



The choice of professionals

# Service manual

## ***Diamatic 780PRO***

*Service manual  
Version 1.1*



**Diamatic**  
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## 1. Tools

### Diamag grinding wings

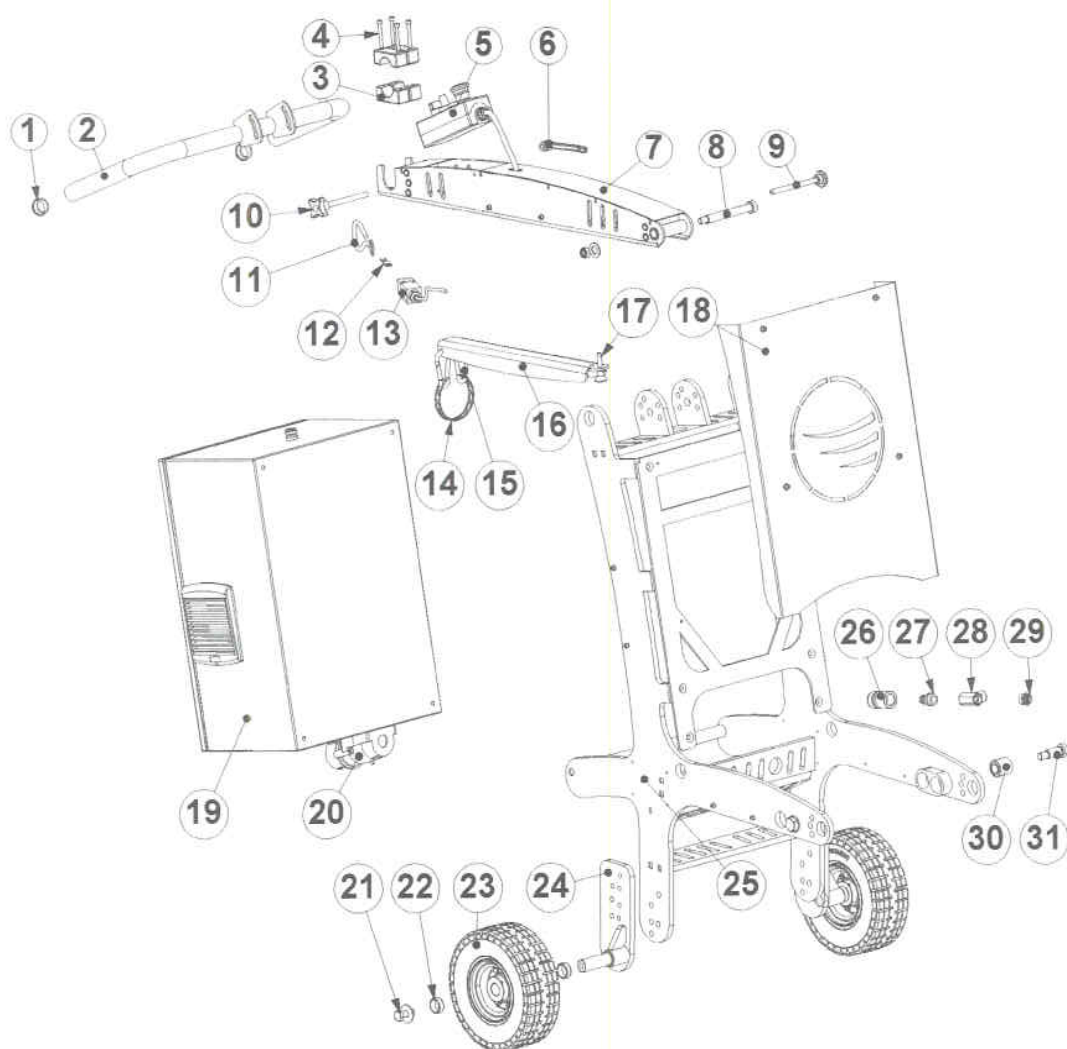
Item	Part number	Description	Remarks	Qty.
	BG707301	Diamag wing red box 9 pieces 18/20		1
	BG707302	Diamag wing red box 9 pieces 30/40		1
	BG707303	Diamag wing red box 9 pieces 60/80		1
	BG707304	Diamag wing red box 9 pieces 120/150		1
	BG707311	Diamag wing green box 9 pieces 18/20		1
	BG707312	Diamag wing green box 9 pieces 30/40		1
	BG707313	Diamag wing green box 9 pieces 60/80		1
	BG707314	Diamag wing green box 9 pieces 120/150		1
	BG707321	Diamag wing blue box 9 pieces 18/20		1
	BG707322	Diamag wing blue box 9 pieces 30/40		1
	BG200995/SET	Wing PCD 1 x 1	(set of 9)	1
	BG200997/SET	Wing PCD split	(set of 9)	1

### Diamag polishing dots

Item	Part number	Description	Remarks	Qty.
	BG7100100	Diamag dry polishing dot black #100	(set of 9)	1
	BG7100200	Diamag dry polishing dot blue #200	(set of 9)	1
	BG7100400	Diamag dry polishing dot red #400	(set of 9)	1
	BG7100800	Diamag dry polishing dot white #800	(set of 9)	1
	BG7101800	Diamag dry polishing dot yellow #1800	(set of 9)	1
	BG7103000	Diamag dry polishing dot green #3000	(set of 9)	1
	BG707303	Diamag wing red box 9 pieces 60/80		1
	BG707304	Diamag wing red box 9 pieces 120/150		1
	BG7110050	Diamag wet polishing dot orange #50	(set of 9)	1
	BG7110100	Diamag wet polishing dot black #100	(set of 9)	1
	BG7110200	Diamag wet polishing dot blue #200	(set of 9)	1
	BG7110400	Diamag wet polishing dot red #400	(set of 9)	1
	BG7110800	Diamag wet polishing dot white #800	(set of 9)	1
	BG7111800	Diamag wet polishing dot yellow #1800	(set of 9)	1
	BG7113000	Diamag wet polishing dot green #3000	(set of 9)	1

## 2. Spare parts

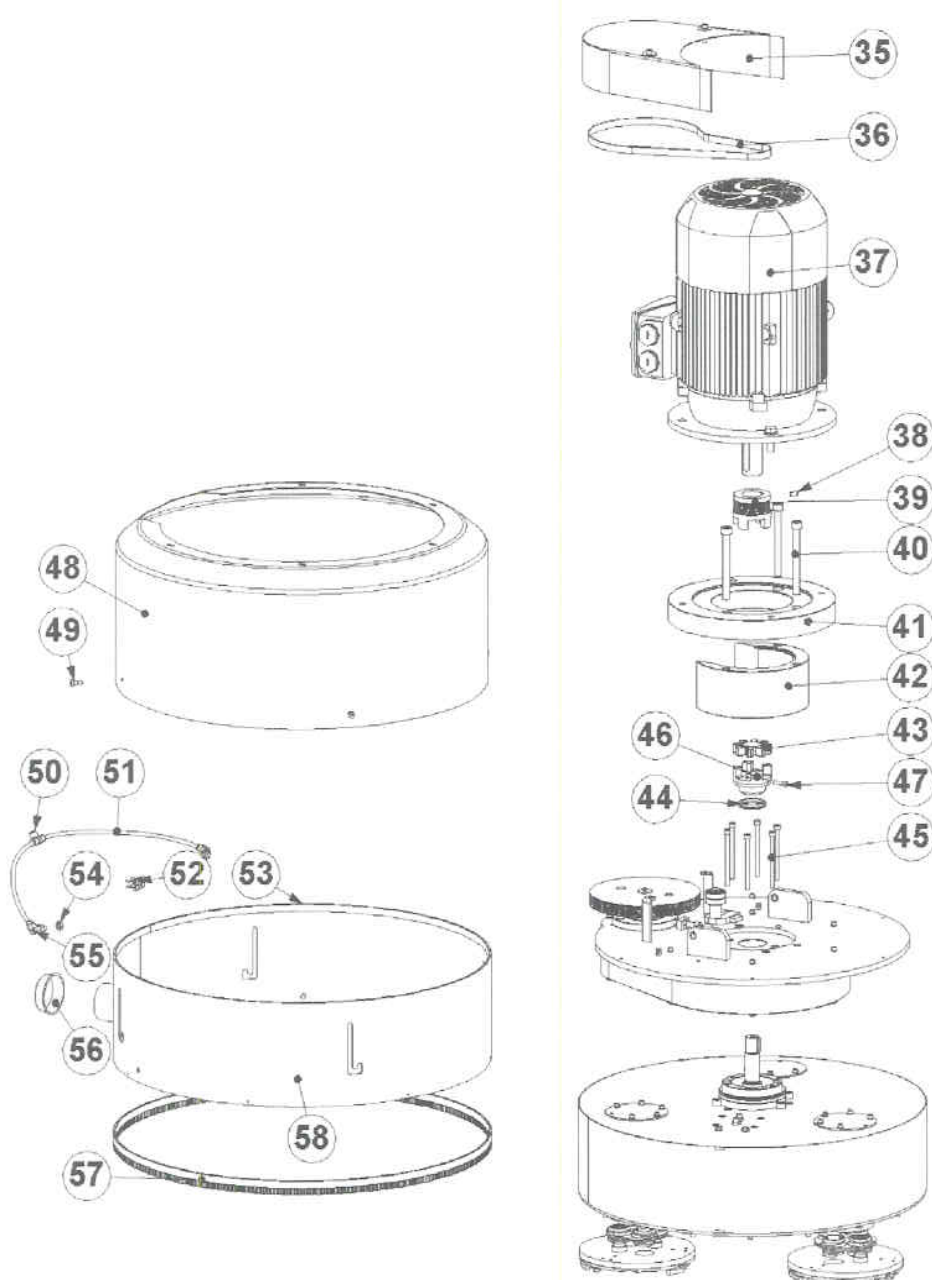
### Frame complete



Item	Part number	Description	Remarks	Qty.
1	BE0643	Tube cap round		2
2	E07032/RD	Handle for steer long		1
3	999-9156	Pipe clamp (set)		2
4	BE0191	M6x50 hexagon socket head bolt	DIN 912	4
5	E06861	Operating box complete		1
	E01543	Emergency stop		
	E01318	Start button		
	E01351/1	Potential meter (speed switch)		
	E01323	Left / right switch		
	E05130	Make contact (green)		
	E05131	Brake contact (red)		
6	BE0641	M10 clamp lever		1
7	BG005835	Steer handle		1
8	BE0640	M12 hexagon shoulder screw		1
9	BG11751-1	Handle locking pin		1
10	E06860	Clamping pin steer		1
11	BG11758	Cord for deadman switch		1
12	BG11759	Key for deadman switch		1
13	BG11760	Deadman switch		1
14	E07008	Chain (11links)		1
15	BE0653	Hook		2
16	E06883	Swing arm for dusthose		1
17	478198	Quick release pin		1
18	BG005338	Cover plate electro box		1
19	BG11917	Electrobox 15kW complete		1
	BG11917/UL230	Electrobox 15kW complete 230UL		1
	BG11917/UL480	Electrobox 15kW complete 480UL		1
20	E05135	Electrical inlet 3x400V 32A		1
	E05134	Electrical inlet 3x230V 63A		1
	E05132	Electrical inlet 3x480V 63A		1
21	BE0037	M12x30 hexagon head bolt		2
22	BG11850-1/1	Wheel spacers		4
23	BG11850-1	Wheel		2
24	E06915	Wheel axle left		1
	E06916	Wheel axle right		1
25	BG005825	Frame		1
26	E06286	Water coupling		1
27	E06285	Waterhose connection		1
28	E06282	Ball valve mini		1
29	E06279	Water reducing coupling		1
30	E01492	Megi bush		2
31	BG11752	Hinge bolt		2
	E06893_RD	780PRO logo red		2
	E06820	Diamatic logo		4

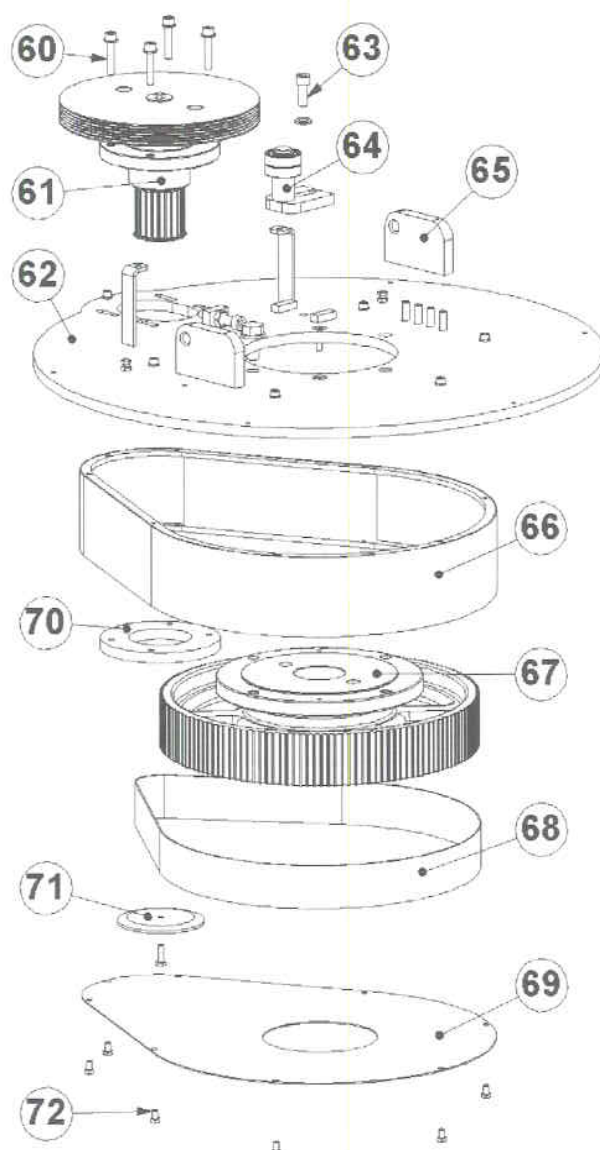


## Machine complete



Item	Part number	Description	Remarks	Qty.
35	BG005847	Protection cap		1
36	BG11924	Upper belt		1
37	BG11899-1/RD	Motor 230V/480V		1
38	BE0654	M8x16 set screw	DIN 916	4
39	BG007808_2	Coupling upper part		1
40	BE0656	M14x140 hexagon socket head bolt	DIN 912	3
41	BG007810	Flange motor seat		1
42	BG007811	Motor seat		1
43	BG005844	Coupling plastic star		1
44	BG11829	V-seal		1
45	BE0635	M8x110 hexagon socket head bolt	DIN 912	6
46	BG007808_1	Coupling under part		1
47	BE0188	M6x25 hexagon socket head bolt	DIN 912	1
48	BG007839-2	Protection cover		1
49	BE0655	M6x12 hexagon shoulder screw		4
50	E06281	Water T-coupling		1
51	E06278	Waterhose		2,0m
52	E06276	Pipe clamp		2
53	E06897	Slide strip		3,0m
54	E06293	Nut for knee coupling		2
55	E06280	Water knee coupling		2
56	E04551	Plastic cap		1
57	BG007849	Brush for floating shroud		1
58	BG007855	Floating shroud		1
59				

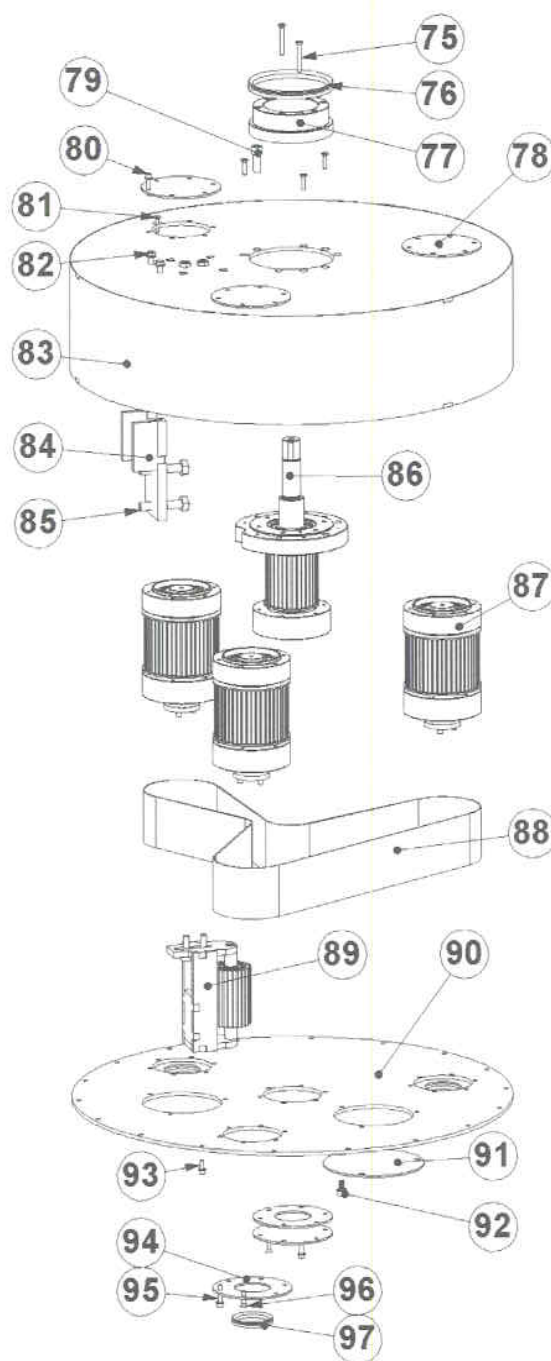
### Upper drive





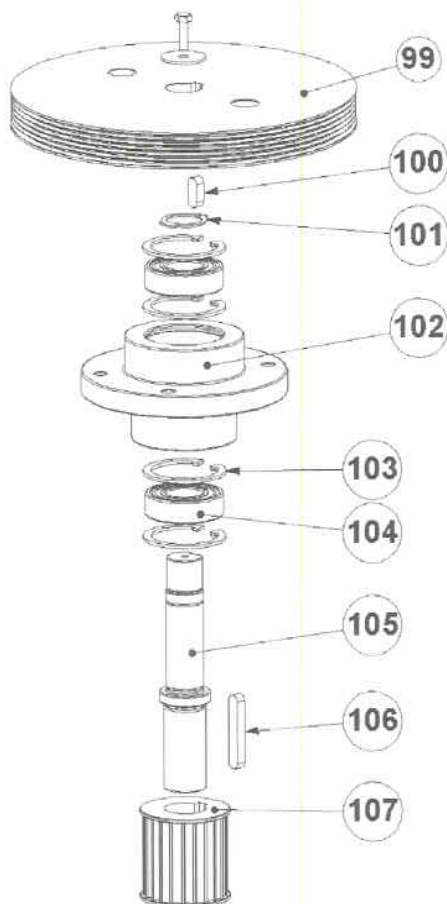
Item	Part number	Description	Remarks	Qty.
60	BE0631	M8x40 hexagon socket head bolt	DIN 7984	4
61	BG007866	Contra pulley		1
62	BG007809-1	Motorplate compl		1
63	BE0443	M10x25 hexagon socket head bolt		1
64	BG005860	Upper tensioner		1
65	BG005813	Holder		2
66	BG007838	Motor housing		1
67	BG007867	Centre pulley		1
68	BG11980	Middle belt		1
69	BG005834	Lower plate upper drive		1
70	BG005807	Ring		1
71	BG007804	Flange		1
72	BE0350	M6x10 hexagon head screw		8
73				
74				

## Lower drive



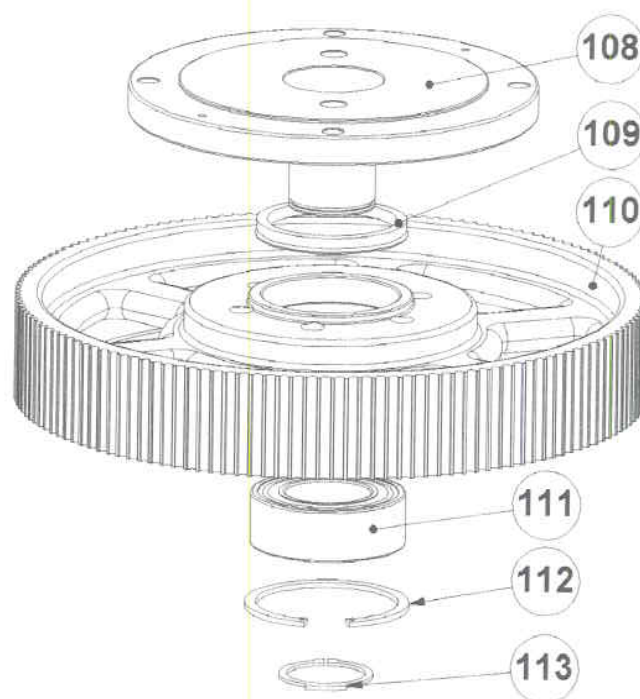
Item	Part number	Description	Remarks	Qty.
75	BE0617	M6x50 countersunk screw	DIN 7991	2
76	BG11849	V-seal		1
77	BG007814	Ring		1
78	BG007827	Cover		4
79	BE0198	M12x30 hexagon socket head bolt	DIN 912	5
80	BE0189	M6x30 hexagon head bolt	DIN 933	15
81	BE0502	M6x25 countersunk screw	DIN 7991	6
82	BE0030	M8x25 hexagon head bolt	DIN 933	2
83	BG007822-1	Housing complete		1
84	BG007832	Tensioner plate		1
85	BE0122	M14x75 hexagon head bolt	DIN 933	2
86	BG007868	Drive pulley		1
87	BG007869	Pulley		3
88	BG11866	Lower belt		1
89	BG007865	Lower tensioner		1
90	BG007824	Lower plate		1
91	BG007850	Inspection cover		2
92	BE0082	M8x12 hexagon socket head bolt	DIN 912	6
93	BE0035	M6x16 hexagon socket head bolt	DIN 912	18
94	BG0007826	Ring		4
95	BE0189	M6x30 hexagon head bolt	DIN 933	20
96	BE0502	M6x25 countersunk screw	DIN 7991	4
97	BG11797	V-seal		3
98				

### Contra pulley BG007866



Item	Part number	Description	Remarks	Qty.
99	BG005803	Belt pulley		1
100	BE0109	Key 8x7x20	DIN 6885A	1
101	BE0076	Retaining ring for shaft Ø25	DIN 471	1
102	BG005802	Bearing house		1
103	BE0077	Retaining ring for bore Ø52	DIN 472	4
104	222-2331-E	Bearing		2
105	BG007801	Axle		1
106	BE0657	Key 8x7x50	DIN 6885A	1
107	BG007805	Pulley		1

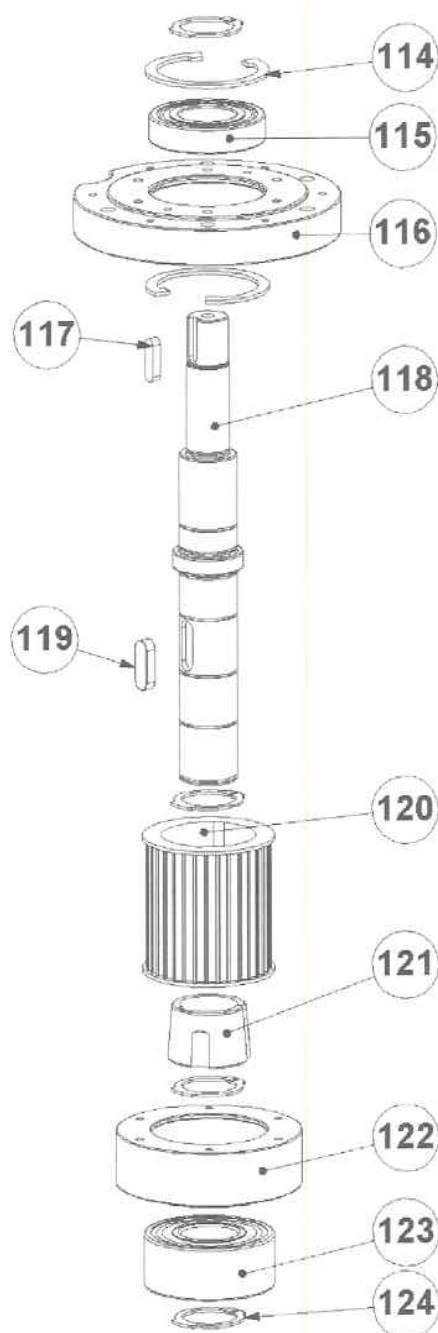
### Centre pulley BG007867



Item	Part number	Description	Remarks	Qty.
108	BG007812	Sprocket		1
109	E03703	V-seal		1
110	BG007806-1	Pulley		1
111	E01490	Bearing		1
112	E03993	Retaining ring for bore Ø90	DIN 472	1
113	BE0126	Retaining ring for shaft Ø50	DIN 471	1

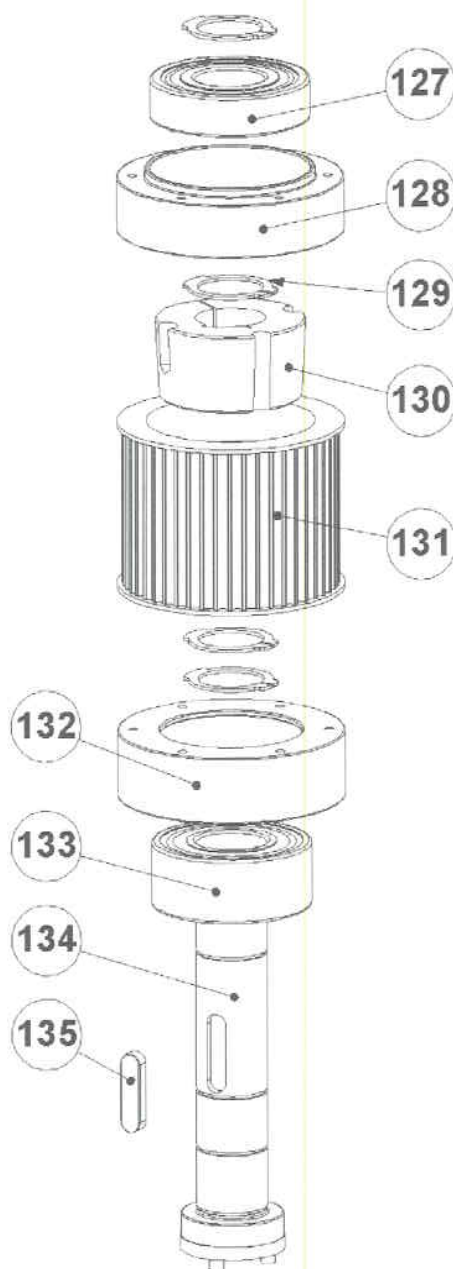


## Drive pulley BG007868



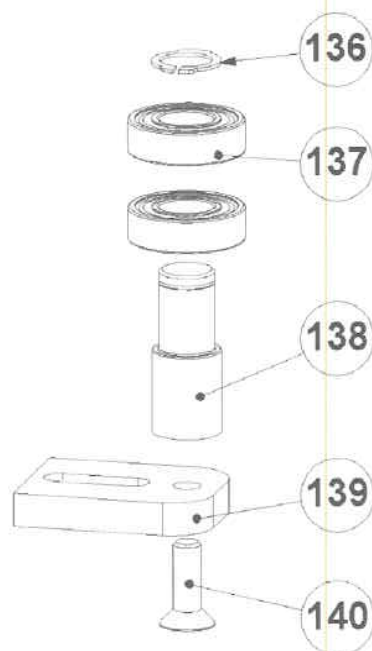
Item	Part number	Description	Remarks	Qty.
114	BE0107	Retaining ring for bore Ø80	DIN 472	2
115	BG11933	Bearing		1
116	BG007815	Bearing house		1
117	BE0256	Key 8x7x30	DIN 6885A	1
118	BG007818	Axle		1
119	BE0658	Key 12x8x35	DIN 6885A	1
120	BG11867	Pulley		1
121	BG11868	Taperlock		1
122	BG007817	Bearing house		1
123	BG11871	Bearing		1
124	BE0607	Retaining ring for shaft Ø40	DIN 471	4
125				
126				

## Pulley (3x) BG007869



Item	Part number	Description	Remarks	Qty.
127	BG11887	Bearing		1
128	BG007819	Bearing house		1
129	BE0607	Retaining ring for shaft Ø40	DIN 471	4
130	BG11889	Taperlock		
131	BG11888	Pulley		
132	BG007817	Bearing house		
133	BG11871	Bearing		
134	BG007816	Axle		
135	BE0659	Key 12x8x45	DIN 6885A	1

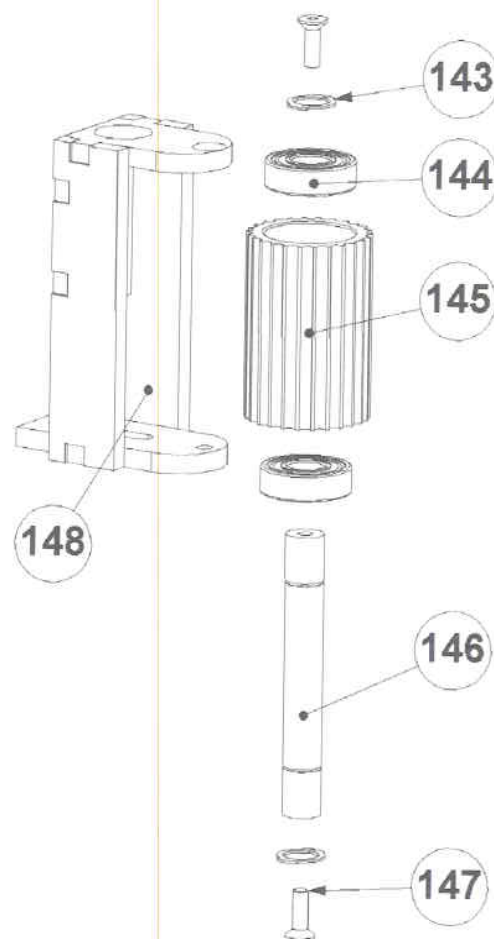
### Upper tensioner BG005860



Item	Part number	Description	Remarks	Qty.
136	BE0074	Retaining ring for shaft Ø20	DIN 471	1
137	222-2245	Bearing		2
138	BG005830	Axle for tensioner		1
139	BG005831	Tension plate		1
140	BE0130	M10x25 countersunk screw	DIN 7991	1
141				
142				

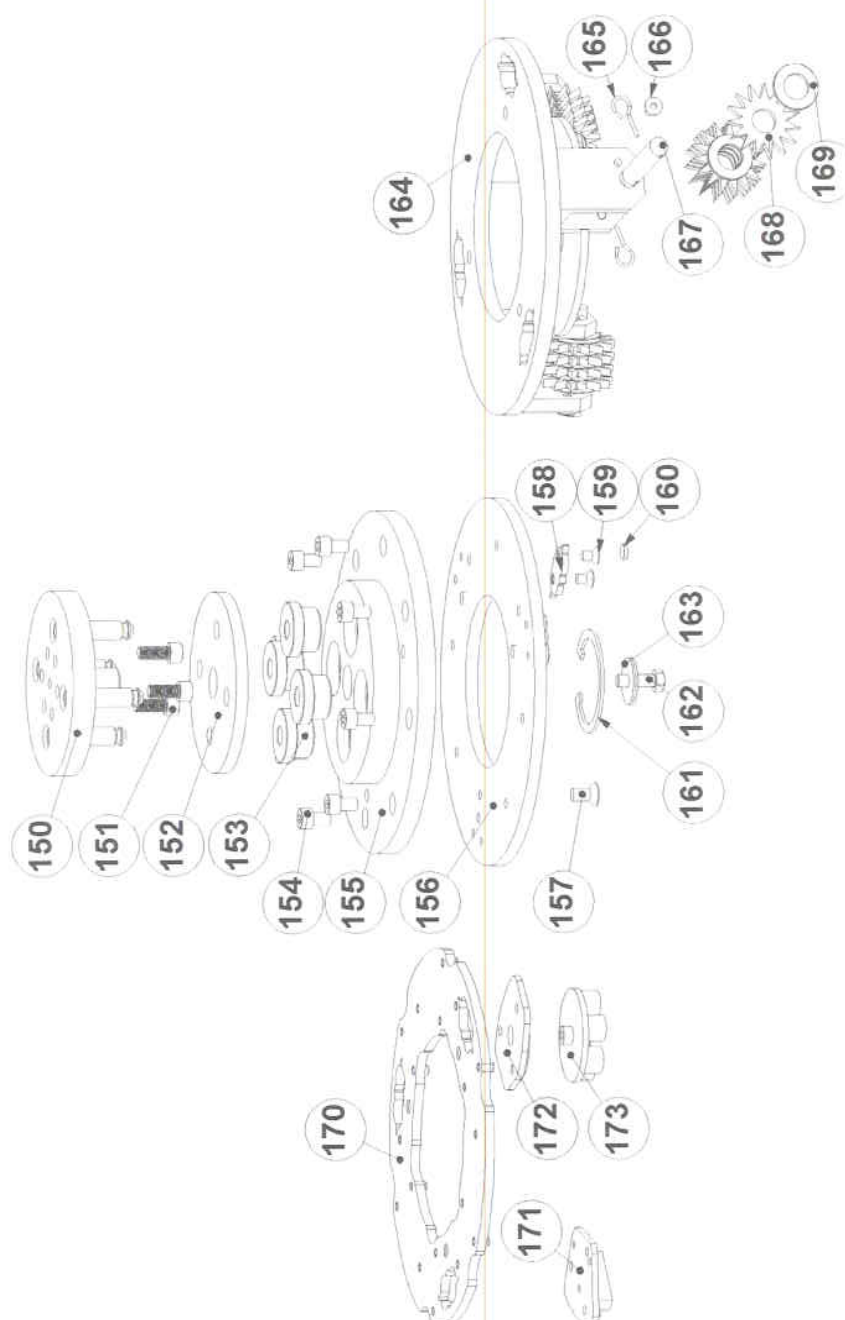


### Lower tensioner BG007865



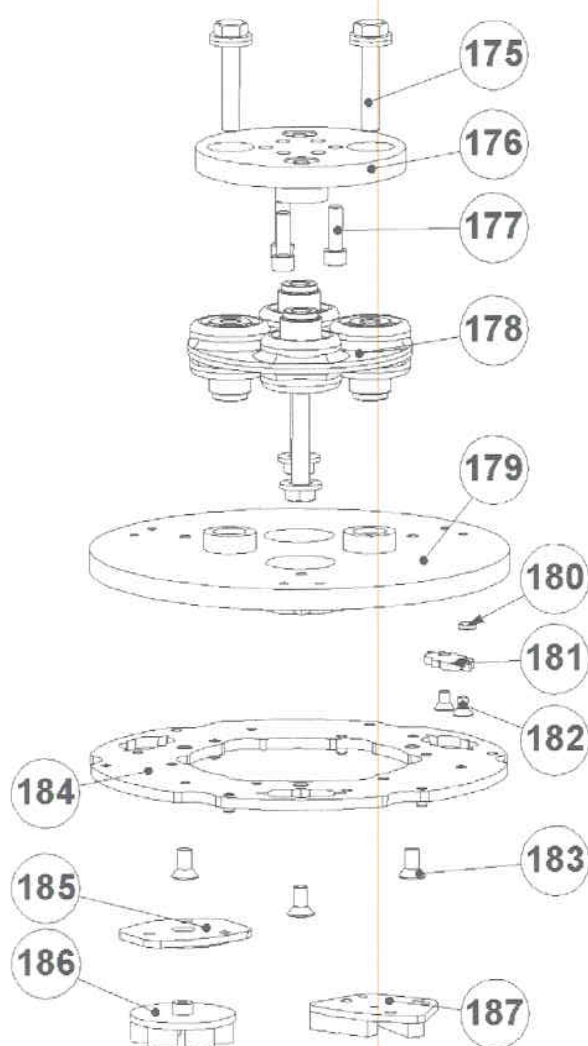
Item	Part number	Description	Remarks	Qty.
143	BE0074	Retaining ring for shaft Ø20	DIN 471	2
144	BG11884	Bearing		2
145	BG007836	Pulley		1
146	BG007837	Axle tensioner		1
147	BE0458	M8x25 countersunk screw	DIN 7991	2
148	BG007833-1	Tensioner		1
149				

### Buffer plate for surface preparation (3x)



Item	Part number	Description	Remarks	Qty.
153-160	BG240190-1	240mm diamond holder complete		1
156-160	BG2401901-1	240mm diamond holder		1
150	BG11880	Fork		1
151	BE0204 + BE0584	M8x25 hexagon socket head bolt small + M8 spring washer small	DIN 7984 DIN 7980	3
152	BG11879	Buffer disc		1
153	BG11878	Buffer hard		4
154	BE0082	M8x12 hexagon socket head bolt	DIN 912	8
155	BG11877	Magnet plate holder 240mm		1
156	BG11876-1	Magnet plate 240mm		1
157	BE0456	M8x16 countersunk screw	DIN 7991	3
158	BG11811	Centering star		3
159	BG11810	M6x10 countersunk screw	DIN 7991	6
160	E06446	Magnet		3
161	BE0608	Retaining ring for bore Ø58	DIN 472	1
162	BE0030	M8x25 hexagon head bolt	DIN 933	1
163	BE0314	M8x30x1,5 washer		2
164-169	BG300117	240mm cutter housing complete		1
164	BG300501-1	185mm cutter housing		1
165+166	BG300133	Locking pin & screw		6
167	BG300130	Axle		3
168	BG300109	Cutter		12
169	MPL48	Washer		15
170	E07240	DIAMAG 240mm adapter plate		1
	BG200993-1	Plate for wings 240mm		1
	BG200988-1	Dry polish dot holder 240mm		1
171		DIAMAG grinding wings		3
172	E06447	DIAMAG adapter plate for dots		3
173		Dry polish dots		3

### Buffer plate for polishing (3x)



Item	Part number	Description	Remarks	Qty.
175	BE0579	7/16 x 2"½ hexagon UNC bolt		4
176	BG2402001	Flexplate adapter for axle		1
177	BE0012	M8x25 hexagon socket head bolt	DIN 912	3
178	BG400310	Morflex coupling		1
179-182	BG2402002-1	Flexplate diamond holder		1
179	BG24020021-1	Flexplate diamond holder only		1
180	E06446	Magnet		3
181	BG11811	Centering star		3
182	BG11810	M6x10 countersunk screw		6
183	BE0456	M8x16 countersunk screw	DIN 7991	3
184	E07240	DIAMAG 240mm adapter plate		1
	BG200993-1	Plate for wings 240mm		1
	BG200988-1	Dry polish dot holder 240mm		1
185		DIAMAG grinding wings		3
186	E06447	DIAMAG adapter plate for dots		3
187		Dry polish dots		3



### 3. Electric schedules

**E06867 / 3x 400V / 15kW / frequency drive**

**SYMBOL CODE**

11 F 11

\_\_\_\_ - Running number  
\_\_\_\_ - Symbol letter  
\_\_\_\_ - Schedule page

**CORE CODE**

11 11

\_\_\_\_ - Running number

**DRAWING NUMBER**

PJ#.#.#.#.#.#

\_\_\_\_ - Revision number  
\_\_\_\_ - Archive number  
\_\_\_\_ - Year
























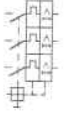
















**WIRE COLOR**

Main Voltage 400V

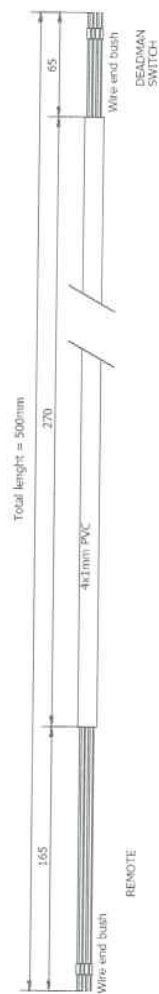
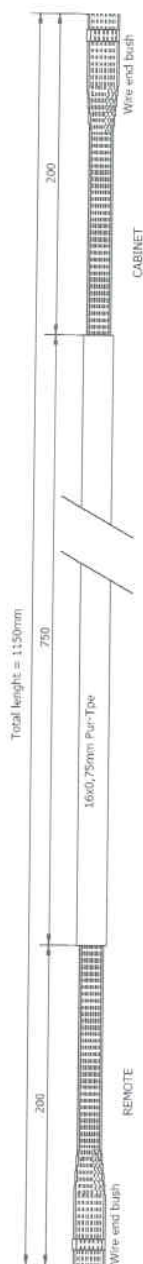
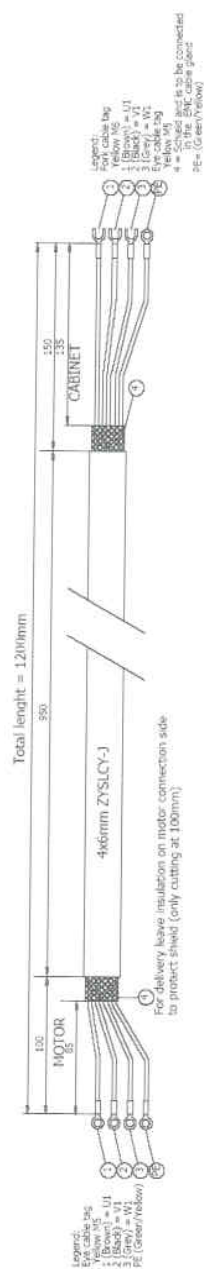
<u>Phase</u>	<u>Colors</u>
L1	- Black
L2	- Black
L3	- Black
Earth / PE	- Yellow/Green

**Control Voltage**

Plus (24VDC)	- White
Hook-up wire	- White
Minus / Ground (24VDC)	- White

	auxiliary contact	no contact		signal light	signal lamp		Safety fuse	interlocking
	Power contact	no engagement		horn	horn		Fused switch, three-pole	switchable blade
	NO contact, opens with time delay	no contact, opens with time delay		amp meter	amp meter		Fused disconnect, three-pole	switch "tapped"
	NO contact, closes with time delay	no contact, closes with time delay		running hour counter	running hour counter		Main switch	automatic valve
	NC contact, opens with time delay	no contact, opens with time delay		transformer	transformer		Circuit breaker, single-pole	main automatic 100 g
	Push bottom rebound	push bottom rebound		Contactor coil relay coil	contactor		Circuit breaker, two-pole	main automatic 200 g
	Push bottom locking	push bottom locking		Contactor/relay coil, with pick-up delay	contactor with pick-up delay		Circuit breaker, three-pole	main automatic 300 g
	Rotary switch rebound	rotary switch rebound		Contactor/relay coil, with drop-out delay	contactor with drop-out delay		Power circuit breaker with switch mechanism	main automatic 400 g
	Rotary switch locking	rotary switch locking		Contactor pulse coil relay pulse coil	contactor pulse coil		Valve	main automatic 400 g
	Emergency stop rotary unlock	emergency stop rotary unlock		Tube light	tube light		Resistor with movable contact	switch blade stop
	Thermostatic switch	thermostatic switch		Resistor / heating	resistor / heating		Terminal	switch stand
	Pressure switch	pressure switch		Socket	socket		Terminal with fuse	open
	Limit switch	limit switch		Current transformer	current transformer		Rectifier	three not taking
	Proximity switch	proximity switch						plastic





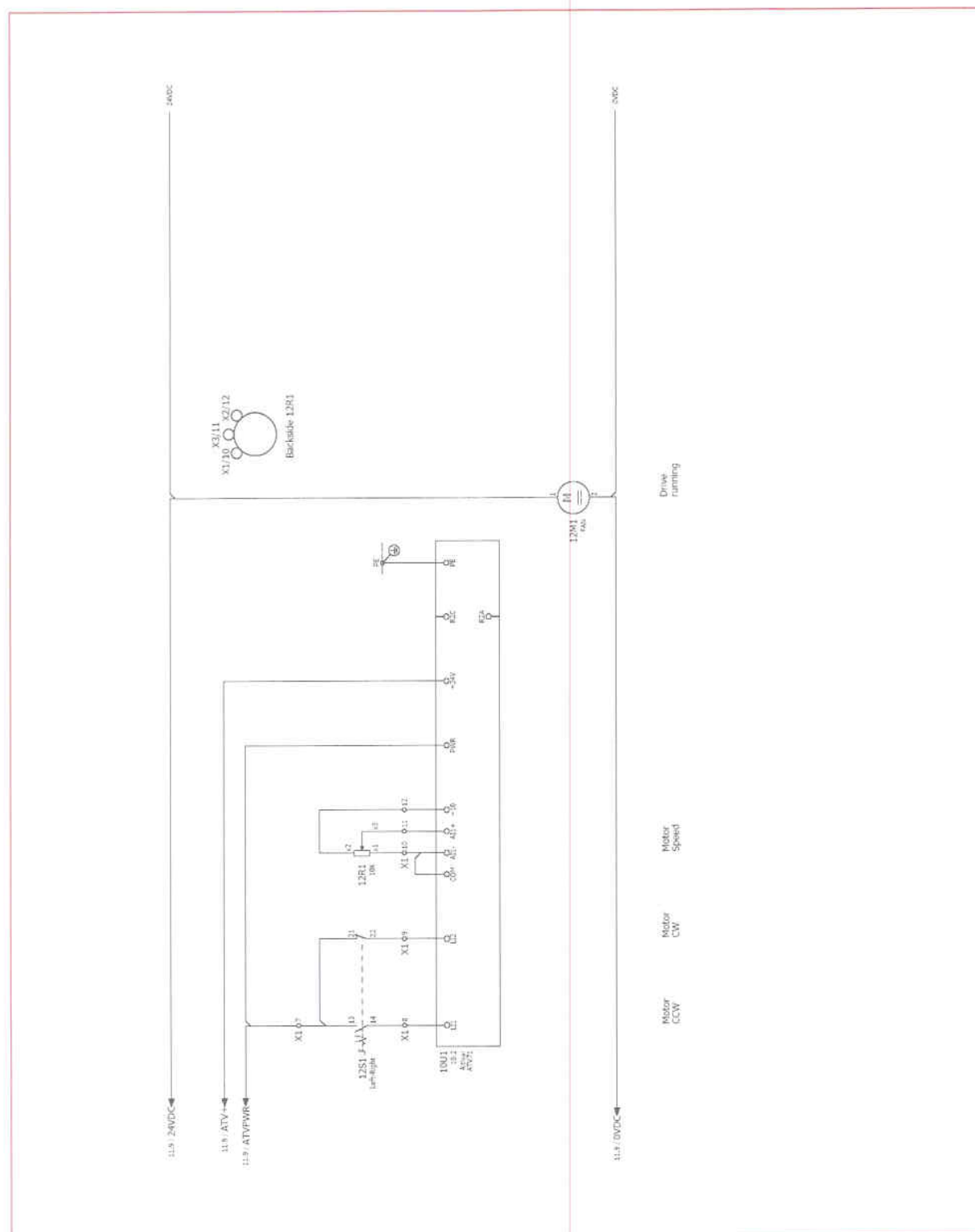


Motor 15kW  
400V 29.5A 50Hz  
1460 rpm

Power supply  
400V 32A 50Hz







## Terminal diagram

function text	Strip X1 Terminals 24Vdc										Page / column
	Cable name	cable type	Target designation	Connection point	terminal	jumper	Target designation	Connection point	Cable name	cable type	
Motor Speed			12032	1	1	*	10031	PE			12.3
Emergency stop			12033	1	2	*	10011,10011	240822			11.4
...			12034	1	2	*	12102	A1			11.4
...			14002	3	3	*	10011,10011	09402.2			11.4
...			14003	3	4	*	12103	A2			11.4
Motor Start			14004	3	4	*	12104	A2			11.4
...			14005	3	5	*	12105	A2			11.4
...			14006	3	6	*	12106	A2			11.4
...			14007	3	7	*	12107	A2			11.4
...			14008	3	8	*	12108	A2			11.4
...			14009	3	9	*	12109	A2			11.4
...			14010	3	10	*	12110	A2			11.4
...			14011	3	11	*	12111	A2			11.4
...			14012	3	12	*	12112	A2			11.4
...			14013	3	13	*	12113	A2			11.4
...			14014	3	14	*	12114	A2			11.4
...			14015	3	15	*	12115	A2			11.4
...			14016	3	16	*	12116	A2			11.4
...			14017	3	17	*	12117	A2			11.4
...			14018	3	18	*	12118	A2			11.4
...			14019	3	19	*	12119	A2			11.4
...			14020	3	20	*	12120	A2			11.4
...			14021	3	21	*	12121	A2			11.4
...			14022	3	22	*	12122	A2			11.4
...			14023	3	23	*	12123	A2			11.4
...			14024	3	24	*	12124	A2			11.4
...			14025	3	25	*	12125	A2			11.4
...			14026	3	26	*	12126	A2			11.4
...			14027	3	27	*	12127	A2			11.4
...			14028	3	28	*	12128	A2			11.4
...			14029	3	29	*	12129	A2			11.4
...			14030	3	30	*	12130	A2			11.4
...			14031	3	31	*	12131	A2			11.4
...			14032	3	32	*	12132	A2			11.4
...			14033	3	33	*	12133	A2			11.4
...			14034	3	34	*	12134	A2			11.4
...			14035	3	35	*	12135	A2			11.4
...			14036	3	36	*	12136	A2			11.4
...			14037	3	37	*	12137	A2			11.4
...			14038	3	38	*	12138	A2			11.4
...			14039	3	39	*	12139	A2			11.4
...			14040	3	40	*	12140	A2			11.4
...			14041	3	41	*	12141	A2			11.4
...			14042	3	42	*	12142	A2			11.4
...			14043	3	43	*	12143	A2			11.4
...			14044	3	44	*	12144	A2			11.4
...			14045	3	45	*	12145	A2			11.4
...			14046	3	46	*	12146	A2			11.4
...			14047	3	47	*	12147	A2			11.4
...			14048	3	48	*	12148	A2			11.4
...			14049	3	49	*	12149	A2			11.4
...			14050	3	50	*	12150	A2			11.4
...			14051	3	51	*	12151	A2			11.4
...			14052	3	52	*	12152	A2			11.4
...			14053	3	53	*	12153	A2			11.4
...			14054	3	54	*	12154	A2			11.4
...			14055	3	55	*	12155	A2			11.4
...			14056	3	56	*	12156	A2			11.4
...			14057	3	57	*	12157	A2			11.4
...			14058	3	58	*	12158	A2			11.4
...			14059	3	59	*	12159	A2			11.4
...			14060	3	60	*	12160	A2			11.4
...			14061	3	61	*	12161	A2			11.4
...			14062	3	62	*	12162	A2			11.4
...			14063	3	63	*	12163	A2			11.4
...			14064	3	64	*	12164	A2			11.4
...			14065	3	65	*	12165	A2			11.4
...			14066	3	66	*	12166	A2			11.4
...			14067	3	67	*	12167	A2			11.4
...			14068	3	68	*	12168	A2			11.4
...			14069	3	69	*	12169	A2			11.4
...			14070	3	70	*	12170	A2			11.4
...			14071	3	71	*	12171	A2			11.4
...			14072	3	72	*	12172	A2			11.4
...			14073	3	73	*	12173	A2			11.4
...			14074	3	74	*	12174	A2			11.4
...			14075	3	75	*	12175	A2			11.4
...			14076	3	76	*	12176	A2			11.4
...			14077	3	77	*	12177	A2			11.4
...			14078	3	78	*	12178	A2			11.4
...			14079	3	79	*	12179	A2			11.4
...			14080	3	80	*	12180	A2			11.4
...			14081	3	81	*	12181	A2			11.4
...			14082	3	82	*	12182	A2			11.4
...			14083	3	83	*	12183	A2			11.4
...			14084	3	84	*	12184	A2			11.4
...			14085	3	85	*	12185	A2			11.4
...			14086	3	86	*	12186	A2			11.4
...			14087	3	87	*	12187	A2			11.4
...			14088	3	88	*	12188	A2			11.4
...			14089	3	89	*	12189	A2			11.4
...			14090	3	90	*	12190	A2			11.4
...			14091	3	91	*	12191	A2			11.4
...			14092	3	92	*	12192	A2			11.4
...			14093	3	93	*	12193	A2			11.4
...			14094	3	94	*	12194	A2			11.4
...			14095	3	95	*	12195	A2			11.4
...			14096	3	96	*	12196	A2			11.4
...			14097	3	97	*	12197	A2			11.4
...			14098	3	98	*	12198	A2			11.4
...			14099	3	99	*	12199	A2			11.4
...			14100	3	100	*	12200	A2			11.4
...			14101	3	101	*	12201	A2			11.4
...			14102	3	102	*	12202	A2			11.4
...			14103	3	103	*	12203	A2			11.4
...			14104	3	104	*	12204	A2			11.4
...			14105	3	105	*	12205	A2			11.4
...			14106	3	106	*	12206	A2			11.4
...			14107	3	107	*	12207	A2			11.4
...			14108	3	108	*	12208	A2			11.4
...			14109	3	109	*	12209	A2			11.4
...			14110	3	110	*	12210	A2			11.4
...			14111	3	111	*	12211	A2			11.4
...			14112	3	112	*	12212	A2			11.4
...			14113	3	113	*	12213	A2			11.4
...			14114	3	114	*	12214	A2			11.4
...			14115	3	115	*	12215	A2			11.4
...			14116	3	116	*	12216	A2			11.4
...			14117	3	117	*	12217	A2			11.4
...			14118	3	118	*	12218	A2			11.4
...			14119	3	119	*	12219	A2			11.4
...			14120	3	120	*	12220	A2			11.4
...			14121	3	121	*	12221	A2			11.4
...			14122	3	122	*	12222	A2			11.4
...			14123	3	123	*	12223	A2			11.4
...			14124	3	124	*	12224	A2			11.4
...			14125	3	125	*	12225	A2			11.4
...			14126	3	126	*	12226	A2			11.4
...			14127	3	127	*	12227	A2			11.4
...			14128	3	128	*	12228	A2			11.4
...			14129	3	129	*	12229	A2			11.4
...			14130	3	130	*	12230	A2			11.4
...			14131	3	131	*	12231	A2			11.4
...			14132	3	132	*	12232	A2			11.4
...			14133	3	133	*	12233	A2			11.4
...			14134	3	134	*	12234	A2			11.4
...			14135	3	135	*	12235	A2			11.4
...			14136	3	136	*	12236	A2			11.4
...			14137	3	137	*	12237	A2			11.4
...			14138	3	138	*	12238	A2			11.4
...			14139	3	139	*	12239	A2			11.4
...			14140	3	140	*	12240	A2			11.4
...			14141	3	141	*	12241	A2			11.4
...			14142	3	142	*	12242	A2			11.4
...			14143	3	143	*	12243	A2			11.4
...			14144	3	144	*	12244	A2			11.4
...			14145	3	145	*	12245	A2			11.4
...			14146	3	146	*	12246	A2			11.4
...			14147	3	147	*	12247	A2			11.4
...			14148	3	148	*	12248	A2			11.4
...			14149	3	149	*	12249	A2			11.4
...			14150	3	150	*	12250	A2			11.4
...			14151	3	151	*</					

[illegible]

**E06867/UL230 / 3x 230V / 15kW / frequency drive**

**SYMBOL CODE**

11 F 11

- Running number
- Symbol letter
- Schedule page

**WIRE COLOR** All wiring AWG

Main Voltage 230V

**Phase**

L1

L2

L3

Earth / PE

**Colors**

- Black
- Black
- Black
- Yellow/Green

**CORE CODE**

11 11

- Running number

**Control Voltage**

Plus (24VDC)

Hook-up wire









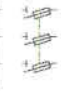














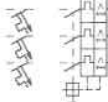

















Minus / Ground (24VDC)

- White
- White
- White

**DRAWING NUMBER**

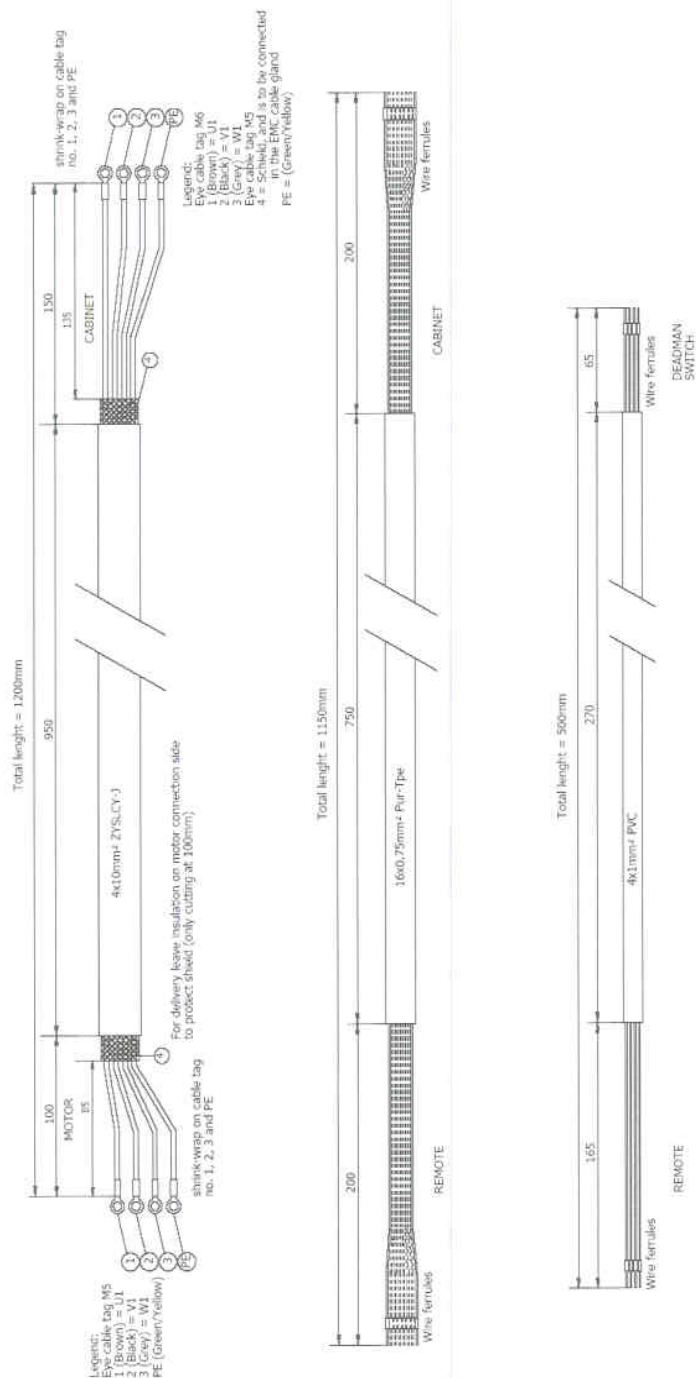
PJ#.#.#.#.#.#

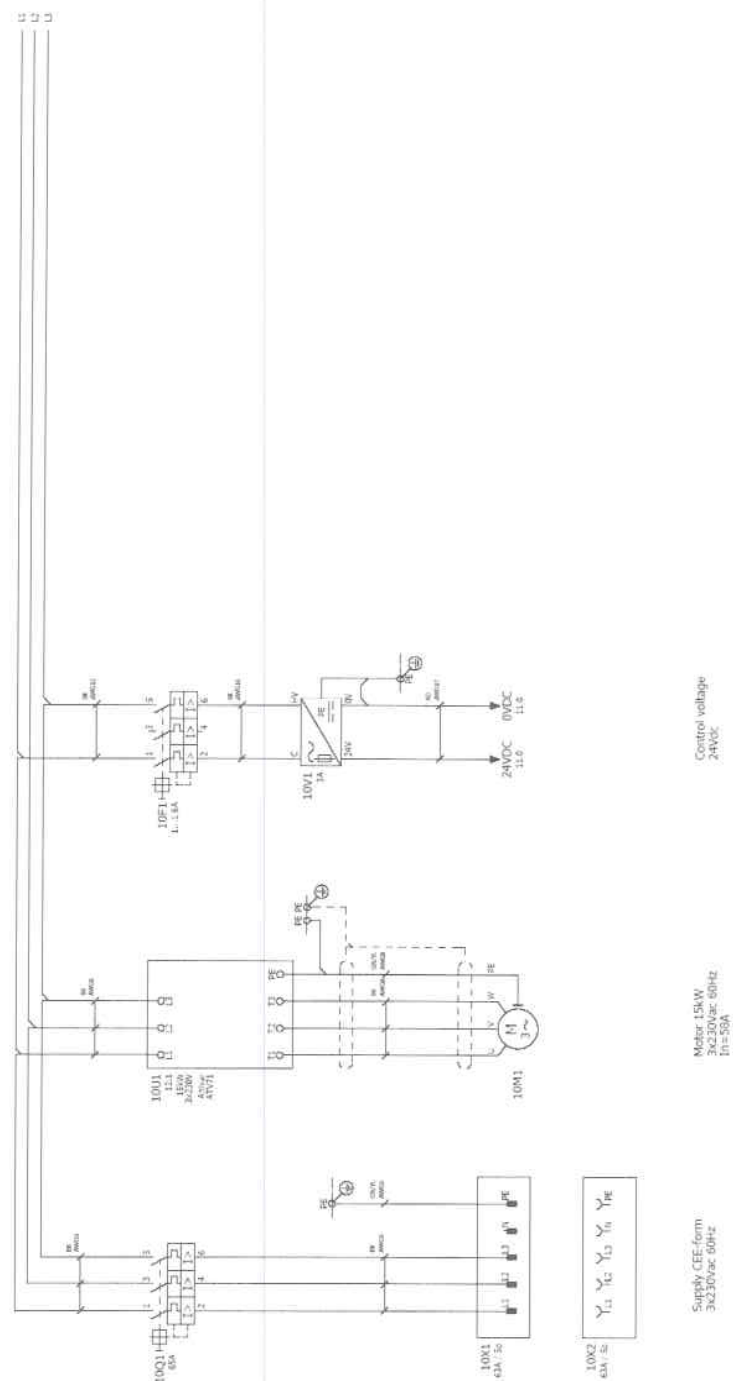
- Revision number
- Archive number
- Year

	auxiliary contact	NC contact		signal light	24 V AC/12 V		Safety fuse	intermediate
	Power contact	energized contact		horn	None		Fused switch, three-pole	switch slider
	NO contact, opens with time delay	energized, interlocked		ammeter	ammeter		Fused disconnect, three-pole	switch "3-pole"
	NO contact, closes with time delay	de-energized, interlocked		running hour counter	variable		Main switch	switch slider
	NC contact, opens with time delay	de-energized, interlocked		transformer	transformer		Circuit breaker, single-pole	miniature 1 pole
	NC contact, closes with time delay	energized, interlocked		Contactor relay coil	coil		Circuit breaker, two-pole	miniature 2 pole
	Pushbutton rebound	closure, self-locked		Contactor/relay coil, with pick-up delay	coil, self-locked		Circuit breaker, three-pole	miniature 3 pole
	Pushbutton locking	closure, self-locked		Contactor/relay coil, with drop-out delay	coil, self-locked		Power circuit breaker, motor overload switch with switch mechanism	miniature 3-pole 4-wire
	Rotary switch rebound	to 0 switch		Contactor relay coil	coil, self-locked		Valve	switch slider
	Rotary switch locking	to 0 switch		Tube light	1, self-locked		Resistor with movable contact	resistor slider
	Emergency stop rotary unlock	locking, self-locked		Resistor / Heating	resistor, self-locked		Terminal	open
	Thermostatic switch	thermostat, self-locked		Socket	socket, self-locked		Terminal with fuse	open, self-locked
	Pressure switch	pressure, self-locked		Current transformer	current transformer		Rectifier	diode
	Limit switch	limit, self-locked						
	Proximity switch	proximity, self-locked						













**E06867/UL480 / 3x 480V / 15kW / frequency drive****SYMBOL CODE**

11 F 11

- Running number
- Symbol letter
- Schedule page

**CORE CODE**

11 11

- Running number

**DRAWING NUMBER**

PJ##.##.##.##

- Revision number
- Archive number
- Year

**WIRE COLOR** All wiring AWG**Main Voltage 480Vac**

**Phase**

- L1
- L2
- L3
- Earth / PE

**Colors**

- Black
- Black
- Black
- Yellow/Green

**Control Voltage**

**Plus (24VDC)**

- White







































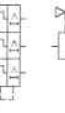



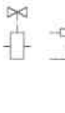











**Hook-up wire**

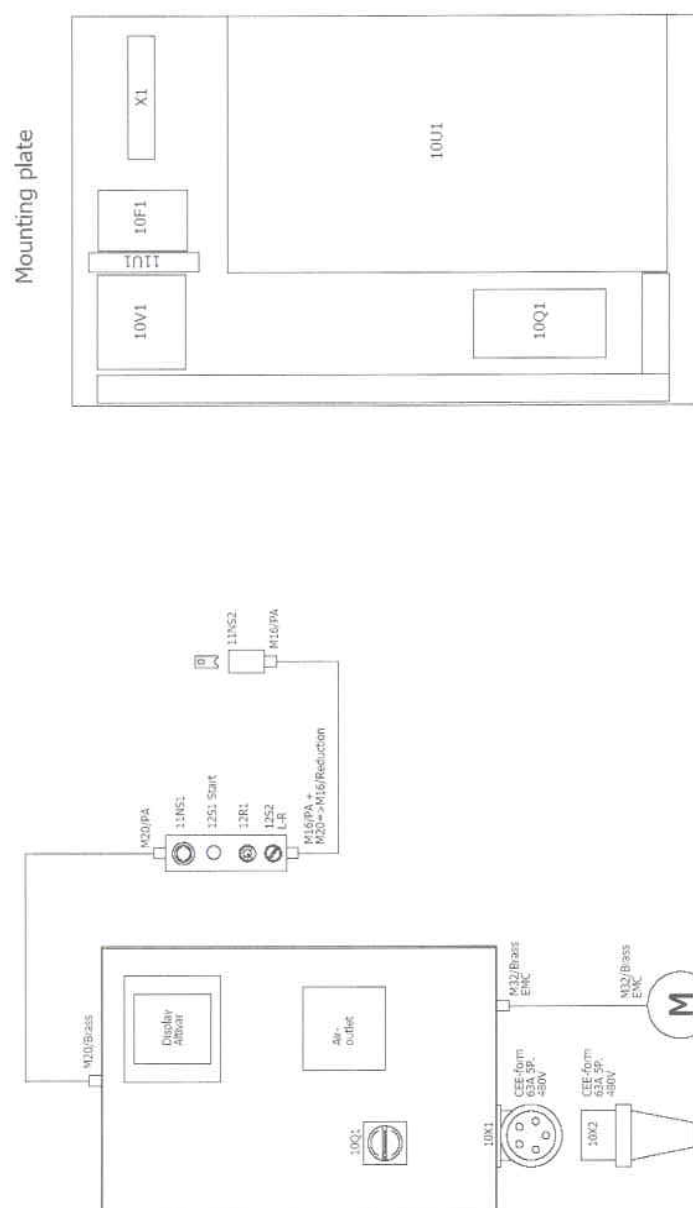
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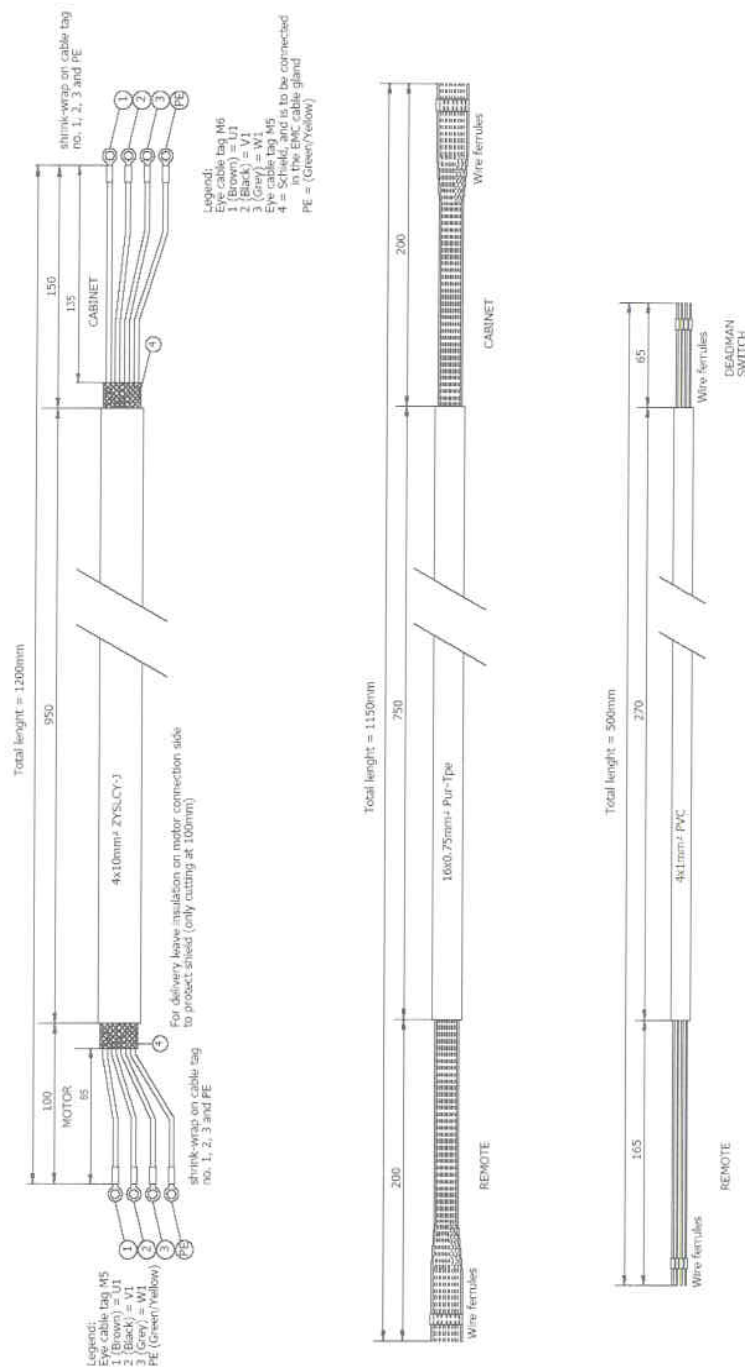
**Minus / Ground (24VDC)**

- White



	auxiliary contact	hülskontakt		signal light	signallicht		Safety fuse	sicherungs-fuse		normalerweise
	Power contact	stromkontakt		horn	horn		Fused switch, three-pole	stromschalter		normalerweise
	NO contact, opens with time delay	NO kontakt, öffnet mit zeitverzögerung		alarm bell	alarmglocke		Fused disconnect, three-pole	stromschalter "3-polig"		normalerweise
	NO contact, closes with time delay	NO kontakt, schließt mit zeitverzögerung		running hour counter	laufstundenzähler		Main switch	hauptschalter		normalerweise
	NC contact, opens with time delay	NC kontakt, öffnet mit zeitverzögerung		transformer	transformatoren		Circuit breaker, single-pole	einpoliger schaltapparat		normalerweise
	NC contact, closes with time delay	NC kontakt, schließt mit zeitverzögerung		Contactor relay coil	contactor		Circuit breaker, two-pole	zweipoliger schaltapparat		normalerweise
	Pushbutton rebound	drückknopf mit feder		Contactor relay coil with pick-up delay	contactor mit aufbauverzögerung		Circuit breaker, three-pole	dreipoliger schaltapparat		normalerweise
	Pushbutton locking	drückknopf sperrend		Contactor relay coil with drop-out delay	contactor mit absenkenverzögerung		Power circuit breaker with motor overload switch with switch mechanism	stromschalter mit motorüberlastschalter		normalerweise
	Rotary switch rebound	rotarschalter mit feder		Contactor pulse coil	contactor puls		Valve	ventil		normalerweise
	Rotary switch locking	rotarschalter sperrend		Tube light	leuchtstofflampe		Resistor with movable contact	potentiometer		normalerweise
	Emergency stop rotary unlock	notstop mit rotarsperre		Resistor / heating	heizwiderstand		Terminal	anschluss		normalerweise
	Thermostat switch	thermostatschalter		Socket	steckdose		Terminal with fuse	anschluss mit sicherung		normalerweise
	Pressure switch	druckschalter		Current transformer	stromwandler		Rectifier	gleichrichter		normalerweise
	Limit switch	endanschalter								
	Proximity switch	näherungsschalter								



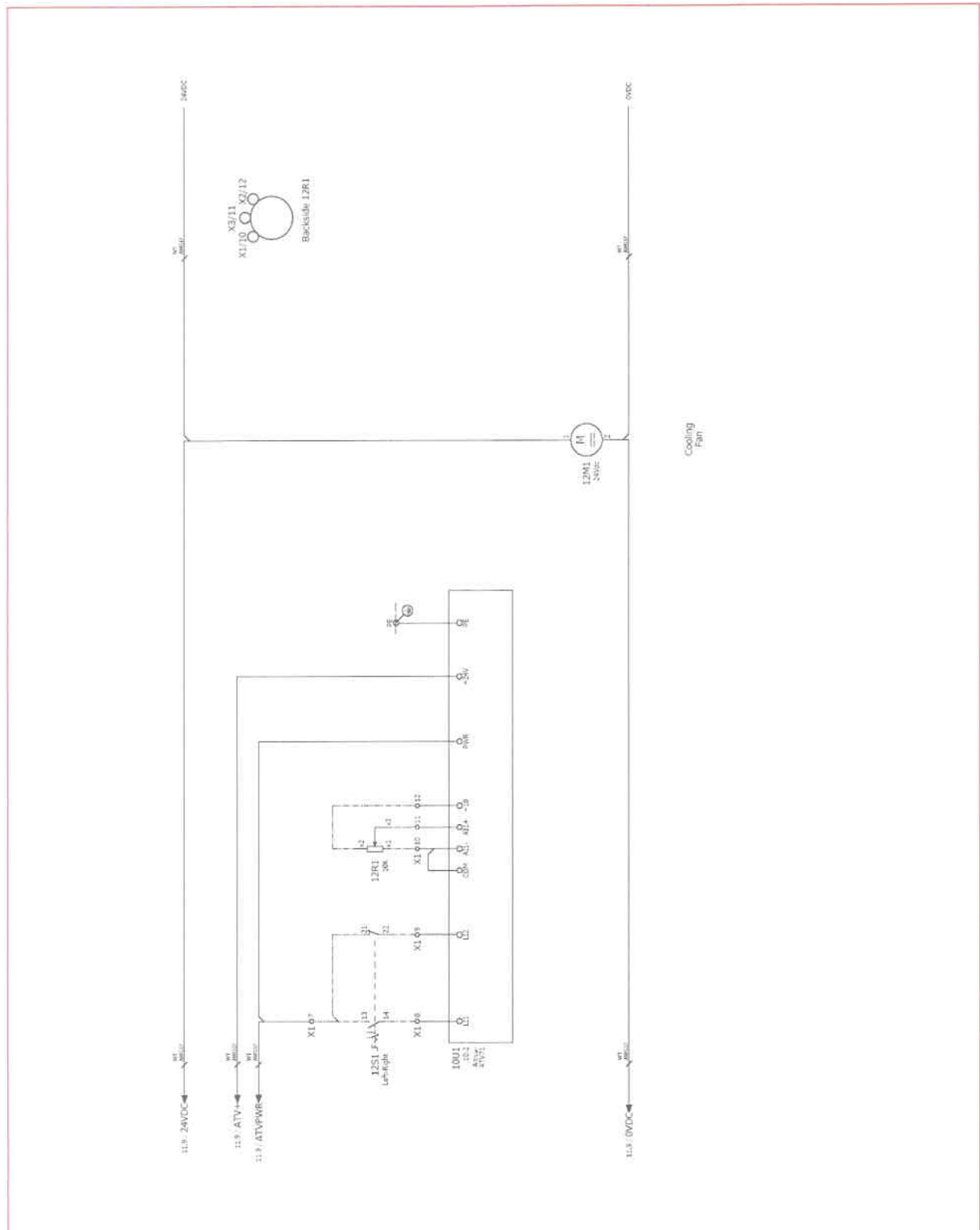




Motor 15kW  
3x480V ac 60Hz  
In=25A

Supply CEE-form  
3x480Vac 60Hz





function text	Strip X1 Terminals 24Vdc						Page / column
	Cable name	cable type	Connection point	terminal	jumper	Target designation	
			13002	1	1	+	24V1
			13003	12	2	-	24V2
			13004	3	3	+	4
			13005	3	3	+	24V3-124V4
			13006	22	4	+	24V5-124V6
			13007	13	5	+	4
			13008	14	6	+	4
			13009	15	7	+	4
			13010	16	8	+	4
			13011	17	9	+	4
			13012	18	10	+	4
			13013	19	11	+	4
			13014	20	12	+	4
			13015	21	13	+	4
			13016	22	14	+	4
			13017	23	15	+	4
			13018	24	16	+	4
			13019	25	17	+	4
			13020	26	18	+	4
			13021	27	19	+	4
			13022	28	20	+	4
			13023	29	21	+	4
			13024	30	22	+	4
			13025	31	23	+	4
			13026	32	24	+	4
			13027	33	25	+	4
			13028	34	26	+	4
			13029	35	27	+	4
			13030	36	28	+	4
			13031	37	29	+	4
			13032	38	30	+	4
			13033	39	31	+	4
			13034	40	32	+	4
			13035	41	33	+	4
			13036	42	34	+	4
			13037	43	35	+	4
			13038	44	36	+	4
			13039	45	37	+	4
			13040	46	38	+	4
			13041	47	39	+	4
			13042	48	40	+	4
			13043	49	41	+	4
			13044	50	42	+	4
			13045	51	43	+	4
			13046	52	44	+	4
			13047	53	45	+	4
			13048	54	46	+	4
			13049	55	47	+	4
			13050	56	48	+	4
			13051	57	49	+	4
			13052	58	50	+	4
			13053	59	51	+	4
			13054	60	52	+	4
			13055	61	53	+	4
			13056	62	54	+	4
			13057	63	55	+	4
			13058	64	56	+	4
			13059	65	57	+	4
			13060	66	58	+	4
			13061	67	59	+	4
			13062	68	60	+	4
			13063	69	61	+	4
			13064	70	62	+	4
			13065	71	63	+	4



