



**Blastrac bv**  
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Project description	BDC3140		
Drawing number	PJ17.01244.02		
Blastrac number			
Power supply	400V 50Hz		
Input lead	Input lead		
Control Voltage	24Vac		
Year of Manufacturing	2017		
Created on	7-6-2017	by	KR
Edit date	3-7-2017	by	KR
			Number of pages 15

			Date	8-6-2017	Project name:	BDC3140		Page description:	Titlepage /Cover sheet	Customer:	Blastrac bv.	= E1	
			Ed.	KR									+
			Appr										
Modification	Date	Name	Last print	3-7-2017						Drawing number:	PJ17.01244.02	Page <b>1</b>	





# WIRE COLOR

Main Voltage 400V

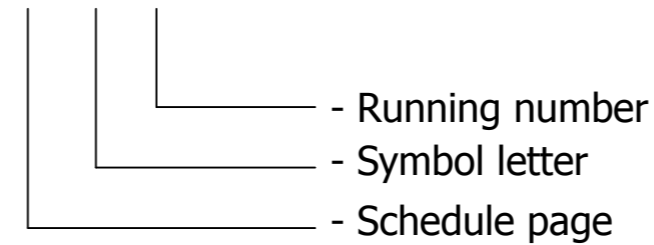
Phase	Colors
L1	- Black
L2	- Black
L3	- Black
Earth / PE	- Yellow/Green

Control Voltage

Phase (24VAC)	- Violet
Hook-up wire	- Violet
Neutral (24VAC)	- Violet

# SYMBOL CODE

11 F 11



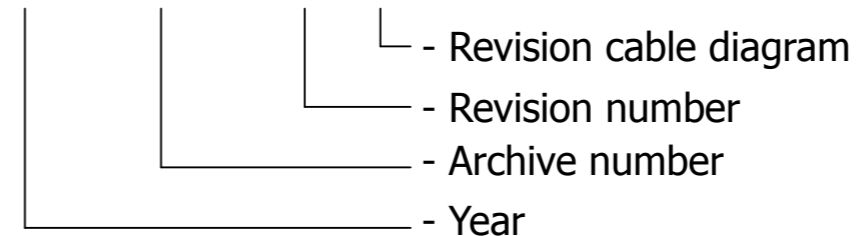
# CORE CODE

11 11



# DRAWING NUMBER

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



## Symbol abbreviations

A	Controller (PLC I/O)
B	Sensor
E	Lighting / Heating
ES	Emergency stop
F	Fuse / Circuitbreaker
H	Display device / Pilot light
JB	Junctionbox
K	Contactor / Relay coil
KT	Timer relay
M	Motor
Q	Thermal overload / motor protection / Main switch
R	Resistor / Potentiometer
S	Switch / Pushbutton
SH	Illuminated switch / Pushbutton
T	Transformer
U	Controller / DC supply
V	Power supply
W	Cable
SW	Single wire
X	Terminal strip / Plug / Socket
Y	Solenoid valve

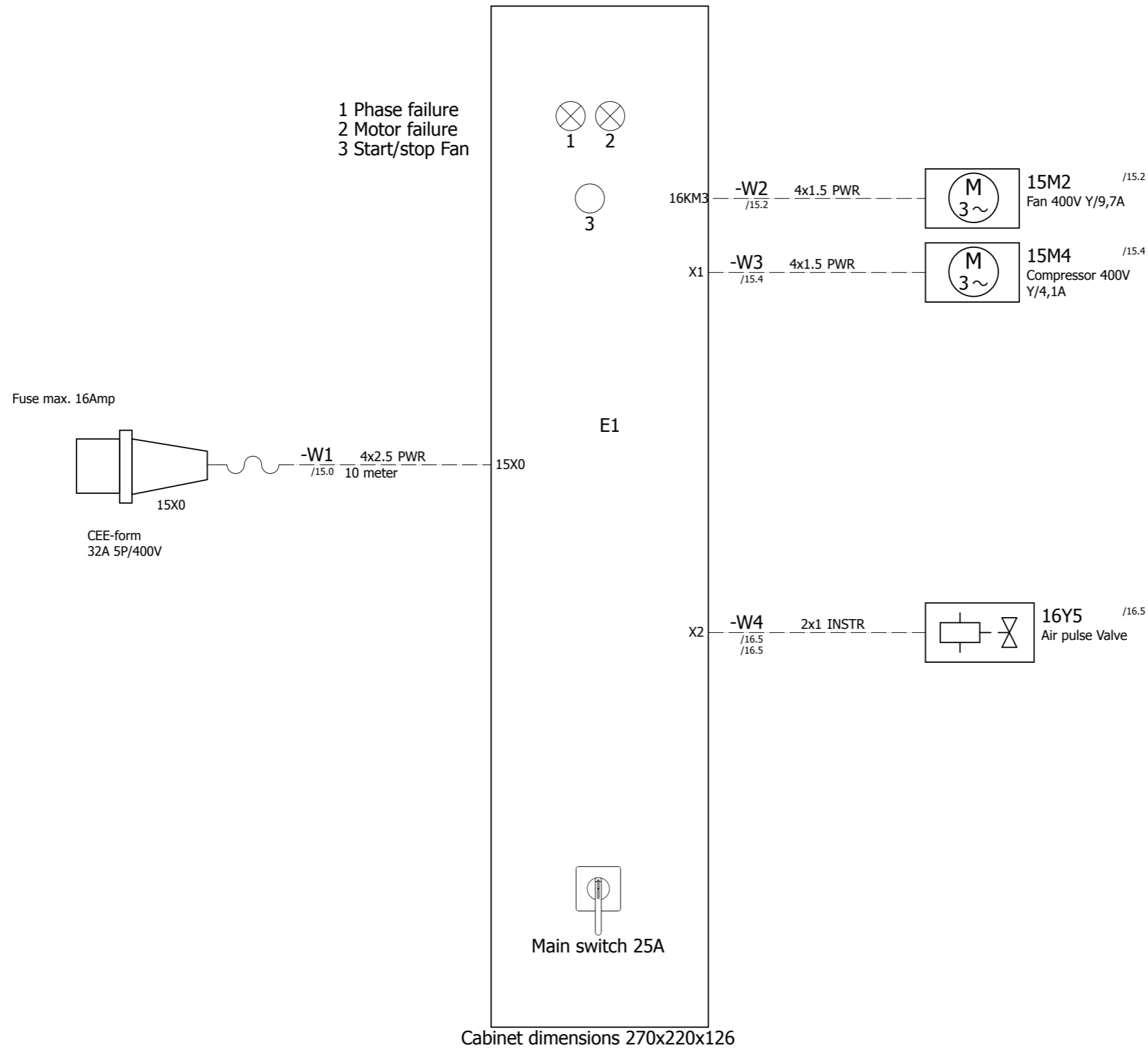
Colour abbreviations  
Conform IEC 60757

BK	Black
BN	Brown
BU	Blue
GD	Gold
GN	Green
GNYE	Green/Yellow
GY	Grey
OG	Orange
PK	Pink
RD	Red
SR	Silver
TQ	Turquoise
VT	Violet
WH	White
YE	Yellow

PWR = Power cable  
INSTR = Instrument cable  
SC = screened cable (screen is also PE)

The wire cross sections in this diagram are referring to a maximum length of 30m at an ambient temperature of 25°C they are only a recommendation, any change in length and ambient temperature will result in cable core size change.

0	1	2	3	4	5	6	7	8	9		
	auxiliary contact hulpcontact		signal light signaallamp		Safety fuse smeltveiligheid		Power contact vermogenscontact		horn hoorn		Fused switch, three-pole schakelbare scheid
	NO contact, opens with time delay maakcontact, vertraagd open		amp. meter amperemeter		Fused disconnect, three-pole scheid "klapbak"		NO contact, closes with time delay maakcontact, vertraagd sluitend		running hour counter urenteller		Main switch hoofdschakelaar
	NC contact, opens with time delay verbreekcontact, vertraagd open		transformer transformator		Circuit breaker, single-pole installatieautomaat 1-polig		NC contact, closes with time delay verbreekcontact, vertraagd sluitend		Contactor coil relay coil spoel		Circuit breaker, two-pole installatieautomaat 2-polig
	Pushbutton rebound drukknop terugverend		Contactor/relay coil with pick-up delay Spoel met opkomvertraging		Circuit breaker, three-pole installatieautomaat 3-polig		Pushbutton locking drukknop blijvend		Contactor/relay coil with drop-out delay spoel met afvalvertraging		Power circuit breaker motor overload switch with switch mechanism motorbeveiligingsschakelaar
	Rotary switch rebound tip draaischakelaar		Contactor pulse coil relay pulse coil, spoel puls		Valve elektrisch bediende klep		Rotary switch locking draaischakelaar		Tube light TL verlichting		Resistor with movable contact regelbare weerstand
	Emergency stop rotary unlock noodstop met draaibare vrijgave		Resistor / Heating weerstand verwarming		Terminal rijgklem		Thermostatic switch thermostaat hygrostaat		Socket wandcontactdoos		Terminal with fuse rijgklem met zekering
	Pressure switch drukschakelaar		Current transformer stroomtransformator		Busbar connection Verzamelrail		Limit switch eindschakelaar		Wire termination Not connected		Rectifier gelijkrichter
	Proximity switch naderingsschakelaar		Wire termination Insulated								



PWR = Power cable  
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Date	9-6-2017
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Project name:	BDC3140
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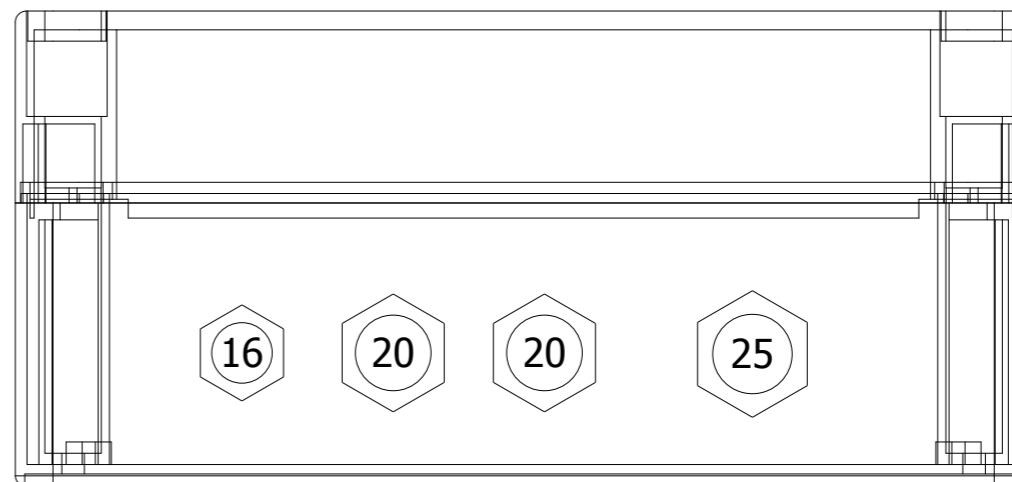
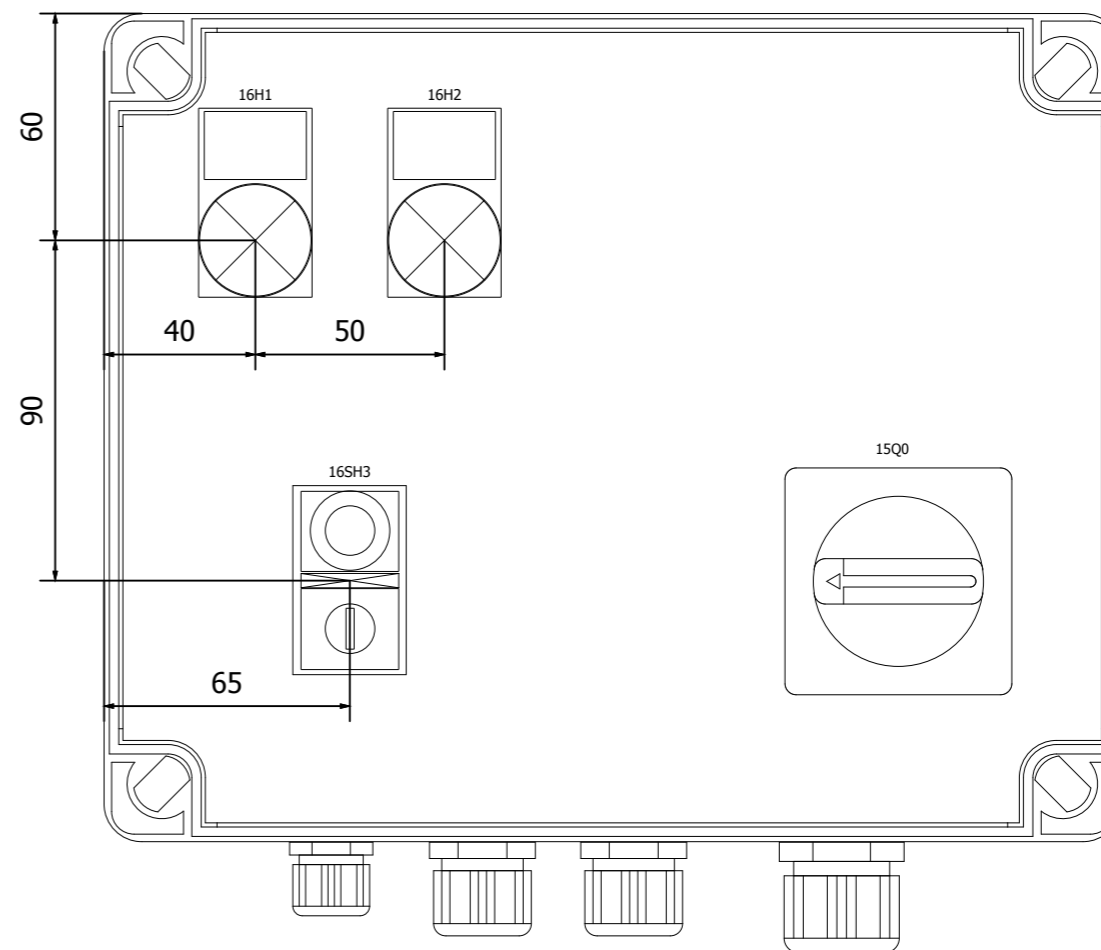
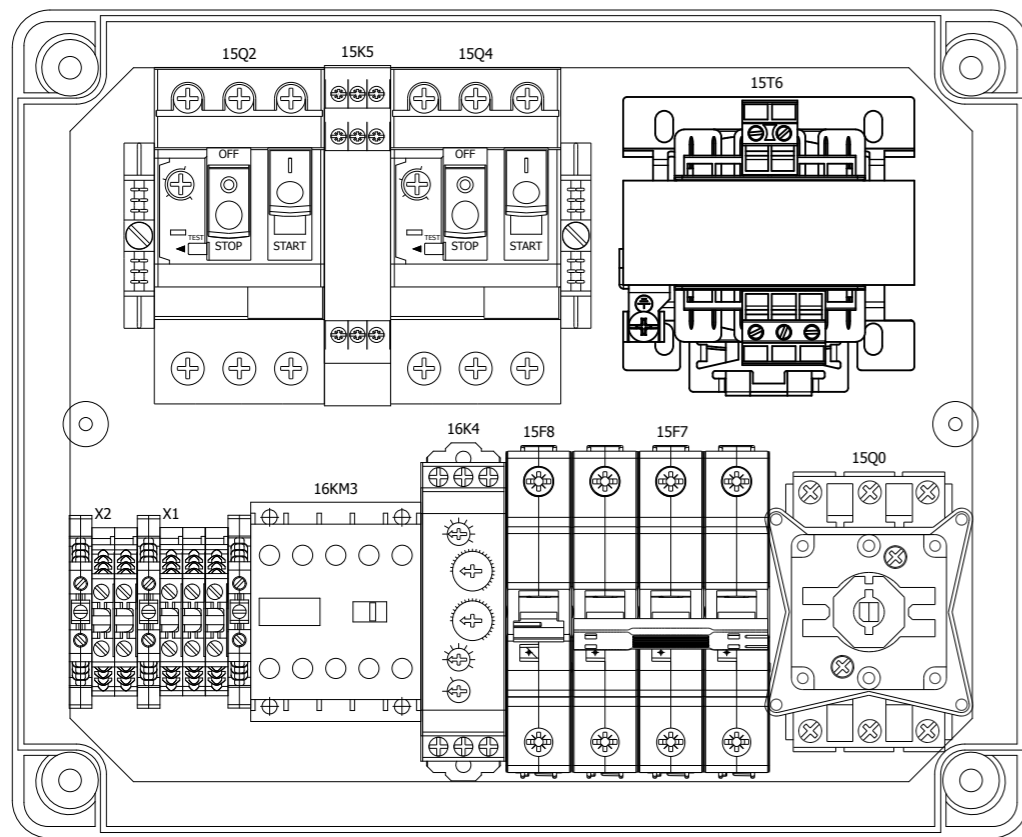


Page description:	Cable diagram
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7MP



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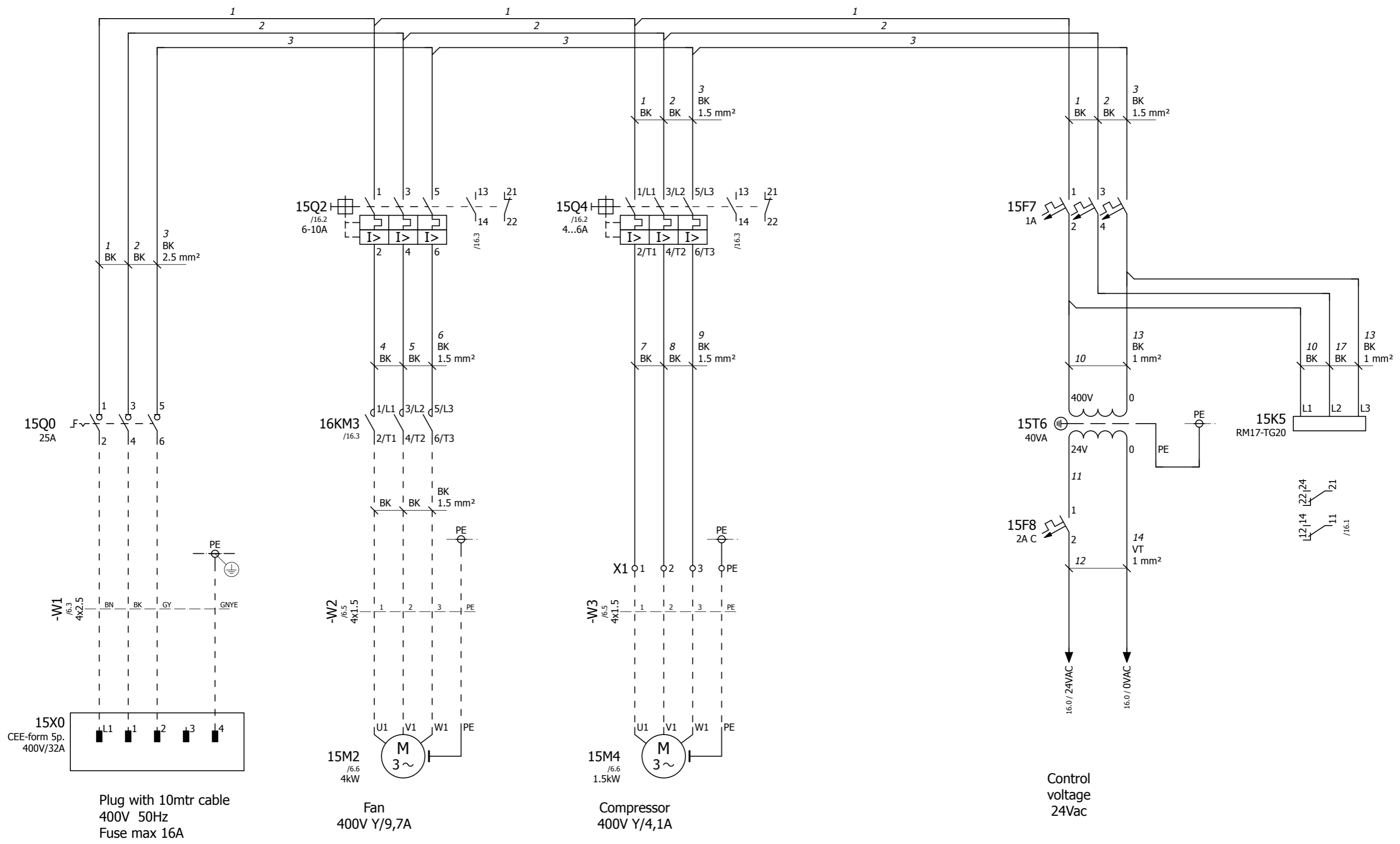
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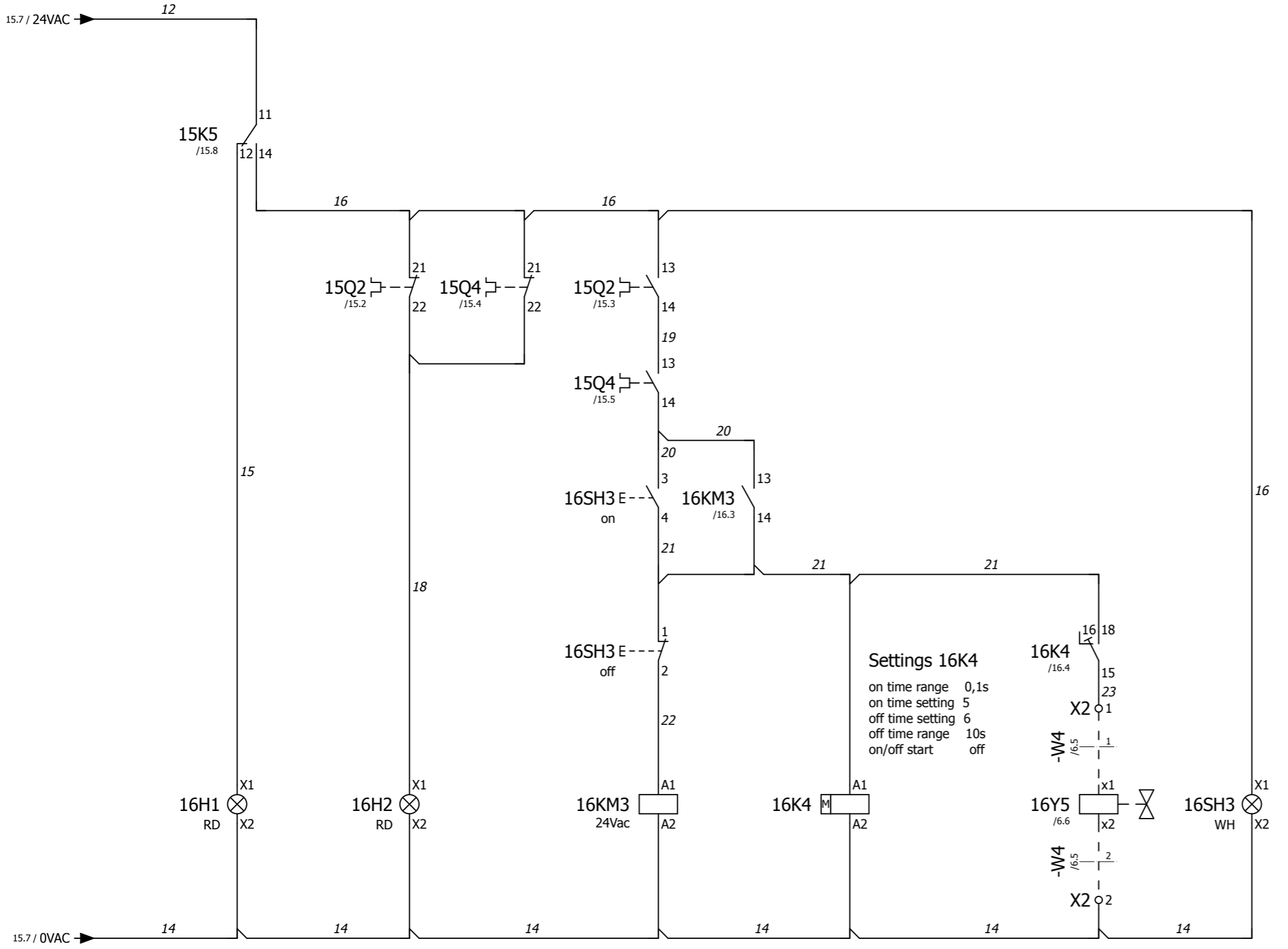
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Fase Incorrect

Motor Failure

Fan

Pulse Timer

Air pulse Valve

Control voltage on

Settings 16K4  
 on time range 0,1s  
 on time setting 5  
 off time setting 6  
 off time range 10s  
 on/off start off

1/L1 2/T1 /15.2  
 3/L2 4/T2 /15.2  
 5/L3 6/T3 /15.3  
 13 14 /16.4  
 18 15 /16.5  
 16

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Ed.	KR
Appr	
Last print	3-7-2017
Modification	Date
	Name

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Page description:	Control Voltage
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Customer:	Blastrac bv.
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# Parts list

device tag	Quantity	designation	Type number	Brand	Blastrac number
-X1	3	Conn. railkl. 4MM2 grijs WK4/U	VU4-4 GRIJS CONN.R.K	Wieland	E07829
-X1	3	Aardkl. 4MM2 ge/gr WK4SL/u	VUPE 4-4 CONN.AARDKL	Wieland	E01197
-X2	2	Conn. railkl. 4MM2 grijs WK4/U	VU4-4 GRIJS CONN.R.K	Wieland	E07829
-7MP	1	Hermetic Box 270x220x126 IP65/ Index: 2720-00	HERMETIC BOX		
-7MP	1	Cable gland M16*1.5 polyamide 50.616	WARTEL PA M16*1.5	Jacob	E01196
-7MP	2	Cable gland M20*1.5 polyamide 50.620	WARTEL PA M20*1.5	Jacob	E07887
-7MP	1	Cable gland M25*1.5 polyamide 50.625	WARTEL PA M25*1.5	Jacob	E07978
-7MP	1	Cable gland nut M16*1.5 polyamide 50.216PA	WARTELMOER PA M16	Jacob	E07890
-7MP	2	Cable gland nut M20*1.5 polyamide 50.220PA	WARTELMOER PA M20	Jacob	E07889
-7MP	1	Cable gland nut M25*1.5 polyamide 50.225PA	WARTELMOER PA M25	Jacob	E07979
-7MP	10	Ozoflex neoprene cable 4*2.5	H07RN-F 4 G 2.5 MM2	Eupen Cable	E08285
-7MP	8	Internal wire 1,0mm2 red, 90 degr.	30-309001005	Helukabel	E08135
-7MP	2	Internal wire 1.5mm2 black, 90 degr.	30-309001501	Helukabel	E08134
-7MP	1	Internal wire 1.5mm2 yellow/green 90 degr.	30-309001502	Helukabel	E08133
-7MP	2	Internal wire 2.5mm2 black, 90 degr.	30-309002501	Helukabel	E08137
-7MP	1	Several Resopal	RESOPAL DIVERS	Generic	
-15F7	1	Circuit breaker AB 3P 1A C-kar	1492-SPM3C010		
-15F8	1	Circuit breaker AB 1P 2A C-kar	C60N-1492-SPM1C020	Allen Bradley	E08018
-15K5	1	PHASE SEQUENCE MONITORING RELAYS RM17-T - range 183-484 VAC	RM17-TG20	Schneider Electric	E10909
-15Q0	1	Main switch complete 25A 3P	VCCF0	Schneider Electric	E13011
-15Q2	2	Endbracket V4 small 9708/2S35	EINDSTEUN V4 CON.ACC	Wieland	E07828
-15Q2	1	Motor circuit breaker 6,0...10,0A	GV2-ME14	Schneider Electric	E00554 / E05163
-15Q2	1	Auxiliary contact block 1NO + 1NC for GV2 & GV3 front side	GV-AE11	Schneider Electric	333-3455
-15Q4	1	Motor circuit breaker 4,0...6,3A	GV2-ME10	Schneider Electric	E01557 / MP04072
-15Q4	1	Auxiliary contact block 1NO + 1NC for GV2 & GV3 front side	GV-AE11	Schneider Electric	333-3455
-15Q4	2	Endbracket V4 small 9708/2S35	EINDSTEUN V4 CON.ACC	Wieland	E07828
-15T6	1	MTS 1-Phase Safety Transformer/P:40VA IN:230/400VAC OUT:24VA	86340		
-15X0	1	5p/32A/6h 400V male plug IP44	ABL S52S30	ABL	
-16H1	1	Legend holder 30 x 50 mm for legend 18 x 27 mm unmarked	ZBZ-35	Schneider Electric	E05080
-16H1	1	Red pilot light head Ø22 plain lens for integral LED	ZB5-AV043	Schneider Electric	E00360
-16H1	1	Red light block with body/fixing collar integral LED 24V	ZB5-AVB4	Schneider Electric	E05072
-16H2	1	Legend holder 30 x 50 mm for legend 18 x 27 mm unmarked	ZBZ-35	Schneider Electric	E05080
-16H2	1	Red pilot light head Ø22 plain lens for integral LED	ZB5-AV043	Schneider Electric	E00360
-16H2	1	Red light block with body/fixing collar integral LED 24V	ZB5-AVB4	Schneider Electric	E05072
-16K4	1	Solid-state Twin Timer/AC/DC24-240	OMRON H3DK-F	Omron	
-16KM3	1	Contacto LC1-K - 3 poles - AC-3 440V 12 A - coil 24 V AC	LC1-K12-10-B7	Schneider Electric	E08252
-16SH3	1	Green flush/red flush illuminated double-headed pushbutton Ø	ZB5-AW7A3741	Schneider Electric	E07804
-16SH3	1	Single contact block with body/fixing collar 1NO+1NC screw c	ZB5-AZ105	Schneider Electric	E05004
-16SH3	1	Transparent boot for rectangular multiple-headed pushbutton	ZBA-710	Schneider Electric	E05070
-16SH3	1	White light block for head Ø22 integral LED 24V screw clamp	ZBVB1		