

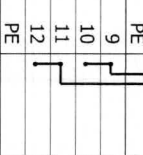
exhaust fan
machinery room

110		KT1		Balzheim		elektromatic		exhaust fan		Stock 22-044		AF-1220231F01-S		AF-1220231F01-S		126	
modification		date		name		prep.		check.		norm		date		date		page	
1		2		3		4		5		6		7		8		67	
		02.11.2022		Hein Schmucker		Hein Schmucker		CCWP_4-458-15K-50HZ-R134a-evi		K22-00044		elektromatic		elektromatic		125	
				DIN/VDE		DIN/VDE		cold water plant				speidel		speidel		67	
								CCWP_4-458-15K-50HZ-R134a-evi									
								exhaust fan									
								cold water plant									
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								exhaust fan									
								cold water plant									

Terminal strip

terminal strip
= +01-X2

cable marking		cable type		target external	connection	terminal marking	bridge	target internal	connection	cable marking		page/path	material type
				+10-9S1	11	1		-9A1	9			/9.1:E	PT 1,5/S-TWIN
				+10-9S1	12	2						/9.1:E	PT 1,5/S-TWIN
				+10-9S1	21	3		-9A1	7			/9.2:E	PT 1,5/S-TWIN
				+10-9S1	22	4						/9.2:E	PT 1,5/S-TWIN
						PE						/9.2:E	PT 1,5/S-TWIN-PE
						5						/9.3:E	PT 1,5/S-TWIN
						6						/9.3:E	PT 1,5/S-TWIN
						7						/9.3:E	PT 1,5/S-TWIN
						8						/9.3:E	PT 1,5/S-TWIN
						PE						/9.3:E	PT 1,5/S-TWIN-PE
						9						/9.4:E	PT 1,5/S-TWIN
						10		-9S7	12			/9.4:E	PT 1,5/S-TWIN
						11						/9.4:E	PT 1,5/S-TWIN
						12		-9S7	22			/9.4:E	PT 1,5/S-TWIN
						PE		-X1	PE:2			/9.5:E	PT 1,5/S-TWIN-PE
terminal total												15	



3		date		02.11.2022		KTI		elektromatic		Terminal diagram : = +01-X2		Stock 22-044		AF-1220231F01-S	
1		date		02.11.2022		Balzheim		Speidel GmbH		cold water plant		K22-00044		elektromatic speidel	
2		prep.		Herr Schmucker		Origin				cold water plant				AF-1220231F01-S	
3		check.								cold water plant				+ KLP	
4		norm		DIV/VE						cold water plant				page	
5		date								cold water plant				of	
6		name								cold water plant				67	
7		date								cold water plant					
8		prep.								cold water plant					
9		check.								cold water plant					
10		norm								cold water plant					
11		date								cold water plant					
12		name								cold water plant					

Terminal strip

terminal strip
= +01-X4

cable marking		terminal strip = +01-X4				cable marking		page/path		material type
cable type	target external	connection	terminal marking	bridge	target internal	connection	cable type	page/path	material type	
-KK2			1 .		-25K6	11		/25.5:B	PT 1,5/S-TWIN	
-KK2			2 .		-25K3	A2		/25.5:B	PT 1,5/S-TWIN	
-KK2			3 .		-95K3	-X10:7		/25.5:B	PT 1,5/S-TWIN	
-KK2			PE					/25.6:B	PT 1,5/S-TWIN-PE	
+10-25B7		1	4 .		-XF	1		/25.7:A	PT 1,5/S-TWIN	
+10-25B7		1	5 .		-96K3	-X10:22		/25.7:B	PT 1,5/S-TWIN	
+10-25B8		1	PE					/25.7:B	PT 1,5/S-TWIN-PE	
+10-25B8		1	6 .		-XF	2		/25.8:A	PT 1,5/S-TWIN	
+10-25B8		1	7 .		-96K3	-X10:24		/25.8:B	PT 1,5/S-TWIN	
+10-25B8		1	PE					/25.8:B	PT 1,5/S-TWIN-PE	
+10-38F7		BN(1)	8 .		-38Q1	1,53		/38.7:A	PT 1,5/S-TWIN	
+10-38F7		BU(3)	9 .		-38K5	A2		/38.7:A	PT 1,5/S-TWIN	
-95K3		-X10:15	10 .		+10-38F7	BK(4)		/38.7:B	PT 1,5/S-TWIN	
			PE					/38.7:B	PT 1,5/S-TWIN-PE	
+10-49B7		1	11 .		-XF	3		/49.8:A	PT 1,5/S-TWIN	
-96K3		-X10:32	12 .		+10-49B7	1		/49.8:B	PT 1,5/S-TWIN	
			PE					/49.8:B	PT 1,5/S-TWIN-PE	
+10-50B7		1	13 .		-XF	4		/50.8:A	PT 1,5/S-TWIN	
-96K3		-X10:34	14 .		+10-50B7	1		/50.8:B	PT 1,5/S-TWIN	
			PE					/50.8:B	PT 1,5/S-TWIN-PE	
+10-85B4		1	15 .		-XF	5		/85.4:A	PT 1,5/S-TWIN	
-96K3		-X10:26	16 .		+10-85B4	1		/85.4:B	PT 1,5/S-TWIN	
			PE					/85.4:B	PT 1,5/S-TWIN-PE	
+10-85B6		1	17 .		-XF	6		/85.6:A	PT 1,5/S-TWIN	
-96K4		-X10:36	18 .		+10-85B6	1		/85.6:B	PT 1,5/S-TWIN	
			PE					/85.6:B	PT 1,5/S-TWIN-PE	
-85R7			19 .		-XF	7		/85.7:A	PT 1,5/S-TWIN	
+10-85F7			20 .		-85R7			/85.7:B	PT 1,5/S-TWIN	
-96K4		-X10:16	21 .		+10-85F7			/85.7:C	PT 1,5/S-TWIN	
			PE					/85.7:C	PT 1,5/S-TWIN-PE	
+10-85B8		1	22 .		-XF	8		/85.8:A	PT 1,5/S-TWIN	
-96K4		-X10:34	23 .		+10-85B8	1		/85.8:B	PT 1,5/S-TWIN	
			PE					/85.8:B	PT 1,5/S-TWIN-PE	
+10-94S3		3	24 .		-94S2	13		/94.3:A	PT 1,5/S-TWIN	
-95K4		-X10:4	25 .		+10-94S3	4		/94.3:B	PT 1,5/S-TWIN	

terminal total 41

6		date		02.11.2022		KTI		Balzheim		elektromatic		Terminal diagram : =+01-X4		Stock 22-044		AF-1220231F01-S		AF-1220231F01-S		AF-1220231F01-S		= + KLP		page 7 of 67	
modification		date		prep. check.		name		DIN/VDI		Origin		Speidel GmbH		cold water plant		K22-00044		elektromatic speidel		AF-1220231F01-S		+ KLP		page 7 of 67	
1		2		Herr Schmucker		3		4		5		6		7		8		7		8		7		67	

Terminal strip

terminal strip
= +01-X6

cable marking		terminal strip = +01-X6				cable marking		page/path		material type
cable type	target external	connection	terminal marking	bridge	target internal	connection	cable 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		16 .		-109A2			/109.6:D	ST 1,5	
	+10-109Y6		17 .		-109A2			/109.7:D	ST 1,5	
	+10-109Y6		18 .		-109A2			/109.7:D	ST 1,5	
	+10-109Y6		19 .		-109A2			/109.7:D	ST 1,5	
			S					/109.7:D		
Terminal total									25	

8		date		02.11.2022		KTT		Terminal diagram : =+01-X6		Stock 22-044		AF-1220231F01-S		=	
modification		date		name		Balzheim		cold water plant		K22 00044		elektromatik speidel		+ KLP	
1		2		3		4		5		6		7		8	
		prep. check.		Herr Schmucker		Speidel GmbH		CCWP_4-458-15K-50Hz-R134a-ewi				elektromatik speidel		AF-1220231F01-S	
		norm		DIN/VDE										page 9 of 67	
		Origin													

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer
+01-24Q2 +01/24.2:A	1	Circuit-breaker, 3p, 125A	NZMB2-M125 ETN.NZMB2-M125	ETN
+01-24Q2 +01/24.2:A	1	Contact element, 1N/O, front mount, screw connection	M22-AK10 ETN.M22-AK10	ETN
+01-24Q2 +01/24.2:A	2	Protection against contact with a finger, JP2X, 3p, size 2	NZM2-XIPK ETN.NZM2-XIPK	ETN
+01-24Q2 +01/24.2: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 RTT.9345610	RTT
+01-25K1 +01/25.1:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE
+01-25K2 +01/25.2:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE
+01-25K3 +01/25.3:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE
+01-25K6 +01/25.6:D	1	Relay, plug-in, 2 pole, 12 A , mechanical indicator, 230 VAC	LZX:PT270730 SIE.LZXPT270730	SIE
+01-25K6 +01/25.6:D	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE
+01-25K6 +01/25.6:D	1	Plug-in relay couplers 4W	LZS:PT78740 SIE.LZSPT78740	SIE
+01-25K6 +01/25.6:D	1	Relay retaining bracket	LZS:PT17024 SIE.LZSPT17024	SIE
+01-26K3 +01/26.3:D	1	Relay Module	PLC-RSC-24DC/1/ACT PXC.2966210	PXC
+01-26K4 +01/26.4:D	1	Relay Module	PLC-RSC-24DC/1/ACT PXC.2966210	PXC
+01-26K5 +01/26.5:D	1	Relay Module	PLC-RSC-24DC/1/ACT PXC.2966210	PXC
+01-26K5.1 +01/26.5:D	1	Relay Module	PLC-RSC-24DC/1/ACT PXC.2966210	PXC
+01-35Q2 +01/35.2:A	1	Short-circuit protective breaker, 3p, im=4A8A	PKM0-32 ETN.PKM0-32	ETN
+01-35Q2 +01/35.2:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NH1-E-10-PKZ0 ETN.NH1-E-10-PKZ0	ETN
+01-35Q2 +01/35.2:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C RilIne60 3-polig	SV.9340310 RTT.9340310	RTT

4

modification	date	name	date	prep.	check.	norm	DI/VVDE	Origin
	1		02.11.2022					
				Herr Schmucker				

2

KTI	Balztheim	elektromatic	Spieldel GmbH
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Stock 22-044
K22-00044

AF-1220231F01-S

AF-1220231F01-S

+ ASL

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Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer
+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	VM3A3627 SE.VM3A3627	SE
+01-35U1 +01/35.4:C	1	ATV320 Option module adapter	VM3A3600 SE.VM3A3600	SE
+01-38K5 +01/38.5:D	1	Contactor, 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	NH1-E-10-PKZ0 ETN.NH1-E-10-PKZ0	ETN
+01-38Q1 +01/38.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C	SV.9340310 RTT.9340310	RTT
+01-38Q1 +01/38.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C	DILM12-01(24VDC) ETN.DILM12-01(24VDC)	ETN
+01-41K5 +01/41.5:D	1	Contactor, 3p+1N/C, 5.5kW/400V/AC3	PKZM0-10 ETN.PKZM0-10	ETN
+01-41Q1 +01/41.1:A	1	Motor-protective circuit-breaker, 3p, Ir=6.3-10A, screw connection	NH1-E-10-PKZ0 ETN.NH1-E-10-PKZ0	ETN
+01-41Q1 +01/41.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	SV.9340310 RTT.9340310	RTT
+01-41Q1 +01/41.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C	DILM12-01(24VDC) ETN.DILM12-01(24VDC)	ETN
+01-45K5 +01/45.5:D	1	Contactor, 3p+1N/C, 5.5kW/400V/AC3	LZK:PT270730 SIE.LZXP270730	SIE
+01-45K7 +01/45.7:D	1	Relay, plug-in, 2 pole, 12 A, mechanical indicator, 230 VAC	LZK:PT270730 SIE.LZXP270730	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	NH1-E-10-PKZ0 ETN.NH1-E-10-PKZ0	ETN

modification	date	name	norm	DIN/VDI	Origin	Parts list	Stock	AF-1220231F01-S	AF-1220231F01-S	page
	02.11.2022				Balzheim	cold water plant	K22-n0044			6
						CCWP_4-458-15K-50Hz-R134a-ewi				67

Parts list

KTI_LAST

device tag placement	quantity	designation	type number part number	manufacturer
+01-50K6 +01/50.6:D	1	Relay, plug-in, 2 pole, 12 A, mechanical indicator, 230 VAC	LZX:PT270730 SIE.LZXPT270730	SIE
+01-50K6 +01/50.6:D	1	Relay retaing bracket	LZS:PT17024 SIE.LZSPT17024	SIE
+01-50K6 +01/50.6:D	1	Inscription label 26 MM for RT relays	LZS:PT17040 SIE.LZSPT17040	SIE
+01-50K6 +01/50.6:D	1	Plug-in relay couplers 4W	LZS:PT78740 SIE.LZSPT78740	SIE
+01-50Q1 +01/50.1:A	1	Motor-protective circuit-breaker, 3p, Ir=10-16A, screw connection	PKZM0-16 ETN.PKZM0-16	ETN
+01-50Q1 +01/50.1:A	1	Standard auxiliary contact, 1N/O, flush mounting, screw connection	NH1-E-10-PKZ0 ETN.NH1-E-10-PKZ0	ETN
+01-50Q1 +01/50.1:A	1	OM adaptor 25A, 690V, AWG 12 45x208mm, TS45C	SV.9340310 RTT.9340310	RTT
+01-84K7 +01/84.7:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE
+01-92F2 +01/92.2:A	1	Over current switch, 6A, 1p, C-Char, AC	FAZ-C6/1 ETN.FAZ-C6/1	ETN
+01-92F2 +01/92.2:A	1	Auxiliary contact, for FAZ, PKNM, 1N/O+1N/C, 0.5HP	FAZ-XHIN11 ETN.FAZ-XHIN11	ETN
+01-92K7 +01/92.7:D	1	Contactor, 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
+01-94K5 +01/94.5:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE
+01-94K6 +01/94.6:D	1	Relay interface module 1W, 8A/250V	LZS:RT3A4L24 SIE.LZSRT3A4L24	SIE
+01-94S2 +01/94.2:A	1	Illuminated pushbutton actuator, flush, red, momentary	M22-DL-R ETN.M22-DL-R	ETN
+01-94S2 +01/94.2:A	1	LED element, red, front mount, 85-264VAC	M22-LED230-R ETN.M22-LED230-R	ETN
+01-94S2 +01/94.2:A	1	Contact element, 1N/O, front mount, screw connection	M22-AK10 ETN.M22-AK10	ETN
+01-95K2 +01/95.2:A	1	CPU 1511-1PN, 150KB PROGRAM, 1MB DATA	6ES7511-1AK02-0AB0 SIE.6ES7511-1AK02-0AB0	SIE
+01-95K3 +01/95.3:A	1	S7-1500, DI 16x24VDC HF	6ES7521-1BH00-0AB0 SIE.6ES7521-1BH00-0AB0	SIE

8		02.11.2022		KTI		Balzheim		elektromatic		Parts list		Stock 22-044		AF-1220231F01-S		AF-1220231F01-S		= + ASL		page 9	
modification date		date prep. check.		name		check. DIN/VDE		Origin		cold water plant		K22-00044		elektromatic		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
+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, 1XR5232, 1XR5485, 1XCAN, 1xProfibus, 1xSD card slot	XV-303-70-C02-A00-1B ETN.XV-303-70-C02-A00-1B	ETN
+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	TRADREFE240 CAR:TRADREFE240	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	Contactor, 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 KI relays	LZS:PT17040 SIE:LZSPT17040	SIE

9		date: 02.11.2022		KTI		elektromatic		Parts list		Stock 22-044		AF-1220231F01-S	
modification		date		name		prep. check.		Herr Schmucker		Balzheim		Speidel GmbH	
1		1		1		norm		DIN/VE		Origin		CCMP 4-458-15K-50HZ-R134a-evi	
10		page		of		67		AF-1220231F01-S		+ ASL		AF-1220231F01-S	

Parts list

KTI_AST

device tag placement	quantity	designation	type number part number	manufacturer	1=delivery 2=supply
+01-126K3 +01/126.4:8	1	Plug-in relay couplers 4W	LZS-P778740 SIE LZSP778740	SIE	
+01-126K3 +01/126.4:8	1	Relay retating bracket	LZS-PT17024 SIE LZSP17024	SIE	
+01-126T1 +01/126.1:A	1	transformer 230/24AC / 35VA	TRADRFE240 CAR TRADRFE240	CAR	

10		date		02.11.2022		KTI		elektromatic		Parts list		Stock 22-044		AF-1220231F01-S		=		page		11	
modification		date		Herr Schmucker		Balzheim		Speidel GmbH		cold water plant		K22-00044		elektromatic speidel		+ ASL		page		67	
1		date		DIN/VDI		3		4		5		6		7		8					

