.460
KRAE0250TT00V000EG
PAGE OVERVIEW

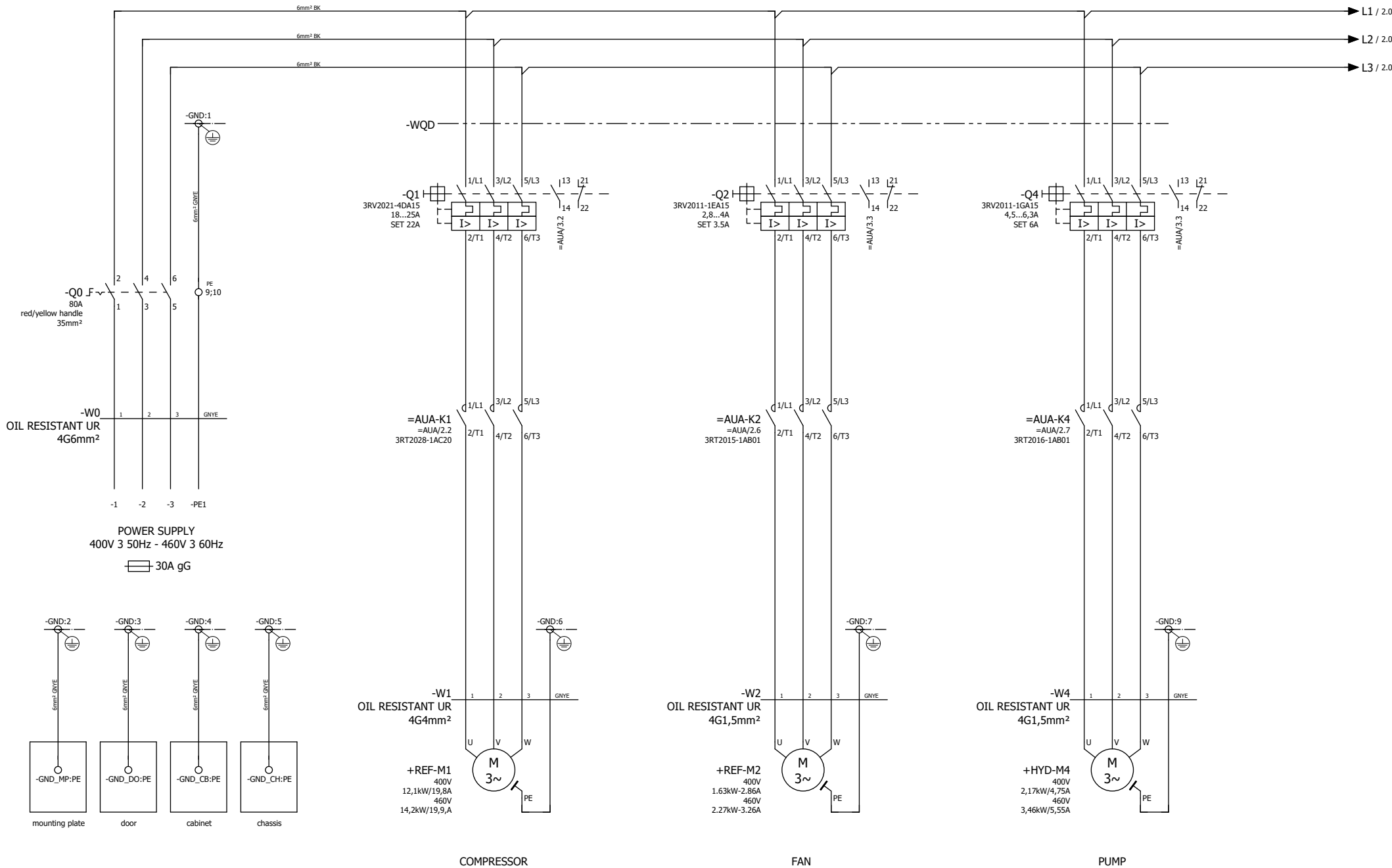
DRAWING NUMBER		EP22017		EPLAN Electric P8	2022.0.3
CABINET CODE		928225		3D REVISION	
&EAB		=		+	
					1

ZLP8_CARTRIT_ST

PAGES COUNTER

NUMBER OF PAGES

20



&EAB=+/2

2

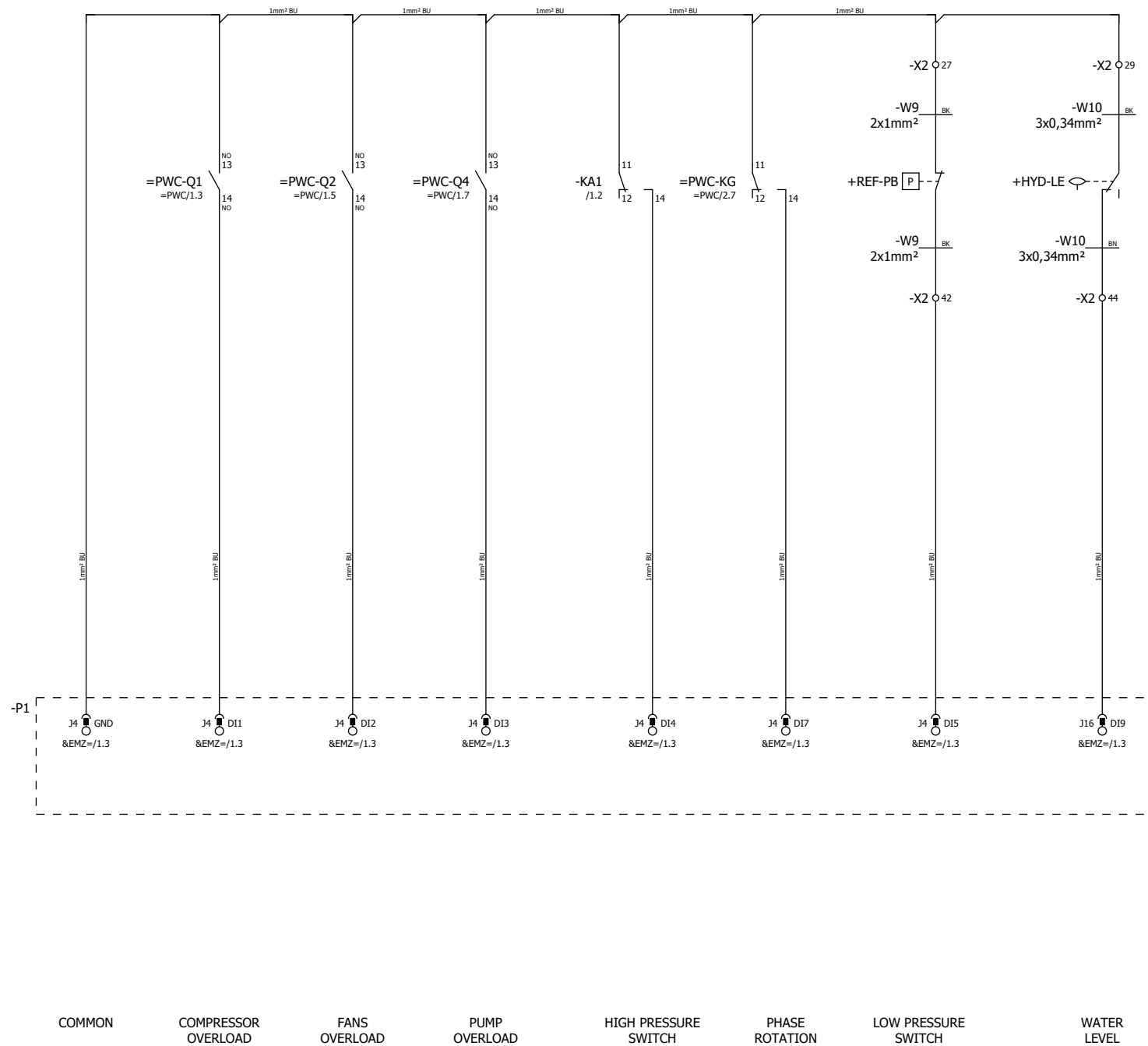
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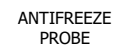


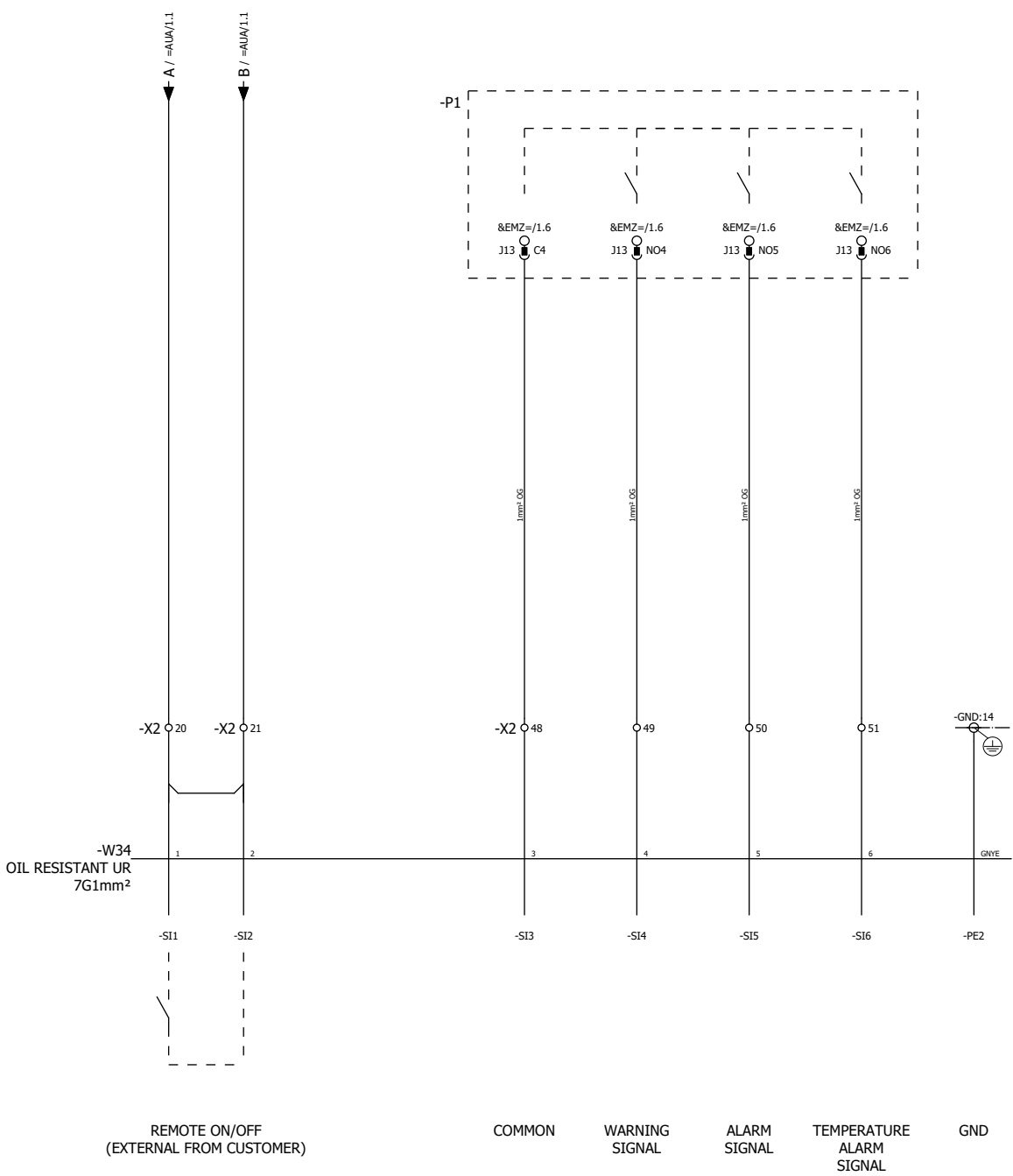
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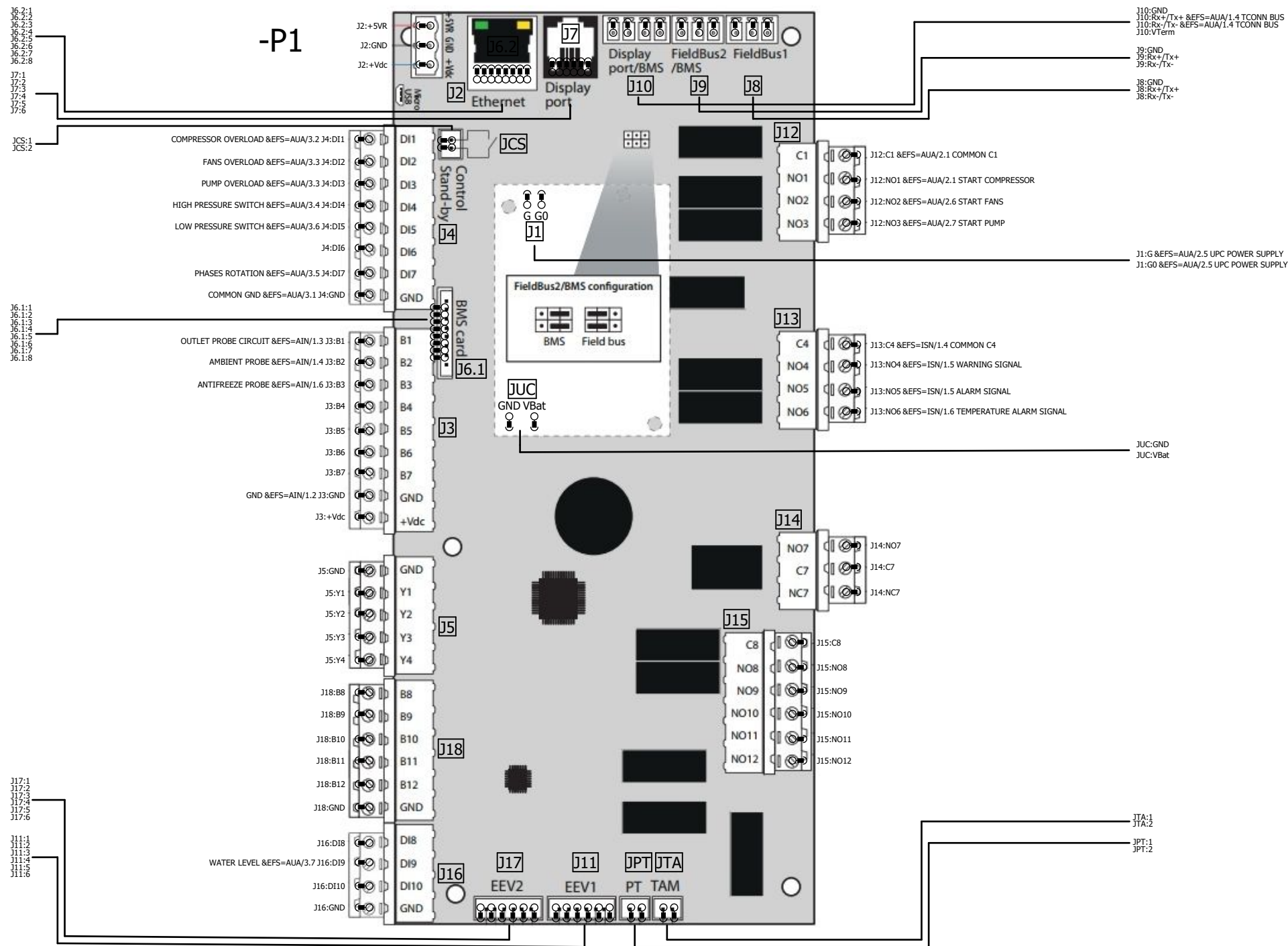
SK3336.460
KRAE0250TT00V000EG
POWER WIRING

DRAWING NUMBER	EP22017	EPLAN Electric P8	2022.0.3
CABINET CODE	928225	3D REVISION	3LP8_CARTRIT_ST
&EFS	=PWC	+EC01	PAGES COUNTER
			NUMBER OF PAGES
			20
			1










&EFS=ISN/1

&EMA+/1

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SK3336.460
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UPC OVERVIEW

DRAWING NUMBER	EP22017	EPLAN Electric P8	2022.0.3
CABINET CODE	928225	3D REVISION	11
&EMZ	=	+EC01	20

TERMINAL STRIP SUMMARY

2LP8_INMORKEL

STRIP DESIGNATION	TEXT OF THE STRIP DEFINITION	TERMINALS					GRAPHICS PAGE OF THE TERMINAL STRIP
		FIRST	LAST	SUM OF ALL	SUM OF ALL	TOTAL NUMBER	
				PE	N		
+EC01	CRANKCASE HEATER TERMINALS BOARD			0	0	0	
+EC01-X2	AUXILIARY TERMINALS BOARD	12	51	0	0	20	&EMA/2
+EC01-X3		80	81	0	0	2	&EMA/4

TERMINAL DIAGRAM

0

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TERMINAL DIAGRAM																		
STRIP DESIGNATION +EC01-X2				CABLE NAME								CABLE NAME						
												CABLE NAME						
				PAGE / PATH		TERM. CROSS SECTION		CONNECTION		INT DESIGN		LEVEL		JUMPERS		TERMINAL NUMBER		TERM. CROSS SECTION

TERMINAL DIAGRAM

		PAGE / PATH	&EFS=AIN/1.6	&EFS=ISN/1.4	&EFS=ISN/1.5	&EFS=ISN/1.5	&EFS=ISN/1.6										
		TERM. CROSS SECTION	2.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²	2.5 mm²										
CABLE NAME																	
		CONNECTION	J3:B3		J13:C4		J13:NO4										
		INT DESIGN	-P1		-P1		-P1	J13:NO5									
		LEVEL	0		0		0										
		JUMPERS	I		I		I										
		TERMINAL NUMBER	47		48		49		50		51						
CABLE NAME																	
		=ISN-W34	OIL RESISTANT UR		3		4		5		6						
		=AIN-W14	TPE	WH													
STRIP DESIGNATION +EC01-X2		CONNECTION															
		EXT DESIGN	-B3		-S13		-S14		-S15		-S16						
			ANTIFREEZE PROBE (+)		COMMON		WARNING SIGNAL		ALARM SIGNAL		TEMPERATURE ALARM SIGNAL						

[illegible]

CABLE OVERVIEW

2LP8_CAVIKEL

[illegible]

&EMA/4

&EPC/1

BILL OF MATERIALS



2LP8_RICKEL_20

DESIGNATION	AMOUNT	LENGTH	ARTICLE NUMBER	DESIGNATION 1	MANUFACTURER	INTERNAL NO	PAGE / PATH
	3	1,69 m		CABLE 1X6mm² NO7V-K BLACK	---	909219	&EFS=PWC+EC01/1.2
	2	3,41 m		CEI 20-22 NO7V-K 450/750V 1X1,5 GREEN/YELLOW	---	902173	&EFS=PWC+EC01/1.1;&EFS=PWC+EC01/2.6
	4	1,08 m		CEI 20-22 NO7V-K 450/750V 1X6 GREEN/YELLOW	---	902177	&EFS=PWC+EC01/1.0...&EFS=PWC+EC01/1.2
	7	3,48 m		CEI 20-22 NO7V-K 450/750V 1X4 BLACK	---	904727	&EFS=PWC+EC01/2.1;&EFS=PWC+EC01/2.4&EFS=PWC+EC01/2.4
	6	3,88 m		CEI 20-22 NO7V-K 450/750V 1X1,5 BLACK	---	904474	&EFS=PWC+EC01/2.2&EFS=PWC+EC01/2.3&EFS=PWC+EC01/2.4
	2	3,69 m		CEI 20-22 NO7V-K 450/750V 1X1 GNYE	---	926181	&EFS=AUA+EC01/1.6;&EFS=PWC+EC01/2.5
	19	12,25 m		CEI 20-22 NO7V-K 450/750V 1X1 RED	---	904728	
	16	8,92 m		CEI 20-22 NO7V-K 450/750V 1X1 BLUE	---	902166	&EFS=AUA+EC01/1.6;&EFS=AUA+EC01/3.1...&EFS=AUA+EC01/3.2
	4	3,19 m		CEI 20-22 NO7V-K 450/750V 1X1 WHITE	---	902167	&EFS=AUA+EC01/1.2...&EFS=AUA+EC01/1.4;&EFS=AUA+EC01/1.4
	4	2,74 m		CEI 20-22 NO7V-K 450/750V 1X1 ORANGE	---	909220	&EFS=ISN+EC01/1.4...&EFS=ISN+EC01/1.6
0001	1		249-116	Screwless end stop	WAGO	904502	(AMB.S1)
-B1	1		NTC030WP00	PROBE NTC, IP68, WIRE 3m, -50/+105°C	CAREL	903060	&EFS=AUA+EC01/1.3
-B2	1		NTC030WP00	PROBE NTC, IP68, WIRE 3m, -50/+105°C	CAREL	903060	&EFS=AUA+EC01/1.4
-B3	1		NTC030WP00	PROBE NTC, IP68, WIRE 3m, -50/+105°C	CAREL	903060	&EFS=AUA+EC01/1.6
+ELM-DS	1		927206	GR DISPLAY TOUCH BLU-E CHILLER	CAREL	927206	&EFS=AUA+EC01/1.4
-F1	1		SSY6202-7	CIRCUIT BREAKER 6KA 2POL C2	Siemens	906346	&EFS=PWC+EC01/2.5
-F2	1		SSY6106-7	CIRCUIT BREAKER 6KA 1POL C6	Siemens	905434	&EFS=PWC+EC01/2.6
-F3	1		SSY6205-7	CIRCUIT BREAKER 6KA 2POL C0.5	Siemens	903660	&EFS=PWC+EC01/2.2
-G2	1		AKAS0036024012	DC/DC CONVERTER 24V/12V 3A	ELMAS	927063	&EFS=AUA+EC01/1.6
+EC01-GND	31			SCREW TC M5x10 ZN-ST 4.8	---	915741	(AMB.S1)
+EC01-GND_CB	1			SCREW TC M5x10 ZN-ST 4.8	---	915741	(AMB.S1)
+EC01-GND_DO	1			SCREW TE M8X25 ST-ZN	---	207930	(AMB.S1)
+EC01-GND_MP	1			SCREW TE M8X30 ST-ZN	---	206543	(AMB.S1)
-K1	1		3RT2028-1AC20	CONTACTOR,AC3:18,5KW 1NO+1NC 24V 50/60HZ	Siemens	920102	&EFS=AUA+EC01/2.2
-K1	1		3RH29111HA22	AUX. SWITCH BLOCK , 2NO+2NC COND. PATHS: 1NC, 1NC,	Siemens	921509	&EFS=AUA+EC01/2.2
-K1	1		3RA2921-1A	MAGN-SWITCH ACC SIEMENS 3RA2921-1A	Siemens	920187	&EFS=AUA+EC01/2.2
-K2	1		3RT2015-1AB01	CONTACTOR,AC3:3KW 1NO AC24V 50/60HZ	Siemens	919835	&EFS=AUA+EC01/2.6
-K2	1		3RA1921-1D	LINK MODULE F.3RV S00/S0, 3RT S00	Siemens	920186	&EFS=AUA+EC01/2.6

&EMB/1

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BILL OF MATERIAL

DRAWING NUMBER	EP22017	EPLAN Electric P8	2022.0.3
CABINET CODE	928225	3D REVISION	2LP8_CARTRIT_ST
			PAGES COUNTER
			NUMBER OF PAGES
&EPC	=	+	1

BILL OF MATERIALS



2LP8_RICKEL_20

DESIGNATION	AMOUNT	LENGTH	ARTICLE NUMBER	DESIGNATION 1	MANUFACTURER	INTERNAL NO	PAGE / PATH
-K4	1		3RT2016-1AB01	CONTACTOR,AC3:4KW 1NO AC24V 50/60HZ	Siemens	920015	&EFS=AUA+EC01/2.7
-K4	1		3RA1921-1D	LINK MODULE F.3RV S00/S0, 3RT S00	Siemens	920186	&EFS=AUA+EC01/2.7
-KA1	1		55.34.8.024.0040	MINIATURE GENERAL PURPOSE RELAY, 4 POLE, 7 A - AC (50/60 HZ) - 24 V	Finder	903668	&EFS=AUA+EC01/1.2
-KA1	1		94.74	SOCKET FOR 55.34 RELAY	Finder	903669	&EFS=AUA+EC01/1.2
-KG	1		3UG4511-1AP20	PHASE CONTROL RELAY	Siemens	917383	&EFS=PWC+EC01/2.7
-P1	1		UP3B00200TBM0	TERMOREG PROGRAM CAREL UP3B00200TBM0	CAREL	928216	&EMZ+EC01/1.0
-P1	1		UP3CON0M00	TERMOREG ACCESS CAREL UP3CON0M00	CAREL	928217	&EMZ+EC01/1.0
-P1	1		PCO1000WD0	PCOWEB - ETHERNET INTERFACE	CAREL	921648	&EMZ+EC01/1.0
-Q0	1		22003008	MANUALLY OPERATED AND MODULAR MULTIPOLAR LOAD BREAK SWITCHES	SOCOMEK	922908	&EFS=PWC+EC01/1.0
-Q0	1		1474 1111	RED KNOB TYPE S00	SOCOMEK	921673	&EFS=PWC+EC01/1.0
-Q0	1		1407 0532	OPERATING SHAFT 320mm	SOCOMEK	911759	&EFS=PWC+EC01/1.0
-Q0	1		2294 3009	3 POLE TERMINALS COVER 63...80	SOCOMEK	922909	&EFS=PWC+EC01/1.0
-Q0	1		2200 9009	GROUND POLE 63...80	SOCOMEK	925999	&EFS=PWC+EC01/1.0
-Q1	1		3RV2021-4DA15	CIRCUIT-BREAKER SCREW CONNECTION 25A	Siemens	920282	&EFS=PWC+EC01/1.3
-Q2	1		3RV2011-1EA15	CIRCUIT-BREAKER SCREW CONNECTION 4A	Siemens	919837	&EFS=PWC+EC01/1.5
-Q4	1		3RV2011-1GA15	CIRCUIT-BREAKER SCREW CONNECTION 6.3A	Siemens	920016	&EFS=PWC+EC01/1.7
-T1	1		TCN80000200.057	200VA 0-230-400-415-440-460-480/0-24	TECNOCABLAGGI	905560	&EFS=PWC+EC01/2.5
-TCONN	1		TCONN63000	TRANSMISSION BOARD FOR PGD DISPLAY	CAREL	911363	&EFS=AUA+EC01/1.5
U1	1		1058000	AX Compact enclosure, WHD: 600x800x250 mm, sheet steel	Rittal	1058000	(AMB.S1)
U2	1	0,545m		WIRING DUCT 40x80 PLASTIC 4X6	---	909700	(AMB.S1)
U3	1	0,545m		WIRING DUCT 40x80 PLASTIC 4X6	---	909700	(AMB.S1)
U4	1	0,425m		WIRING DUCT 40x80 PLASTIC 4X6	---	909700	(AMB.S1)
U5	1	0,325m	2313750	SZ Support rail to EN 60 715, version TS 35/7,5, L: 2000 mm	Rittal	2313750	(AMB.S1)
U6	1	0,325m		WIRING DUCT 40x80 PLASTIC 4X6	---	909700	(AMB.S1)
U8	1			STAND OFFS H Mx F L20 M6 ZN-ST	---	904235	(AMB.S1)
U9	1			STAND OFFS H Mx F L20 M6 ZN-ST	---	904235	(AMB.S1)
U12	1			STAND OFFS H Mx F L20 M6 ZN-ST	---	904235	(AMB.S1)
U13	1			STAND OFFS H Mx F L20 M6 ZN-ST	---	904235	(AMB.S1)

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CABINET CODE		928225		3LP8_CARTRIT_ST	
				PAGES COUNTER	
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&EPC		=		+	
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BILL OF MATERIALS



2LP8_RICKEL_20

DESIGNATION	AMOUNT	LENGTH	ARTICLE NUMBER	DESIGNATION 1	MANUFACTURER	INTERNAL NO	PAGE / PATH
U14	1	0,255m	2313750	SZ Support rail to EN 60 715, version TS 35/7,5, L: 2000 mm	Rittal	2313750	(AMB.S1)
U15	1	0,255m	2313750	SZ Support rail to EN 60 715, version TS 35/7,5, L: 2000 mm	Rittal	2313750	(AMB.S1)
-U50	1		249-116	Screwless end stop	WAGO	904502	(AMB.S1)
-U51	1		249-116	Screwless end stop	WAGO	904502	(AMB.S1)
U136	1		2564300	SZ Plastic gland plates, Size 4	Rittal	2564300	(AMB.S1)
U137	1			STAND OFFS H Fx F 19x25x5 PE	---	909454	(AMB.S1)
U138	1			STAND OFFS H Fx F 19x25x5 PE	---	909454	(AMB.S1)
U234	1			STAND OFFS H Mx F L20 M6 ZN-ST	---	904235	(AMB.S1)
U235	1			STAND OFFS H Mx F L20 M6 ZN-ST	---	904235	(AMB.S1)
U236	1	0,425m		DIN RAIL OMEGA 35x7,5	---	905499	(AMB.S1)
U300	1	0,325m		DIN RAIL OMEGA 35x7,5	---	905499	(AMB.S1)
-V1	1		3RT29261BB00	SURGE SUPPRESSOR, VARISTOR,	Siemens	919431	&EFS=AUA+EC01/2.2
-V2	1		3RT29161BB00	SURGE SUPPRESSOR, VARISTOR,	Siemens	919432	&EFS=AUA+EC01/2.6
-V4	1		3RT29161BB00	SURGE SUPPRESSOR, VARISTOR,	Siemens	919432	&EFS=AUA+EC01/2.8
-W0	1	6,7m	1119504	4G6mm² OIL RESISTANT UR	---	926262	&EFS=PWC+EC01/1.0
-W1	1	2m		4G4mm² OIL RESISTANT UR	---	926261	&EFS=PWC+EC01/1.3
-W2	1	2,7m		4G1,5mm² OIL RESISTANT UR	---	926163	&EFS=PWC+EC01/1.5
-W4	1	2m		4G1,5mm² OIL RESISTANT UR	---	926163	&EFS=PWC+EC01/1.7
-W8	1	1,4m		2X1mm² OIL RESISTANT UR	---	926161	&EFS=AUA+EC01/2.3
-W17	1	0,318m		2X0.75mm² SHIELDED OIL RESISTANT UR	---	926257	&EFS=AUA+EC01/1.4
-W34	1	5,8m	1119207	7G1mm² OIL RESISTANT UR	---	926164	&EFS=ISN+EC01/1.2
-W38	1	3m	S90CONN001	DISPLAY CABLE L=3M	CAREL	907125	&EFS=AUA+EC01/1.4
-W100	1	0,56m		CU BAR 12X3	---	909453	(AMB.S1)
-WQD	1		3RV1915-1BB	3-PHASE BUSBARS	Siemens	909357	&EFS=PWC+EC01/1.3
-X2	20		280-901	2-conductor through terminal block	WAGO	903680	
-X2	1		249-116	Screwless end stop	WAGO	904502	&EFS=AUA+EC01/2.3
-X2	1		280-309	End and intermediate plate	WAGO	904525	&EFS=AUA+EC01/2.3
-X3	2		280-901	2-conductor through terminal block	WAGO	903680	&EFS=PWC+EC01/2.2;&EFS=PWC+EC01/2.3

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CABINET CODE	928225	3D REVISION	19
&EPC		=	+
			20

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2LP8_RICKEL_20

DESIGNATION	AMOUNT	LENGTH	ARTICLE NUMBER	DESIGNATION 1	MANUFACTURER	INTERNAL NO	PAGE / PATH
-X3	1		280-309	End and intermediate plate	WAGO	904525	&EFS=PWC+EC01/2.2
	1		249-116	Screwless end stop	WAGO	904502	&EFS=PWC+EC01/2.3
-Z1	1		0475178281	FERRITE CABLE 21X21X39.4	FAIR-RITE	927281	&EFS=PWC+EC01/2.5
-Z_MIN_EL	20			SCREW TC FLAN 4.2X13	---	922277	&EFS=PWC+EC01/1.9
-Z_MIN_EL	26			SCREW TC M5x10 ZN-ST 4.8	---	915741	&EFS=PWC+EC01/1.9
-Z_MIN_EL	4			SCREW TCB M6x12 ZN-ST	---	903408	&EFS=PWC+EC01/1.9
-Z_MIN_EL	4			SCREW TCB M6x16 ZN-ST 8.8	---	903409	&EFS=PWC+EC01/1.9
-Z_MIN_EL	28			WASHER P 5,3-10 ZN-ST	---	903585	&EFS=PWC+EC01/1.9
-Z_MIN_EL	2			WASHER P 4,3-9 ZN-ST	---	200611	&EFS=PWC+EC01/1.9
-Z_MIN_EL	2			WASHER P 6,4-12 ZN-ST	---	200004	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1			WASHER TOOTH 4,3-8 ZN-ST	---	200144	&EFS=PWC+EC01/1.9
-Z_MIN_EL	28			WASHER TOOTH 5,3-10 ZN-ST	---	200206	&EFS=PWC+EC01/1.9
-Z_MIN_EL	9			WASHER TOOTH 6,4x11 ZN-ST	---	200294	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1			NUT E M5x4 6S ZN-ST	---	200202	&EFS=PWC+EC01/1.9
-Z_MIN_EL	4			NUT E M6x5 PG 6S ZN-ST	---	200295	&EFS=PWC+EC01/1.9
-Z_MIN_EL	2			STAND OFFS H Fx F 19x25x5 PE	---	909454	&EFS=PWC+EC01/1.9
-Z_MIN_EL	4			GASKET NYLON PA6.6 D12.5-6.4	---	201320	&EFS=PWC+EC01/1.9
-Z_MIN_EL	2			SCREW STEI M5x10 PG ZN-ST	---	915261	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1		SIT0A07	LABEL-SUP GENERIC 52X17	3M	907060	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1		SIT0V02	LABEL-SUP GLAS 52X17	3M	907062	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1		SI2K1550W	PRINT-LABEL 50X15 WHITE NO-FIX	3M	907057	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1		TCS95X100BK	SLEEVE HEATSHRINK CEMBRE TCS95X100BK	CEMBRE	904698	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1			SCREW TC M4X10 ZN-ST	---	909623	&EFS=PWC+EC01/1.9
-Z_MIN_EL	1		2595000	Cable conduit / SZ Cable conduit, ø 16 mm, L: 25 m	Rittal	923767	&EFS=PWC+EC01/1.9
-Z_MIN_EL	4			THREADED INSERT ETR M6x16 ZN-ST	---	903307	&EFS=PWC+EC01/1.9