

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer	1=delivery 2=supply
+01-95K4 +01/95.4:A	1	S7-1500, DI 32X24VDC BA SIMATICDI 32x24VDC BA	6ES7521-1BL10-0AA0 SIE.6ES7521-1BL10-0AA0	SIE	
+01-95O1 +01/95.1:A	1	Control panel, 24 VDC, 7 Inches PCT-Display, 1024x600, 2xEthernet, 1xRS232, 1xRS485, 1xCAN, 1xProfibus, 1xSD card slot	XV-303-70-C02-A00-1B ETN.XV-303-70-C02-A00-1B	ETN	1
+01-96K1 +01/96.1:A	1	S7-1500, DQ 16X24VDC/0.5A BA SIMATIC, S7-1500	6ES7522-1BH10-0AA0 SIE.6ES7522-1BH10-0AA0	SIE	
+01-96K2 +01/96.2:A	1	S7-1500, DQ 32X24VDC/0.5A BA SIMATIC, S7-1500	6ES7522-1BL10-0AA0 SIE.6ES7522-1BL10-0AA0	SIE	
+01-96K3 +01/96.3:A	1	S7-1500, AI 8XU/I/R/RTD	6ES7531-7QF00-0AB0 SIE.6ES7531-7QF00-0AB0	SIE	
+01-96K4 +01/96.4:A	1	S7-1500, AI 8XU/I/R/RTD	6ES7531-7QF00-0AB0 SIE.6ES7531-7QF00-0AB0	SIE	
+01-96K6	1	CPU 1511C-1 PN, 175 KB PROG, 1 MB DATA SIMATIC, S7-1500	6ES7511-1CK01-0AB0 SIE.6ES7511-1CK01-0AB0	SIE	
+01-97K3 +01/97.3:A	1	SCALANCE XB008 SCALANCE XB-000 unmanaged	6GK5008-0BA10-1AB2 SIE.6GK5008-0BA10-1AB2	SIE	
+01-109A2 +01/109.2:B	1	electronic expansion valve driver	EVD0000E50 CAR.EVD0000E50	CAR	
+01-109T4 +01/109.3:A	1	transformer 230/24AC / 35VA	TRADRFE240 CAR.TRADRFE240	CAR	
+01-109U1 +01/109.1:A	1	ultracap Module for EVD evolution	EVD0000UC0 CAR.EVD0000UC0	CAR	
+01-110K7 +01/110.7:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE	
+01-125F2 +01/125.2:A	1	Over current switch, 6A, 1p, C-Char, AC	FAZ-C6/1 ETN.FAZ-C6/1	ETN	
+01-125F2 +01/125.2:A	1	Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP	FAZ-XHIN11 ETN.FAZ-XHIN11	ETN	
+01-125K5 +01/125.5:D	1	Contact, 3p+1N/C, 3kW/400V/AC3	DILM7-01(230V50HZ,240V60HZ) ETN.DILM7-01(230V50HZ,240V60HZ)	ETN	
+01-125K7 +01/125.7:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE	
+01-126K3 +01/126.4:B	1	Relay, plug-in, 4 pole, mechanical indicator, 24 VAC	LZX:PT570524 SIE.LZXPT570524	SIE	
+01-126K3 +01/126.4:B	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE	

9

11

date	02.11.2022	KTI Balzheim	elektromatic peidel GmbH	Parts list cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Maçan - South of Spain K2. J44	AF-1220231F01-S	=	+ ASL	page 10 of 67
prep.	Herr Schmucker								
check.		Origin							
modification	date	name	norm	DIN/VDE					

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer	1=delivery 2=supply
+01-48K7 +01/48.7:D	1	Relay, plug-in, 2 pole, 12 A , mechanical indicator, 230 VAC	LZX:PT270730 SIE.LZXPT270730	SIE	
+01-48K7 +01/48.7:D	1	Relay retating bracket	LZS:PT17024 SIE.LZSPT17024	SIE	
+01-48K7 +01/48.7:D	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE	
+01-48K7 +01/48.7:D	1	Plug-in relay couplers 4W	LZS:PT78740 SIE.LZSPT78740	SIE	
+01-48Q1 +01/48.1:A	1	Motor-protective circuit-breaker, 3p, Ir=2.5-4A, screw connection	PKZM0-4 ETN.PKZM0-4	ETN	
+01-48Q1 +01/48.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NHI-E-10-PKZ0 ETN.NHI-E-10-PKZ0	ETN	
+01-48Q1 +01/48.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C RiLine60 3-polig	SV.9340310 RIT.9340310	RIT	
+01-49K4 +01/49.4:D	1	Contactora, 3p+1N/C, 11kW/400V/AC3	DILM25-01(230V50HZ,240V60HZ) ETN.DILM25-01(230V50HZ,240V60HZ)	ETN	
+01-49K5 +01/49.5:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE	
+01-49K6 +01/49.6:D	1	Relay, plug-in, 2 pole, 12 A , mechanical indicator, 230 VAC	LZX:PT270730 SIE.LZXPT270730	SIE	
+01-49K6 +01/49.6:D	1	Relay retating bracket	LZS:PT17024 SIE.LZSPT17024	SIE	
+01-49K6 +01/49.6:D	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE	
+01-49K6 +01/49.6:D	1	Plug-in relay couplers 4W	LZS:PT78740 SIE.LZSPT78740	SIE	
+01-49Q1 +01/49.1:A	1	Motor-protective circuit-breaker, 3p, Ir=10-16A, screw connection	PKZM0-16 ETN.PKZM0-16	ETN	
+01-49Q1 +01/49.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NHI-E-10-PKZ0 ETN.NHI-E-10-PKZ0	ETN	
+01-49Q1 +01/49.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C RiLine60 3-polig	SV.9340310 RIT.9340310	RIT	
+01-50K4 +01/50.4:D	1	Contactora, 3p+1N/C, 11kW/400V/AC3	DILM25-01(230V50HZ,240V60HZ) ETN.DILM25-01(230V50HZ,240V60HZ)	ETN	
+01-50K5 +01/50.5:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE	

date	02.11.2022	KTI Balzheim	elektromatic speidel GmbH	Parts list cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Maşa 6 - South of Spain K2 J44	AF-1220231F01-S	=	+ ASL	page 8
prep.									
modification	date	name	norm	DIN/VDE	Origin				

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer	1=delivery 2=supply
+01-35U1 +01/35.1:C	1	Variable speed drive - 7.5kW - 380...500V - 3 phase - compact	ATV320U75N4C SE.ATV320U75N4C	SE	
+01-35U1 +01/35.4:C	1	ProfiNet	VW3A3627 SE.VW3A3627	SE	
+01-35U1 +01/35.4:C	1	ATV320 Option module adapter	VW3A3600 SE.VW3A3600	SE	
+01-38K5 +01/38.5:D	1	Contactora, 3 pole, 380 V 400 V 3 kW, 1 NC, 24 V DC, DC operation, Push in terminals	DILM7-01(24VDC)-PI ETN.DILM7-01(24VDC)-PI	ETN	
+01-38Q1 +01/38.1:A	1	Motor-protective circuit-breaker, 3p, Ir=1.6-2.5A, screw connection	PKZM0-2,5 ETN.PKZM0-2,5	ETN	
+01-38Q1 +01/38.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NHI-E-10-PKZ0 ETN.NHI-E-10-PKZ0	ETN	
+01-38Q1 +01/38.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C RiLine60 3-polig	SV.9340310 RIT.9340310	RIT	
+01-41K5 +01/41.5:D	1	Contactora, 3p+1N/C, 5.5kW/400V/AC3	DILM12-01(24VDC) ETN.DILM12-01(24VDC)	ETN	
+01-41Q1 +01/41.1:A	1	Motor-protective circuit-breaker, 3p, Ir=6.3-10A, screw connection	PKZM0-10 ETN.PKZM0-10	ETN	
+01-41Q1 +01/41.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NHI-E-10-PKZ0 ETN.NHI-E-10-PKZ0	ETN	
+01-41Q1 +01/41.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C RiLine60 3-polig	SV.9340310 RIT.9340310	RIT	
+01-45K5 +01/45.5:D	1	Contactora, 3p+1N/C, 5.5kW/400V/AC3	DILM12-01(24VDC) ETN.DILM12-01(24VDC)	ETN	
+01-45K7 +01/45.7:D	1	Relay, plug-in, 2 pole, 12 A , mechanical indicator, 230 VAC	LZX:PT270730 SIE.LZXPT270730	SIE	
+01-45K7 +01/45.7:D	1	Relay retating bracket	LZS:PT17024 SIE.LZSPT17024	SIE	
+01-45K7 +01/45.7:D	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE	
+01-45K7 +01/45.7:D	1	Plug-in relay couplers 4W	LZS:PT78740 SIE.LZSPT78740	SIE	
+01-45Q1 +01/45.1:A	1	Motor-protective circuit-breaker, 3p, Ir=6.3-10A, screw connection	PKZM0-10 ETN.PKZM0-10	ETN	
+01-45Q1 +01/45.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NHI-E-10-PKZ0 ETN.NHI-E-10-PKZ0	ETN	

5

7

date	02.11.2022	KTI	elektromatic	Parts list	Masa 6 - South of Spain	AF-1220231F01-S	=
prep.		Balzheim	speidel GmbH	cold water plant	K2 J44	AF-1220231F01-S	+ ASL
check.	Herr Schmucker	Origin		CCWP.4-458-15K-50Hz-R134a-evi			
norm	DIN/VDE						
modification	date	name					page 6
							of 67

1

2

3

4

5

6


7

8

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer	1=delivery 2=supply
+01-9S7 +01/9.7:B	1	Emergency-stop pushbutton, non-illuminated	M22-PV ETN.M22-PV	ETN	
+01-9S7 +01/9.7:B	1	Contact element, 1N/C, Front fixing	M22-AK01 MOE.M22-AK01	MOE	
+01-9S7 +01/9.7:B	1	Not-Halt Schild, gelb, viersprachig (D,GB,F,I)	M22-XBK11 ETN.M22-XBK11	ETN	
+01-10S3 +01/10.3:B	1	Changeoverswitches, Contacts: 2, 20 A, front plate: HAND-0-AUTO, 45 °, maintained, centre mounting	T0-1-15431/EZ ETN.T0-1-15431/EZ	ETN	
+01-24F4 +01/24.4:C	1	Over current switch, 6A, 1p, B-Char, AC	FAZ-B6/1 ETN.FAZ-B6/1	ETN	
+01-24F4 +01/24.4:C	1	Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP	FAZ-XHIN11 ETN.FAZ-XHIN11	ETN	
+01-24K6 +01/24.6:D	1	Relay, plug-in, 2 pole, 12 A , mechanical indicator, 230 VAC	LZX:PT270730 SIE.LZXPT270730	SIE	
+01-24K6 +01/24.6:D	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE	
+01-24K6 +01/24.6:D	1	Plug-in relay couplers 4W	LZS:PT78740 SIE.LZSPT78740	SIE	
+01-24K6 +01/24.6:D	1	Relay retating bracket	LZS:PT17024 SIE.LZSPT17024	SIE	
+01-24K7 +01/24.7:D	1	Contactora, 3p, 75kW/400V/AC3	DILM150(RAC240) ETN.DILM150(RAC240)	ETN	
+01-24K7 +01/24.7:D	1	Auxiliary contact module, 2N/O+2N/C	DILM150-XHI22 ETN.DILM150-XHI22	ETN	
+01-24K8 +01/24.8:D	1	Contactora, 3p, 75kW/400V/AC3	DILM150(RAC240) ETN.DILM150(RAC240)	ETN	
+01-24K8 +01/24.8:D	1	Auxiliary contact module, 1N/O+1N/C	DILM150-XHI11 ETN.DILM150-XHI11	ETN	
+01-24Q1 +01/24.1:A	1	Circuit-breaker, 3p, 125A	NZMB2-M125 ETN.NZMB2-M125	ETN	
+01-24Q1 +01/24.1:A	1	Contact element, 1N/O, front mount, screw connection	M22-AK10 ETN.M22-AK10	ETN	
+01-24Q1 +01/24.1:A	2	Protection against contact with a finger, IP2X, 3p, size 2	NZM2-XIPK ETN.NZM2-XIPK	ETN	
+01-24Q1 +01/24.1:A	1	Circuit-breaker component adaptor SV Circuit-breaker component adaptor, 250 A, 690 V, 3-pole, cable outlet bottom, with connection straps	SV.9345610 RIT.9345610	RIT	

3		date 02.11.2022		KTI Balzheim		elektromatic speidel GmbH		Parts list cold water plant		Masa 6 - South of Spain		AF-1220231F01-S		= + ASL		page 4	
modification		date		name		norm DIN/VE		Origin		Kz J44		elektromatic speidel 		AF-1220231F01-S		of 67	
1		2		3		4		5		6		7		8			

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer	1=delivery 2=supply
+01-X2	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-X3	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-X4	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-X5	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-X6	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-X8	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-XF	1	Terminal strip (equipped according to terminal diagram)	Allg. Klemmleiste Allg. Klemmleiste	ELEKTROMATIC	
+01-5E5 +01/5.5:C	1	LED light with motion dedector 230 V AC	2LED13UDIR IBB.2LED13UDIR	IBB	
+01-5E7 +01/5.7:D	1	Filter Fan, size 4 (224 x 224) mm Filtr fan	7F.02.0.000.4000 FIN.7F.02.0.000.4000	FIN	
+01-5E7 +01/5.7:D	1	Filtr fan Filter Fan, AC (50/60Hz) - 230 V - 250 mc/h, size 4 (224 x 224) mm	7F.20.8.230.4250 FIN.7F.20.8.230.4250	FIN	
+01-5F5 +01/5.5:B	1	RCD/MCB comb. switch, 16A, 30mA, miniature circuit-br. type B trip characteristic, 1-phase+N, residual current circuit-br. trip	FRBMM-B16/1N/003-A ETN.FRBMM-B16/1N/003-A	ETN	
+01-5F5 +01/5.5:B	1	Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP	FAZ-XHIN11 ETN.FAZ-XHIN11	ETN	
+01-5F7 +01/5.7:B	1	Over current switch, 6A, 1p, B-Char, AC	FAZ-B6/1 ETN.FAZ-B6/1	ETN	
+01-5F7 +01/5.7:B	1	Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP	FAZ-XHIN11 ETN.FAZ-XHIN11	ETN	
+01-5Q1 +01/5.1:B	1	Switch-disconnector 3p, 400A	PN3-400 ETN.PN3-400	ETN	
+01-5Q1 +01/5.1:B	1	Main switch assembly kit, handle red, size 3	NZM3-XHBR ETN.NZM3-XHBR	ETN	
+01-5Q1 +01/5.1:B	1	Box terminal, 3p, up to 630 A 1 x 35 - 240; 2 x 16 - 120	NZM3-XKC ETN.NZM3-XKC	ETN	
+01-5Q2 +01/5.2:B	1	Motor-protective circuit-breaker, 3p, Ir=10-16A, screw connection	PKZM4-16 ETN.PKZM4-16	ETN	

1

3

modification	date	name	norm	date	02.11.2022	prep.	KTI Balzheim	check.	Herr Schmucker	Origin	elektromatic speidel GmbH	Parts list cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Masa 6 - South of Spain KZ J44	AF-1220231F01-S	= + ASL	page of	2 67

1

2

3

4

5

6

7

8

Terminal strip

terminal strip
= +01-XF

cable marking

cable marking

cable type

cable type

target external

connection

terminal marking

bridge

target internal

connection

page/path

material type

-X4	4:1	1		-X4	1:1	/25.7:A	PT 4-HESILED 24 (
-X4	6:1	2	┌	-35Q2	1.53	/25.8:A	PT 4-HESILED 24 (
-X4	11:1	3		-49K6	11	/49.8:A	PT 4-HESILED 24 (
-X4	13:1	4		-50K6	11	/50.8:A	PT 4-HESILED 24 (
-X4	15:1	5	┌			/85.4:A	PT 4-HESILED 24 (
-X4	17:1	6	┌			/85.6:A	PT 4-HESILED 24 (
-X4	19:1	7	┌			/85.7:A	PT 4-HESILED 24 (
-X4	22:1	8	┌	-92F2	13	/85.8:A	PT 4-HESILED 24 (
-109A2	G	9		-109T4		/109.3:A	PT 4-HESILED 24 (
-X8	2:1	10		-126T1		/126.2:B	PT 4-HESILED 24 (

terminal total

10

+ASL/1

10

modification	date	name	norm	DIN/VDE	Origin	date	02.11.2022	prep.		KTI Balzheim	elektromatic speidel GmbH	Terminal diagram : =+01-XF cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Masa 6 - South of Spain K2 J44	AF-1220231F01-S	= + KLP	elektromatic speidel	AF-1220231F01-S	page of	11 67
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Terminal strip

terminal strip
= +01-X6

cable marking	cable type	target external	connection	terminal marking	bridge	target internal	connection	cable type	page/path	material type
+10-26B1				1	.	-96K3	-X10:10		/26.1:B	ST 1,5
+10-26B1				2	.	-96K3	-X10:29		/26.1:B	ST 1,5
				3	.				/26.2:B	ST 1,5
				S					/26.2:B	
+10-85B3				4	.	-96K4	-X10:5		/85.2:D	ST 1,5
+10-85B3				5	.	-96K4	-X10:6		/85.3:D	ST 1,5
				6	.				/85.3:D	ST 1,5
				S					/85.3:D	
+10-85B3.1				7	.	-96K4	-X10:7		/85.3:D	ST 1,5
+10-85B3.1				8	.	-96K4	-X10:8		/85.3:D	ST 1,5
				9	.				/85.4:D	ST 1,5
				S					/85.4:D	
+10-85B5				10	.	-96K4	-X10:11		/85.5:D	ST 1,5
+10-85B5				11	.	-96K4	-X10:12		/85.5:D	ST 1,5
				12	.				/85.6:D	ST 1,5
				S					/85.6:D	
+10-92B8				13	.	-96K3	-X10:7		/92.8:B	ST 1,5
+10-92B8				14	.	-96K3	-X10:8		/92.8:B	ST 1,5
				15	.				/92.8:B	ST 1,5
				S					/92.8:B	
+10-109Y6			1	16	.	-109A2	1		/109.6:D	ST 1,5
+10-109Y6			1	17	.	-109A2	2		/109.7:D	ST 1,5
+10-109Y6			1	18	.	-109A2	3		/109.7:D	ST 1,5
+10-109Y6			1	19	.	-109A2	4		/109.7:D	ST 1,5
				S					/109.7:D	

terminal total 25

Terminal strip

terminal strip
= +01-X3

A	cable marking	terminal strip = +01-X3					cable marking	page/path	material type
		cable type	target external	connection	terminal marking	bridge			
			+10-24F5	L1	1	-25K3	12	/24.5:C	PT 1,5/S-TWIN
			+10-24F5	N	2	-8T1	6	/24.5:C	PT 1,5/S-TWIN
			+10-24F5	PE	PE			/24.5:C	PT 1,5/S-TWIN-PE
			+10-24F5	12	3			/24.5:C	PT 1,5/S-TWIN
			+10-24F5	14	4	-24K6	A1	/24.6:C	PT 1,5/S-TWIN
			+10-25F6.1		5	-25K3	11	/25.6:A	PT 1,5/S-TWIN
			+10-25F6.1		6	-25K6	A1	/25.6:B	PT 1,5/S-TWIN
					PE			/25.6:B	PT 1,5/S-TWIN-PE
			-45Q1		7	-XV1	13	/45.7:A	PT 1,5/S-TWIN
			-45Q1		8	-45K7	A1	/45.7:B	PT 1,5/S-TWIN
					PE			/45.7:B	PT 1,5/S-TWIN-PE
			-46Q1		9			/46.7:A	PT 1,5/S-TWIN
			-46Q1		10	-46K7	A1	/46.7:B	PT 1,5/S-TWIN
					PE			/46.7:B	PT 1,5/S-TWIN-PE
			-47Q1		11			/47.7:A	PT 1,5/S-TWIN
			-47Q1		12	-47K7	A1	/47.7:B	PT 1,5/S-TWIN
					PE			/47.7:B	PT 1,5/S-TWIN-PE
			-48Q1		13	-49K5	11	/48.7:A	PT 1,5/S-TWIN
			-48Q1		14	-48K7	A1	/48.7:B	PT 1,5/S-TWIN
					PE			/48.7:B	PT 1,5/S-TWIN-PE
			-49Q1		15	-49K5	11	/49.6:A	PT 1,5/S-TWIN
			-49Q1		16	-49K6	A1	/49.6:B	PT 1,5/S-TWIN
					PE			/49.6:B	PT 1,5/S-TWIN-PE
			-50Q1		17	-50K5	11	/50.6:A	PT 1,5/S-TWIN
			-50Q1		18	-50K6	A1	/50.6:B	PT 1,5/S-TWIN
					PE			/50.6:B	PT 1,5/S-TWIN-PE
			+10-84Y3	1	19	-84K7	14	/84.3:D	PT 1,5/S-TWIN
					20	+10-84Y3	4	/84.3:D	PT 1,5/S-TWIN
			+10-84Y3	3	21	-84K7	11	/84.3:D	PT 1,5/S-TWIN
			-50K6	A2	22	+10-84Y3	2	/84.3:D	PT 1,5/S-TWIN
					PE			/84.3:D	PT 1,5/S-TWIN-PE
			+10-94H1	1	23	-94K5	14	/94.1:D	PT 1,5/S-TWIN
					24	+10-94H1	2	/94.1:D	PT 1,5/S-TWIN
					PE			/94.2:D	PT 1,5/S-TWIN-PE
			+10-94H2		25	-94K6	14	/94.2:D	PT 1,5/S-TWIN

terminal total 37

4			date	02.11.2022	KTI Balzheim	elektromatic speidel GmbH	Terminal diagram : = +01-X3 cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Mas... - South of Spain K2... 44	AF-1220231F01-S	= + KLP	elektromatic speidel	AF-1220231F01-S	page	5
modification	date	name	norm	DIN/VDE									Origin	of

Terminal strip

terminal strip
= +01-X1

cable marking

cable marking

cable type

cable type

target external

connection

terminal marking

bridge

target internal

connection

page/path

material type

+10-50M2	U	28	.	-50K4	2	/50.1:E	PTI 4
+10-50M2	V	29	.	-50K4	4	/50.2:E	PTI 4
+10-50M2	W	30	.	-50K4	6	/50.2:E	PTI 4
+10-50M2	PE	PE				/50.2:E	PTI 4-PE
+10-92M2	1	31	.	-92K7	2	/92.2:D	PTI 4
+10-92M2	2	N	.	-X0	N1:1	/92.2:D	PTN 4
+10-92M2	PE	PE		-9501	PE	/92.2:D	PTI 4-PE

terminal total

42

2

modification	date	name	date	02.11.2022	check	Herr Schmucker	norm	DIN/VDE	Origin	KTi Balzheim	elektromatic speidel GmbH	Terminal diagram : =+01-X1 cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Masca-6 - South of Spain K2 J44	AF-1220231F01-S	elektromatic speidel	AF-1220231F01-S	= + KLP	page of	3 67
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Terminal strip

terminal strip
= +01-X0

cable marking

cable marking

cable type

cable type

target external

connection

terminal marking

bridge

target internal

connection

page/path

material type



terminal total

22

+01/126

date	02.11.2022
prep.	
check.	Herr Schmucker
norm	DIN/VDE
name	
date	
modification	

KT
Balzheim

elektromatic
speidel GmbH

Terminal diagram : =+01-X0
cold water plant
CCWP.4-458-15K-50Hz-R134a-evi

Masa 6 - South of Spain
Kz J44

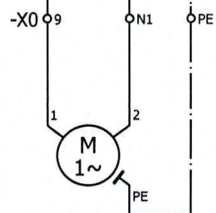
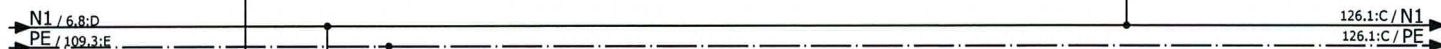
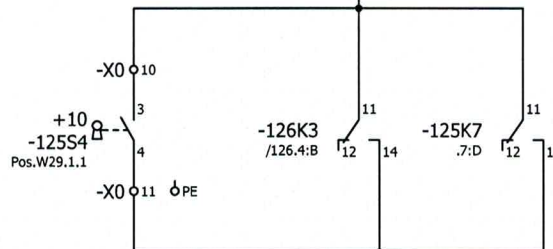
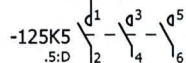
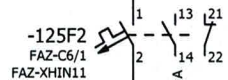
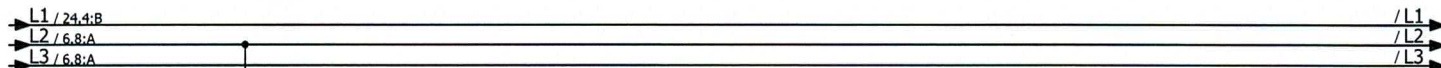
AF-1220231F01-S

elektromatic
speidel

AF-1220231F01-S

=
+ KLP

page
of

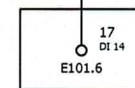
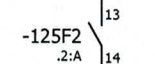


+10
-125M2
230VAC 0,27KW 1,2A
Pos.W29.1

exhaust fan
machinery room

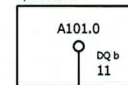
DILM7-01(230V50HZ,240V60HZ)

- 1 2 .2:C
- 3 4 .2:C
- 5 6 .2:C
- 21 22 /9.4:C

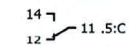


-95K3
/98.5:D

-96K1
/100.5:C



LZS:RT3A4L24



110

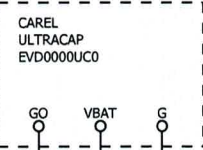
126

date 02.11.2022		KTI Balzheim	elektromatic speidel GmbH	exhaust fan cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Masa.6 - South of Spain Kz J44	AF-1220231F01-S	= +01	page 125 of 67
preparation	check. Herr Schmucker							
modification	date	name	norm DIN/VDE	Origin		elektromatic speidel	AF-1220231F01-S	

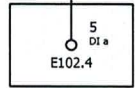
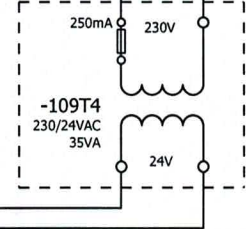
TO / 94.8:E
 RO / 94.8:A
 8F7 / 97.8:E

/TO
 /RO
 125.7:A / 8F7

-109U1

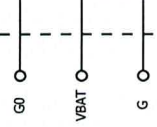


-XF 2 A



-95K4 /99.4:B

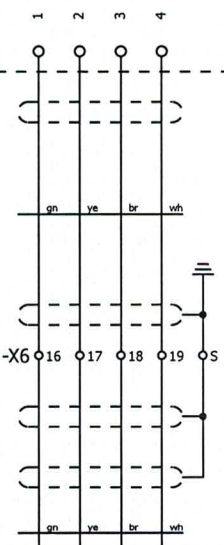
-109A2



CAREL
 EVD evolution SINGLE
 EVD0000E50

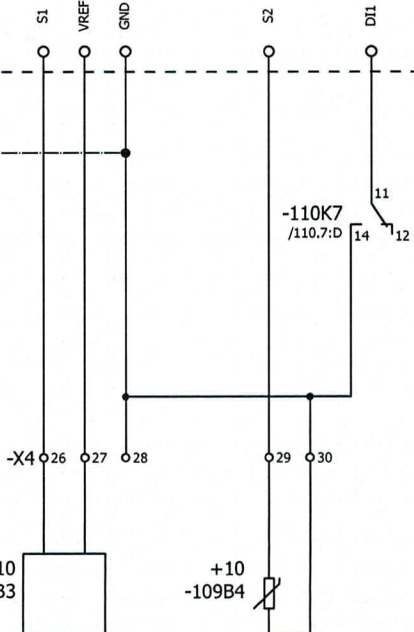


VALVE A



PE / 97.8:E

125.1:D / PE



suction pressure
 expansions valve
 Pos.W8.16.5

temperature sensor
 expansions valve
 Pos.W8.16.4

solenoid valve
 evaporator W 13.2
 Pos.Pos.W8.16

104

110

modification	date	name	date	02.11.2022	KTi Balzheim	elektromatic speidel GmbH	expansions valve W8.16 cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Mas... - South of Spain K2... 44	AF-1220231F01-S elektromatic speidel	= + 01	page of	109 67
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A

B

C

D

E

F

A

B

C

D

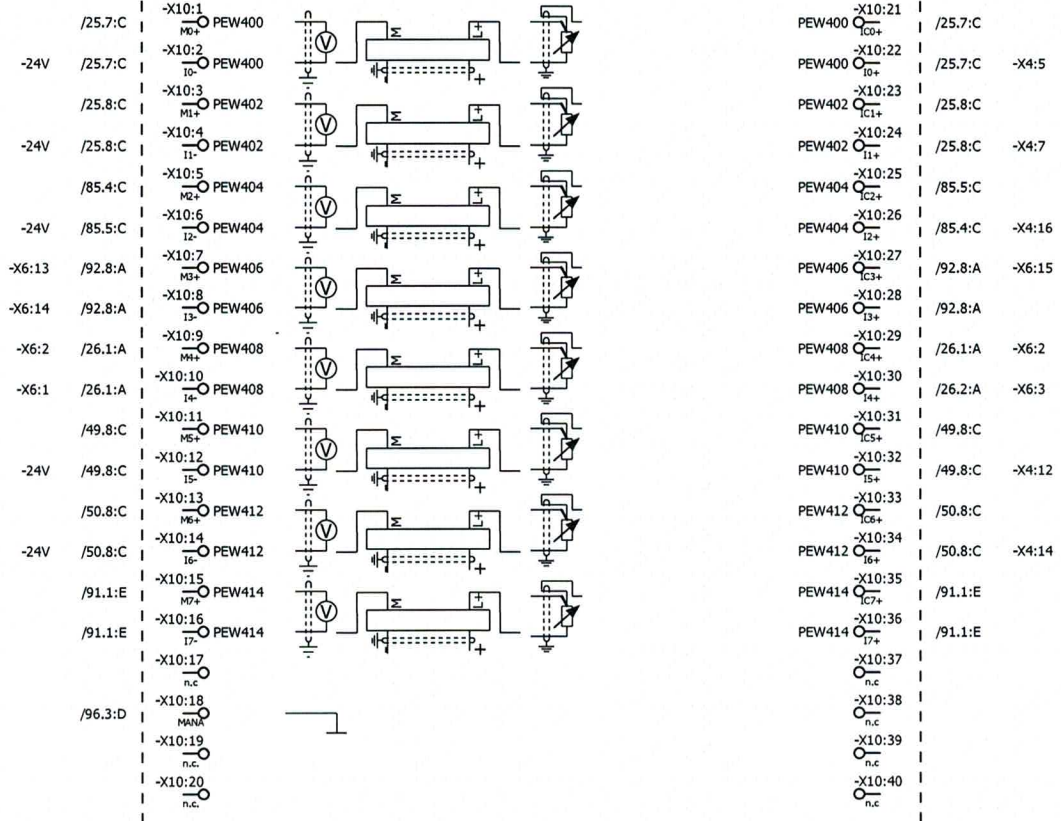
E

F

-96K3
/96.3:A

S7-1500
AI 8xU/I/RTD/TC ST

SIEMENS

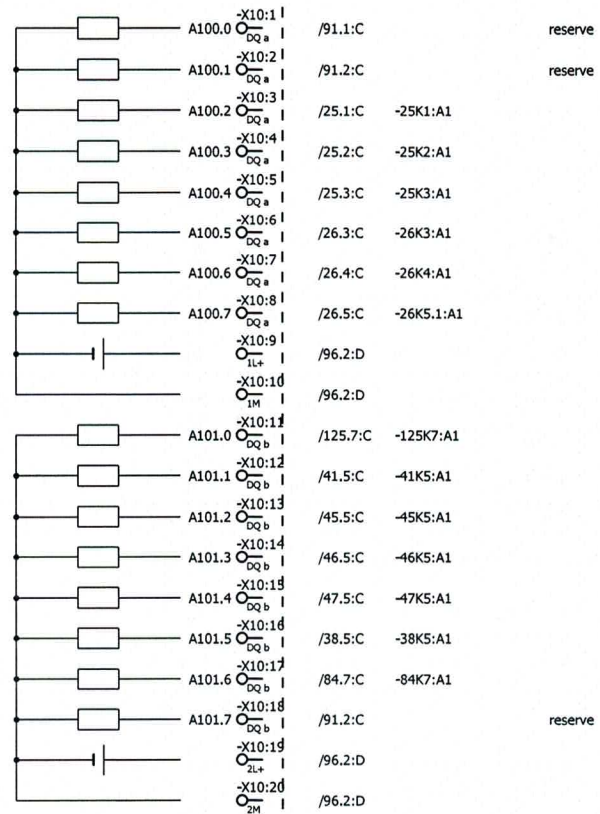


6ES7531-7QF00-0AB0

modification		date	name	norm	DIN/VDE	Origin	KTI Balzheim elektromatic speidel GmbH		PLC overview cold water plant CCWP.4-458-15K-50Hz-R134a-evi		Masa 6 - South of Spain Kz J44		AF-1220231F01-S elektromatic speidel		AF-1220231F01-S = + 01		page 103 of 67		
1		02.11.2022																	

-96K1
/96.1:A

S7-1500 SIEMENS
DQ 16x24VDC/0.5A BA



6ES7522-1BH10-0AA0

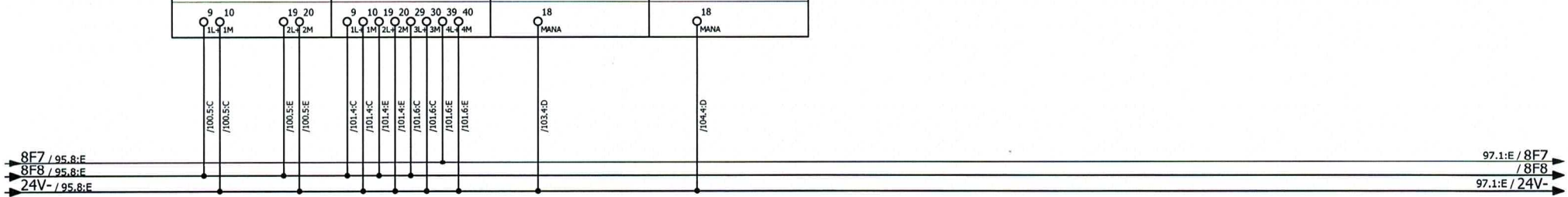
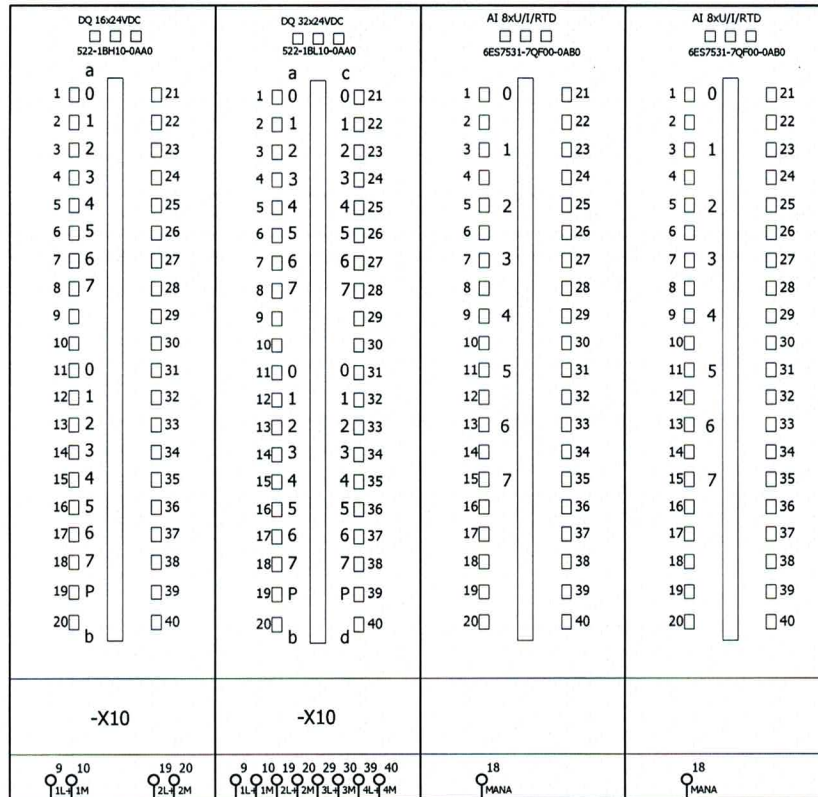
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6ES7522-1BH10-0AA0
-96K1

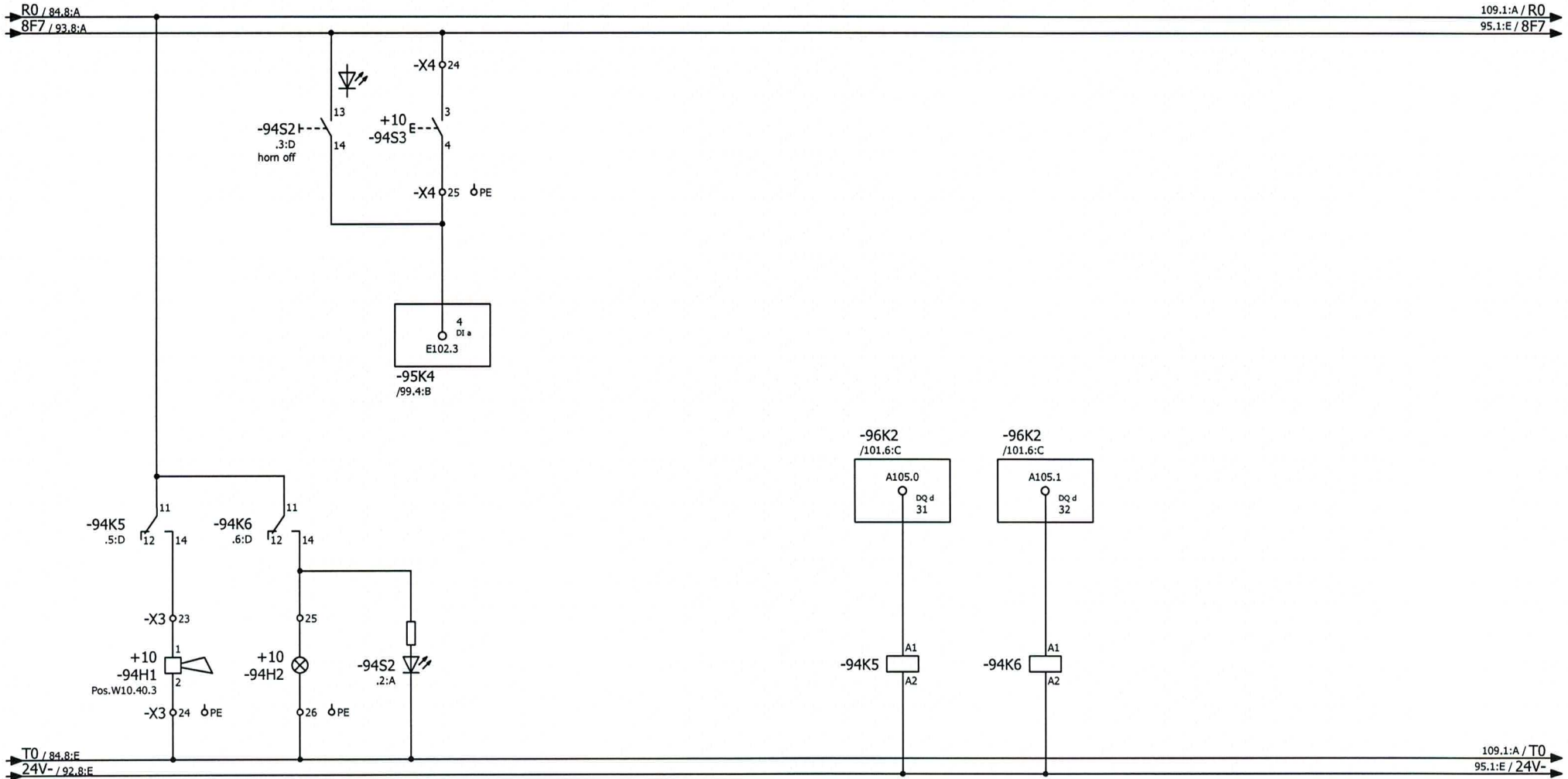
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-96K2

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-96K3

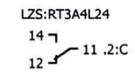
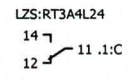
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-96K4



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prep.										
check.	Herr Schmucker									
norm	DIN/VDE									
modification	date	name								



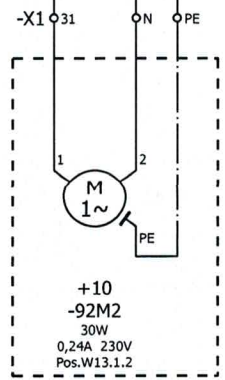
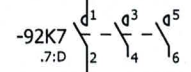
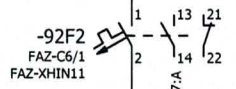
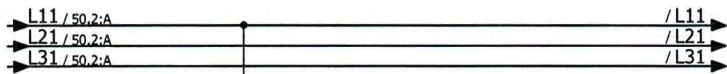
plant blocked



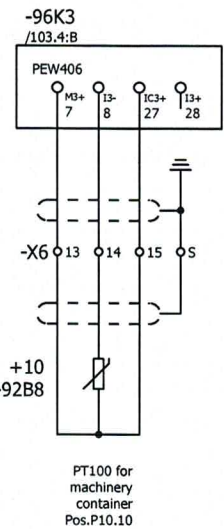
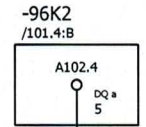
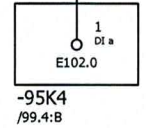
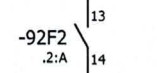
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95

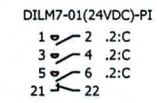
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modification	date	name	norm								DIN/VDE	Origin	of	67
1														



air cooler
in the machinery container



PT100 for
machinery
container
Pos.P10.10

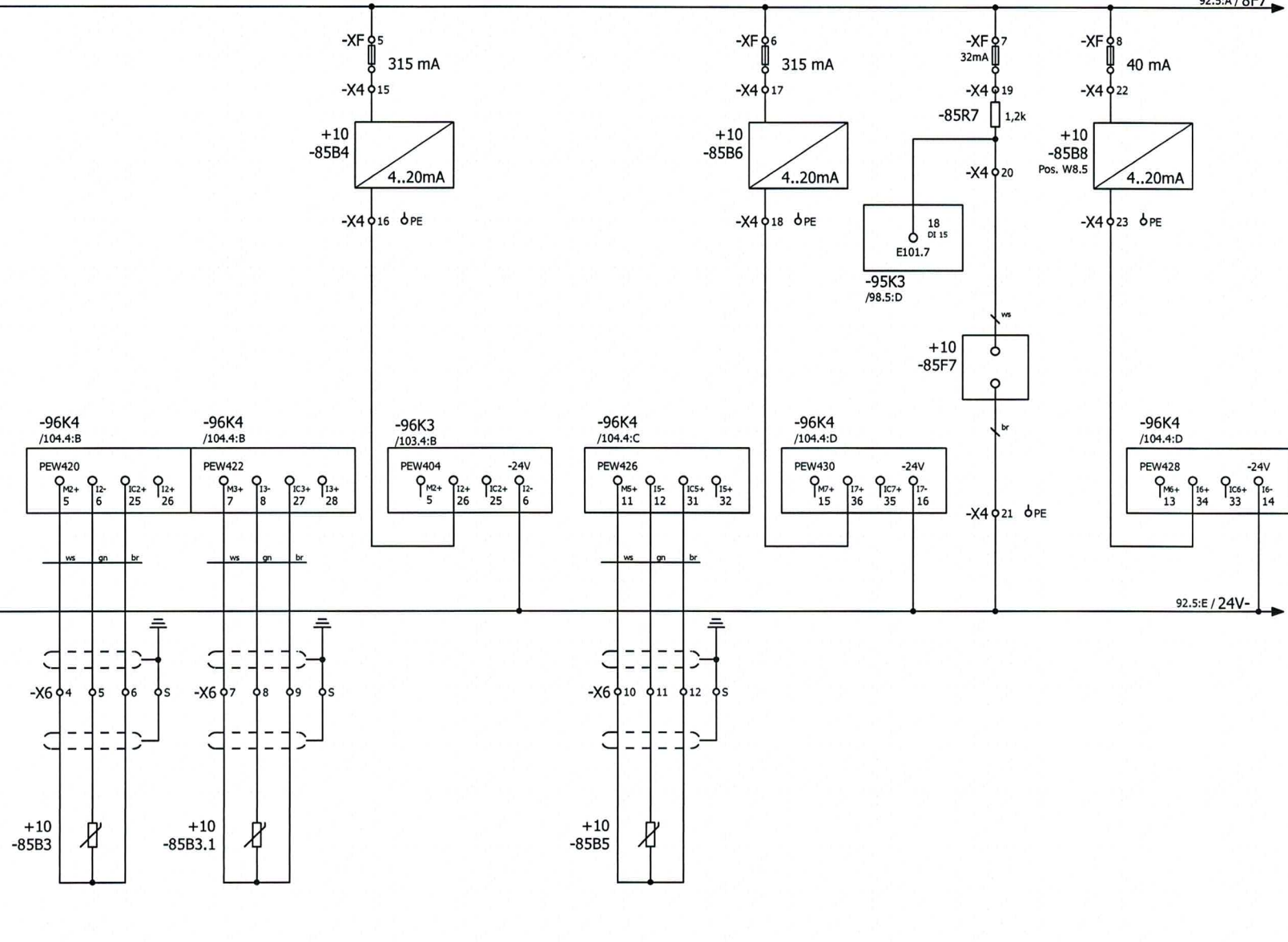


air cooler in the
machinery container

91		date 02.11.2022		KTI Balzheim		elektromatic speidel GmbH		air cooler cold water plant		Masa 6 - South of Spain		AF-1220231F01-S		93	
		prep.													
		check. Herr Schmucker													
modification		date		name		norm DIN/VDE		Origin		CCWP.4-458-15K-50Hz-R134a-evi		K22 I4		AF-1220231F01-S	
												elektromatic speidel		page 92 of 67	

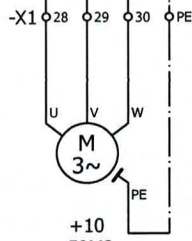
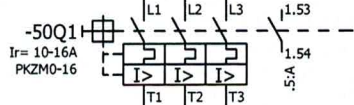
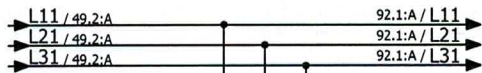
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24V- / 84.8:E 92.5:E / 24V-



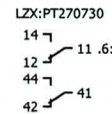
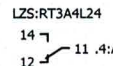
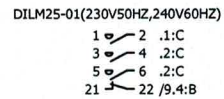
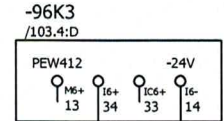
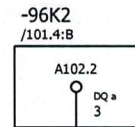
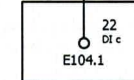
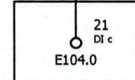
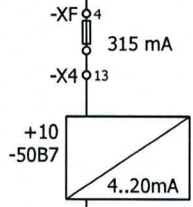
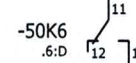
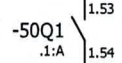
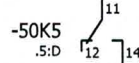
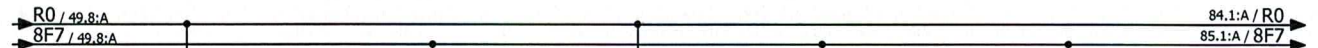
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84			date 02.11.2022	KTI Balzheim	elektromatic speidel GmbH	CCWP control cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Maşa 6 - South of Spain K2 J44	AF-1220231F01-S	=	+ 01	page 85
modification	date	name	check. Herr Schmucker	norm DIN/VDE	Origin			elektromatic speidel	AF-1220231F01-S		of 67



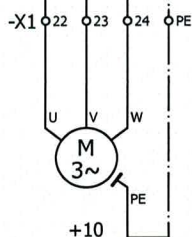
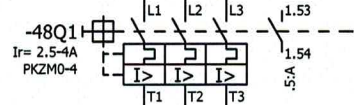
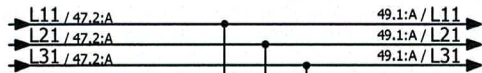
+10
-50M2
7,5KW 14,10A
Pos.W19.12

water pump basin 2



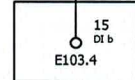
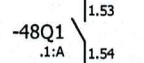
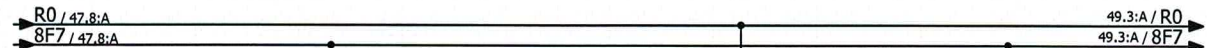
water demand
warm water basin 2

modification	date	name	norm	date	02.11.2022	preparation	KTI Balzheim	manufacturer	elektromatic speidel GmbH	project	water pump basin 2 cold water plant CCWP.4-458-15K-50Hz-R134a-evi	location	Masa 6 - South of Spain K2. 44	part number	AF-1220231F01-S	revision	+ 01	page	50
			DIN/VDE			check	Herr Schmucker								elektromatic speidel			of	67

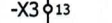
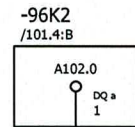


+10
-48M2
3,14KW 5,37A
Pos.W19.10

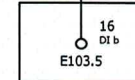
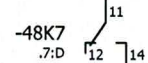
water pump cold water batching plant



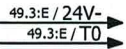
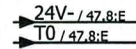
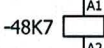
-95K4
/99.4:D



-X3 14 PE



-95K4
/99.4:D



DILM9-01(24VDC)
1 2 .1:C
3 4 .2:C
5 6 .2:C
21 22 /9.4:B

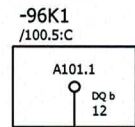
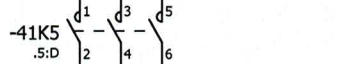
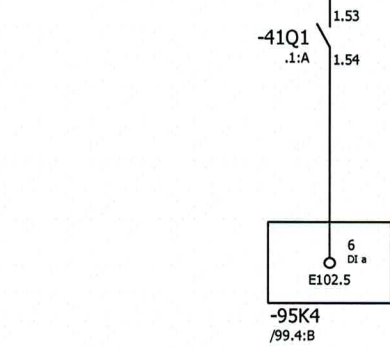
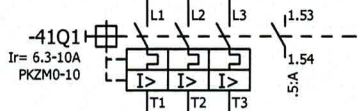
LZX:PTZ70730
14 11 .8:A
12 44
42 41

water demand
cold water batching plant

date	02.11.2022	KTJ	elektromatic peidel GmbH	water pump cold water batching plant cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Mas-6 - South of Spain K2. J44	AF-1220231F01-S	=	+ 01	page of					
prep.		Balzheim												
check.	Herr Schmucker	Origin												
modification		name	norm	DIN/VDE		elektromatic speidel	AF-1220231F01-S		48 67					

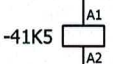
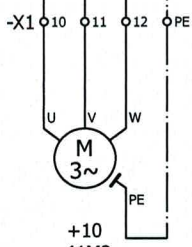
L11 / 38.2:A
 L21 / 38.2:A
 L31 / 38.2:A

8F7 / 38.8:A
 45.4:A / 8F7



PE / 38.2:D
 45.1:D / PE

24V- / 38.8:E
 45.4:E / 24V-



DILM12-01(24VDC)
 1 2 .1:C
 3 4 .2:C
 5 6 .2:C
 21 22 /9.4:C

+10
 -41M2
 4,0KW 7,62A
 Pos.W19.3

water pump subcooling

date	02.11.2022
prep.	
check.	Herr Schmucker
norm	DIN/VDE
modification	date
name	

Origin	KTI Balzheim
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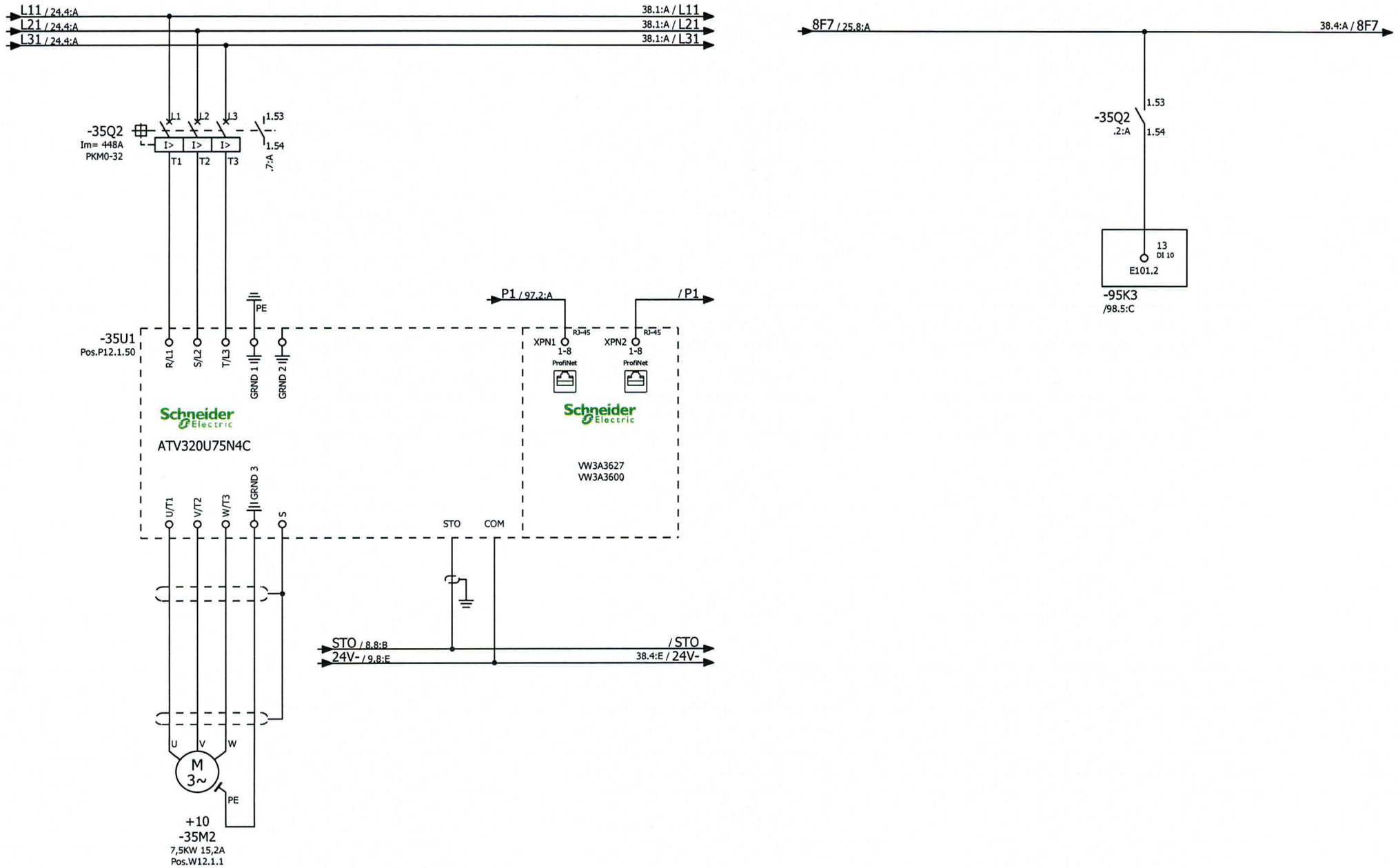
elektromatic peidel GmbH

water pump subcooling cold water plant CCWP.4-458-15K-50Hz-R134a-evi
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Mas-a-6 - South of Spain K2. J44

AF-1220231F01-S elektromatic speidel
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AF-1220231F01-S	page 41 of 67
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fan motor of evaporative condenser

27

38

		date	02.11.2022	KTI Balzheim	elektromatic speidel GmbH	evaporative condenser FU cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Mas ^a -6 - South of Spain K2. J44	AF-1220231F01-S	elektromatic speidel	AF-1220231F01-S	page of	35 67
		prep.										
modification	date	name	Herr Schmucker									
		norm	DIN/VDE	Origin								

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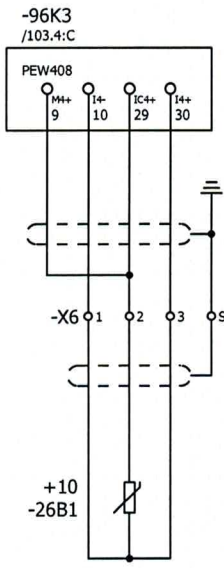
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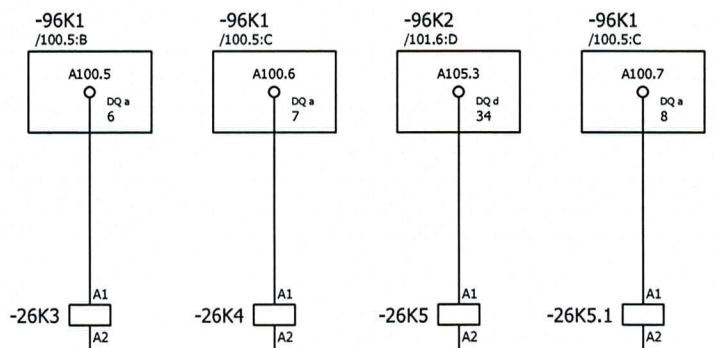
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oil temperature W10.8.1



PLC-RSC- 24DC/ 1/ACT 13 14 /27.2:A

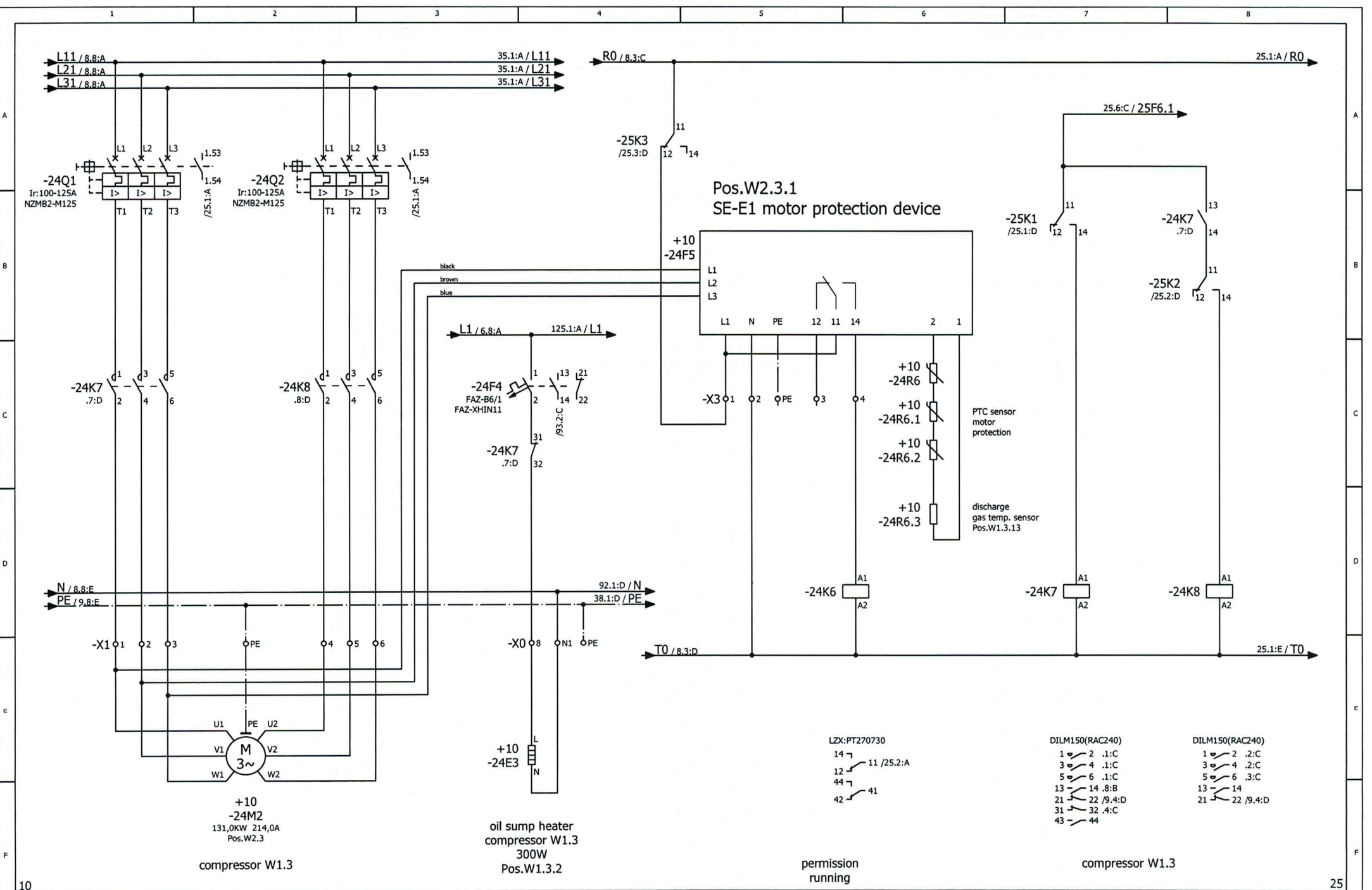
PLC-RSC- 24DC/ 1/ACT 13 14 /27.3:A

PLC-RSC- 24DC/ 1/ACT 13 14 /27.4:A

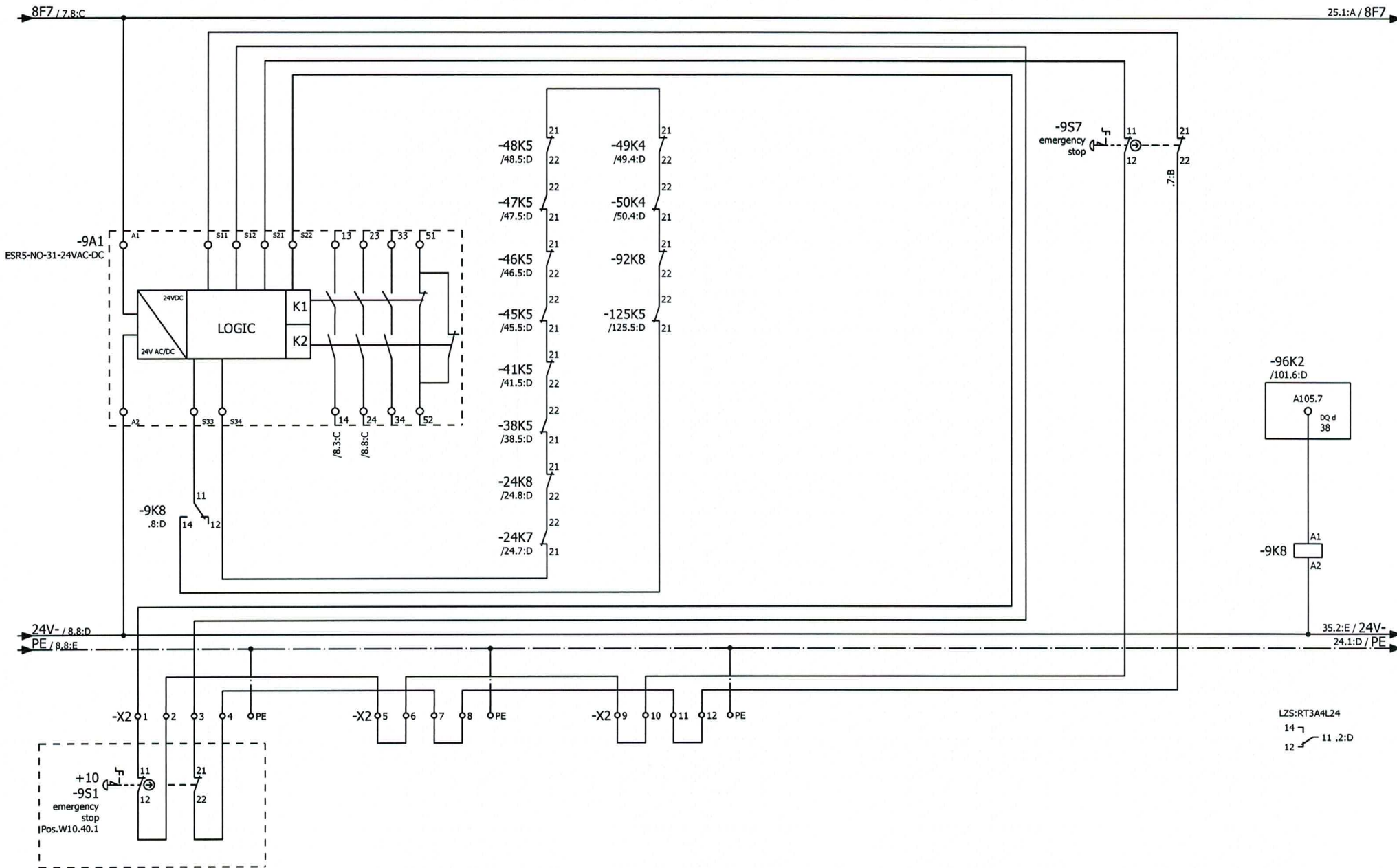
PLC-RSC- 24DC/ 1/ACT 13 14 /27.5:A

compressor W1.3

25		date 02.11.2022		KTI Balzheim		elektromatic speidel GmbH		compressor W1.3 cold water plant CCWP.4-458-15K-50Hz-R134a-evi		Masa 6 - South of Spain K2 J44		AF-1220231F01-S		27	
modification		date		name		norm		DIN/VDE		Origin		= + 01		page 26 of 67	
1		2		3		4		5		6		7		8	



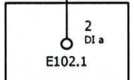
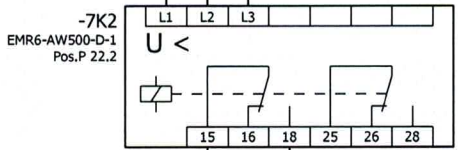
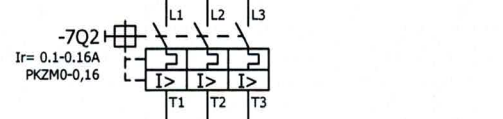
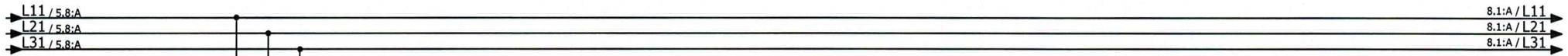
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			prep.		Balzheim	cold water plant			=	
			check.	Herr Schmucker	elektromatic	CCWP.4-458-15K-50Hz-R134a-evi	K2. 44	elektromatic speidel	+ 01	page 24
modification	date	name	norm	DIN/VDE	Origin			AF-1220231F01-S		of 67



8

date		02.11.2022		KTI		elektromatic		emergency stop relais		Masa 6 - South of Spain		AF-1220231F01-S		=	
prep.				Balzheim		speidel GmbH		cold water plant		K2 J44		elektromatic speidel		+ 01	
check.		Herr Schmucker		Origin		CCWP.4-458-15K-50Hz-R134a-evi				AF-1220231F01-S		page		9	
norm		DIN/VDE										of		67	

10



-95K4
/99.4:B

voltage control

6

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		date	02.11.2022	KTI Balzheim	elektromatic speidel GmbH	voltage control cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Masa-6 - South of Spain K2. J44	AF-1220231F01-S elektromatic speidel	AF-1220231F01-S	= +01	page of
		prep.									
		check.	Herr Schmucker								
modification	date	name	norm	DIN/VDE	Origin						

1 2 3 4 5 6 7 8


project survey

KTI_IHV

plant	location	page	installation/function group	date	prepared
	01	91	I/O reserve	02.11.2022	
	01	92	air cooler	02.11.2022	
	01	93	fuse control	02.11.2022	
	01	94	plant blocked	02.11.2022	
	01	95	PLC	02.11.2022	
	01	96	PLC	02.11.2022	
	01	97	switch	02.11.2022	
	01	98	PLC overview	02.11.2022	
	01	99	PLC overview	02.11.2022	
	01	100	PLC overview	02.11.2022	
	01	101	PLC overview	02.11.2022	
	01	103	PLC overview	02.11.2022	
	01	104	PLC overview	02.11.2022	
	01	109	expansions valve W8.16	02.11.2022	
	01	110	expansions valve W8.16	02.11.2022	
	01	125	exhaust fan	02.11.2022	
	01	126	gas warning machinery room	02.11.2022	
	KLP	1	Terminal diagram : =+01-X0	02.11.2022	
	KLP	2	Terminal diagram : =+01-X1	02.11.2022	
	KLP	3	Terminal diagram : =+01-X1	02.11.2022	
	KLP	4	Terminal diagram : =+01-X2	30.11.2022	
	KLP	5	Terminal diagram : =+01-X3	02.11.2022	
	KLP	6	Terminal diagram : =+01-X3	02.11.2022	
	KLP	7	Terminal diagram : =+01-X4	02.11.2022	
	KLP	8	Terminal diagram : =+01-X4	02.11.2022	
	KLP	9	Terminal diagram : =+01-X6	02.11.2022	
	KLP	10	Terminal diagram : =+01-X8	02.11.2022	
	KLP	11	Terminal diagram : =+01-XF	02.11.2022	

2

2.2

modification	date	name	date	30.11.2022	KTI Balzheim	elektromatic speidel GmbH	project survey cold water plant CCWP.4-458-15K-50Hz-R134a-evi	Masa 6 - South of Spain K2 J44	AF-1220231F01-S elektromatic speidel  AF-1220231F01-S	= + 01	page of	2.1 67

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