



**Blastrac bv**  
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Project description **BMG-735 SC UL**  
 Drawing number **PJ09.01037.03**  
 Arch. number **E06866/UL230**

Power supply **3x230V 60Hz**  
 Input lead  
 Control Voltage **24Vdc**

Year of Manufacturing **2009**

Remarks **Preliminary**

Created on **15-12-2009**

Edit date **8-2-2011** by \_\_\_\_\_ Number of pages **14**

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2.a

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Revision	Date	Discription	Remark	Editor
01	14-01-2010	Modification part list	Engenering Art4	FJK
02	22-01-2010	Control wire color	Engenering Art4	FJK
03	24-02-2010	EMC, Fan control and Cut out cabinet changed	Engenering Art4	HvdB

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Project name: **BMG-735 SC UL**



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## WIRE COLOR All wiring AWG

Main Voltage 230V

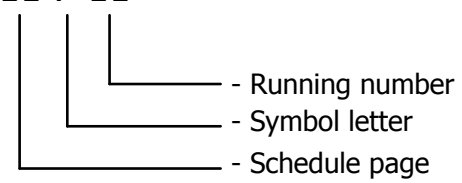
<u>Phase</u>	<u>Colors</u>
L1	- Black
L2	- Black
L3	- Black
Earth / PE	- Yellow/Green

Control Voltage

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

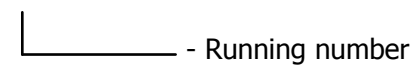
## SYMBOL CODE

11 F 11



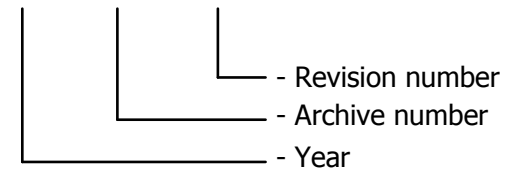
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## DRAWING NUMBER

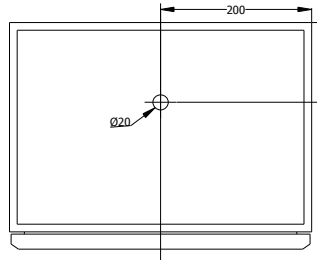
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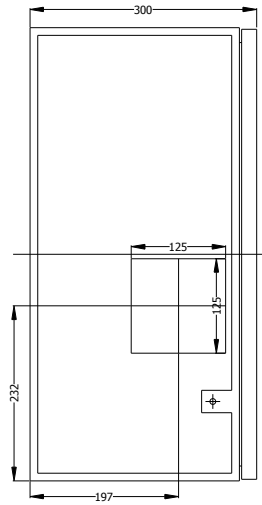
	auxiliary contact	hulpcontact		signal light	signaallamp		Safety fuse	smeltveiligheid
	Power contact	vermogenscontact		horn	hoorn		Fused switch, three-pole	schakelbare scheider
	NO contact, opens with time delay	maakcontact, vertraagd open		apm.meter	amperemeter		Fused disconnect, three-pole	scheider "klapbak"
	NO contact, closes with time delay	maakcontact, vertraagd sluitend		runninghour 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 metzekering
	Pressure switch	drukschakelaar		Current transformer	stroomtransformator		Rectifier	gelijkrichter
	Limit switch	eindschakelaar						
	Proximity switch	naderingsschakelaar						

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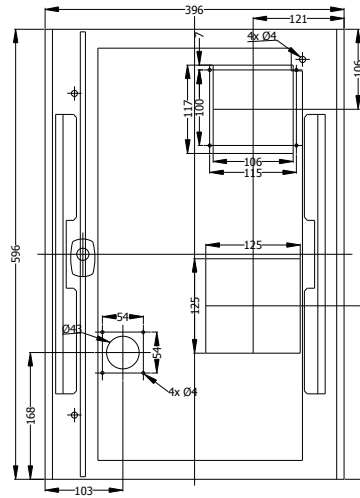
TOP VIEW



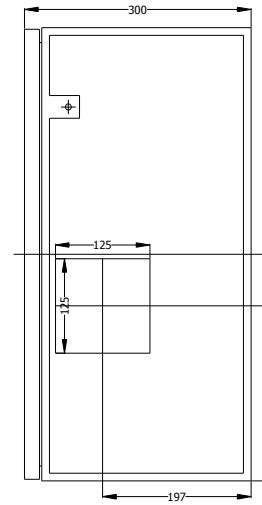
LEFTHAND VIEW  
(Fan)



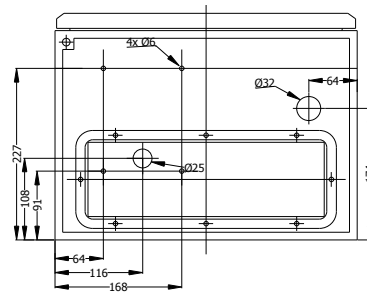
FRONT VIEW



RIGHTHAND VIEW  
(Filter)



BOTTOM VIEW



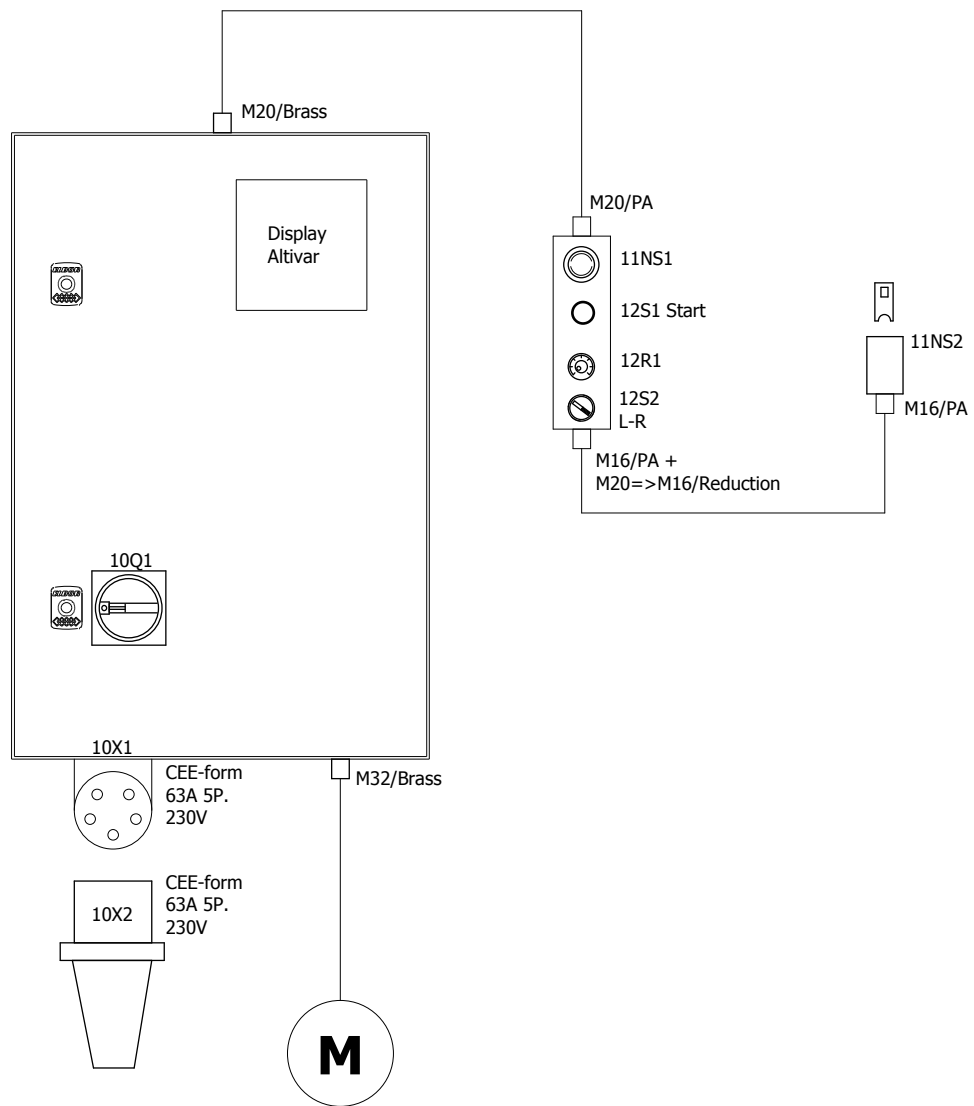
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**BMG-735 SC UL**

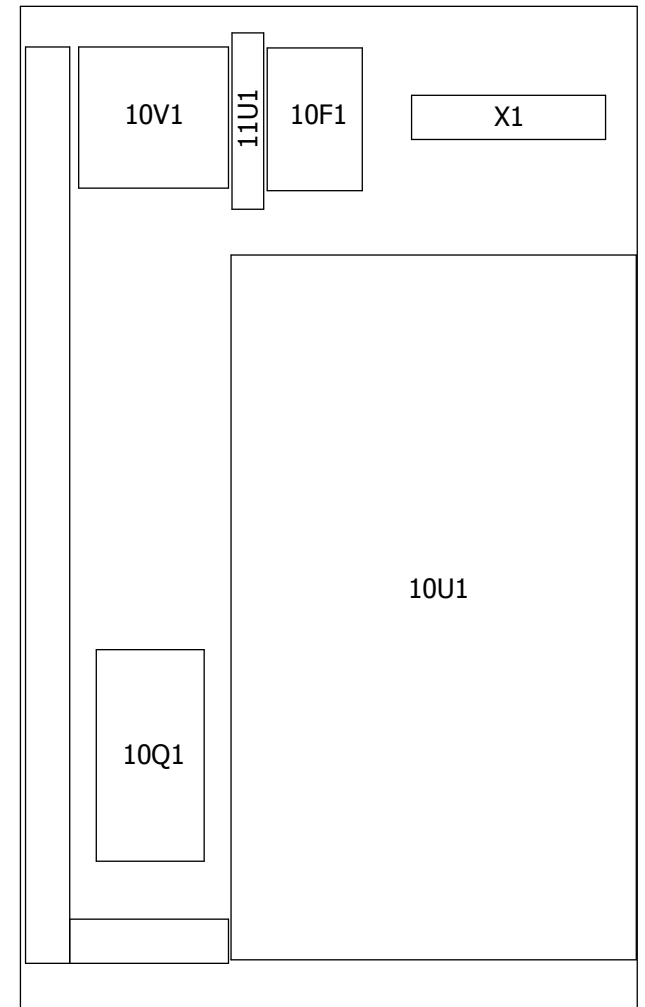


Page description:  
**Panel Layout**

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### Mounting plate



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Project name:  
**BMG-735 SC UL**

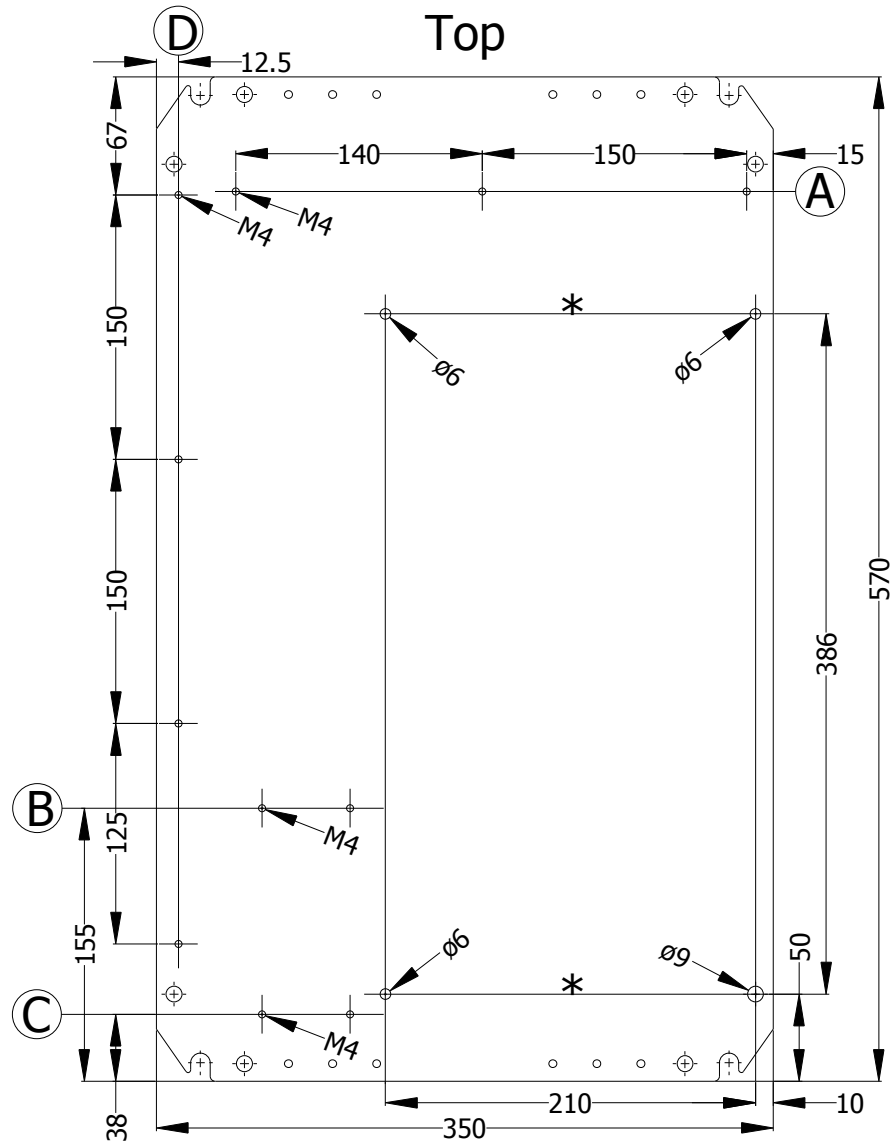


Page description:  
**Panel Block diagram**

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# Mounting plate



- A = DIN-rail L=320mm (3xM4)
- B = DIN-rail L=90mm (2xM4)
- C = Cable conduit 25x60mm L=90mm (2xM4)
- D = Cable conduit 25x60mm L=520mm (4xM4)

Note \*) transport securing ATV71H mounted in this position under mountingplate

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Project name:	BMG-735 SC UL
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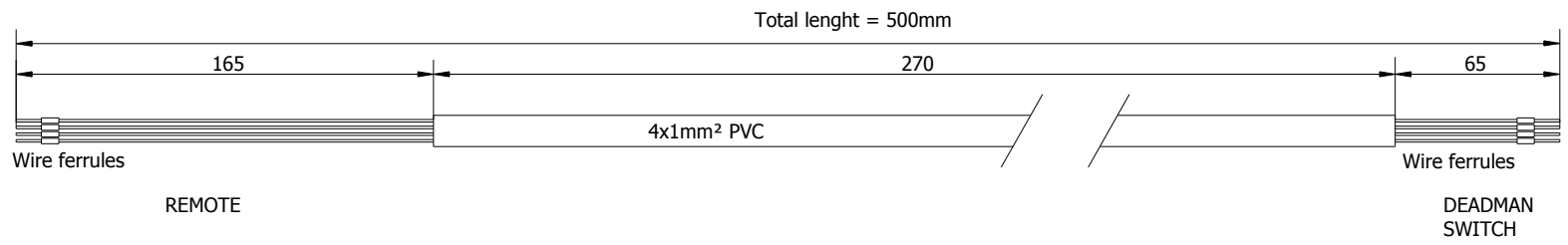
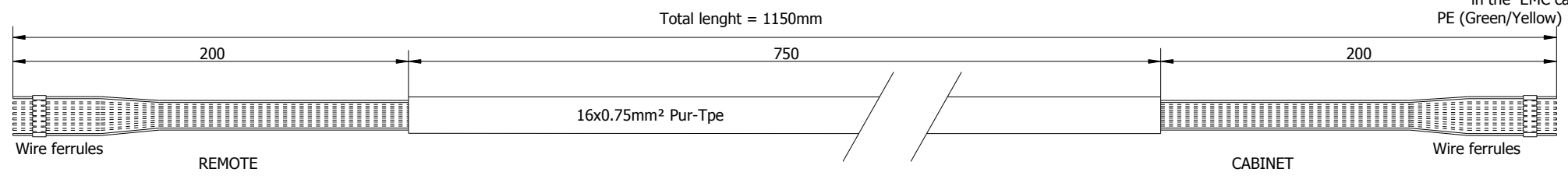
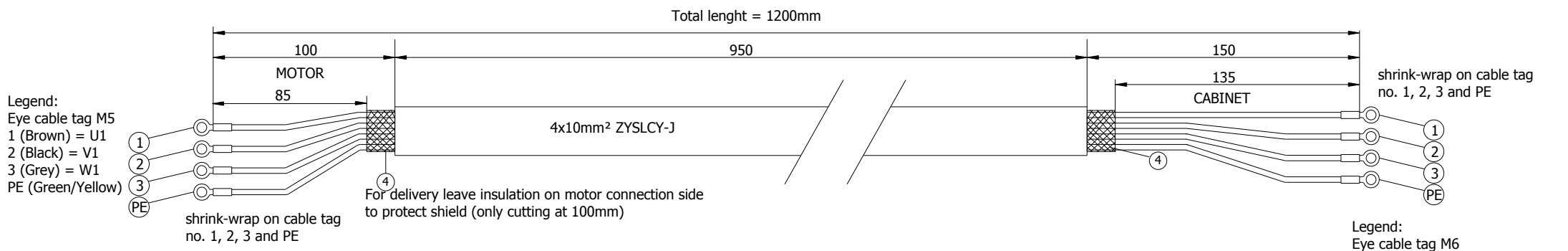


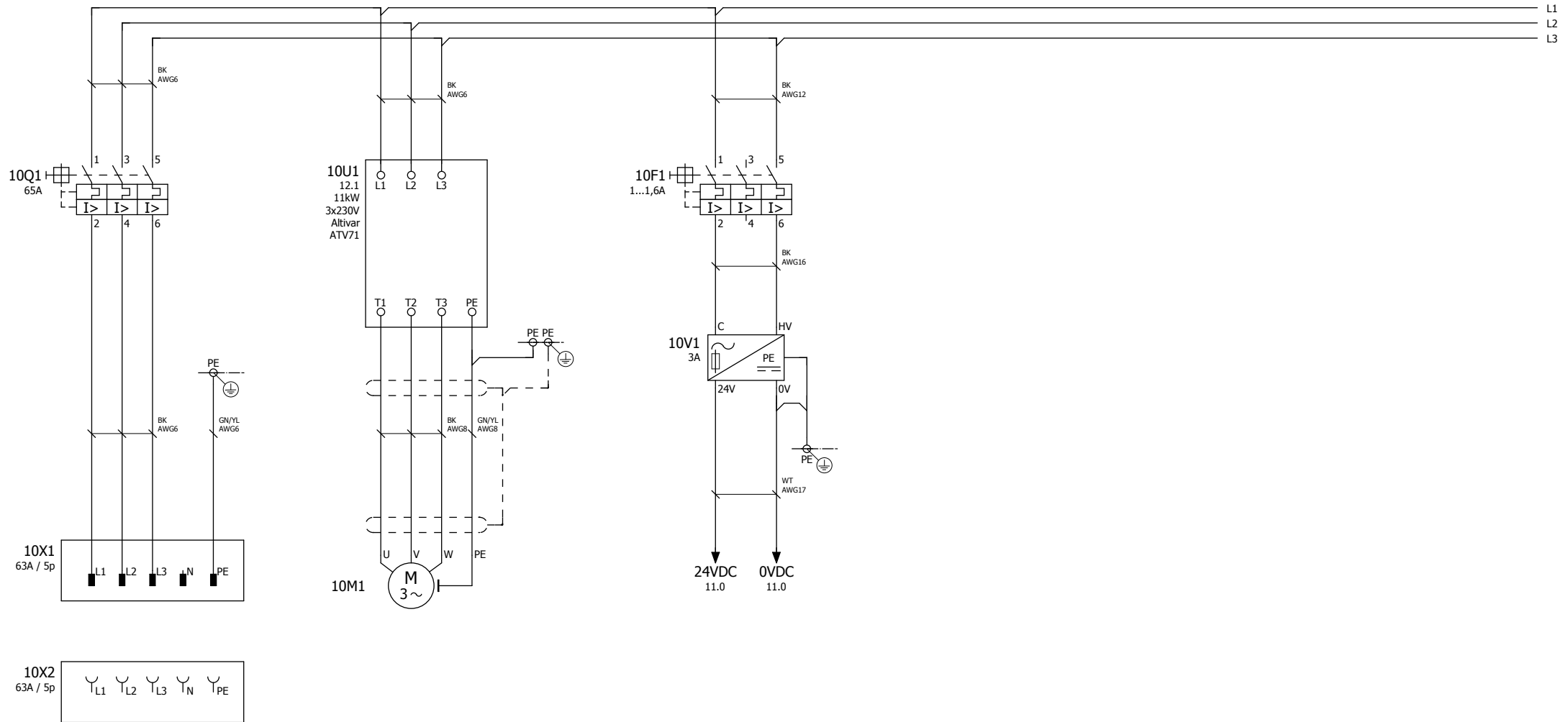
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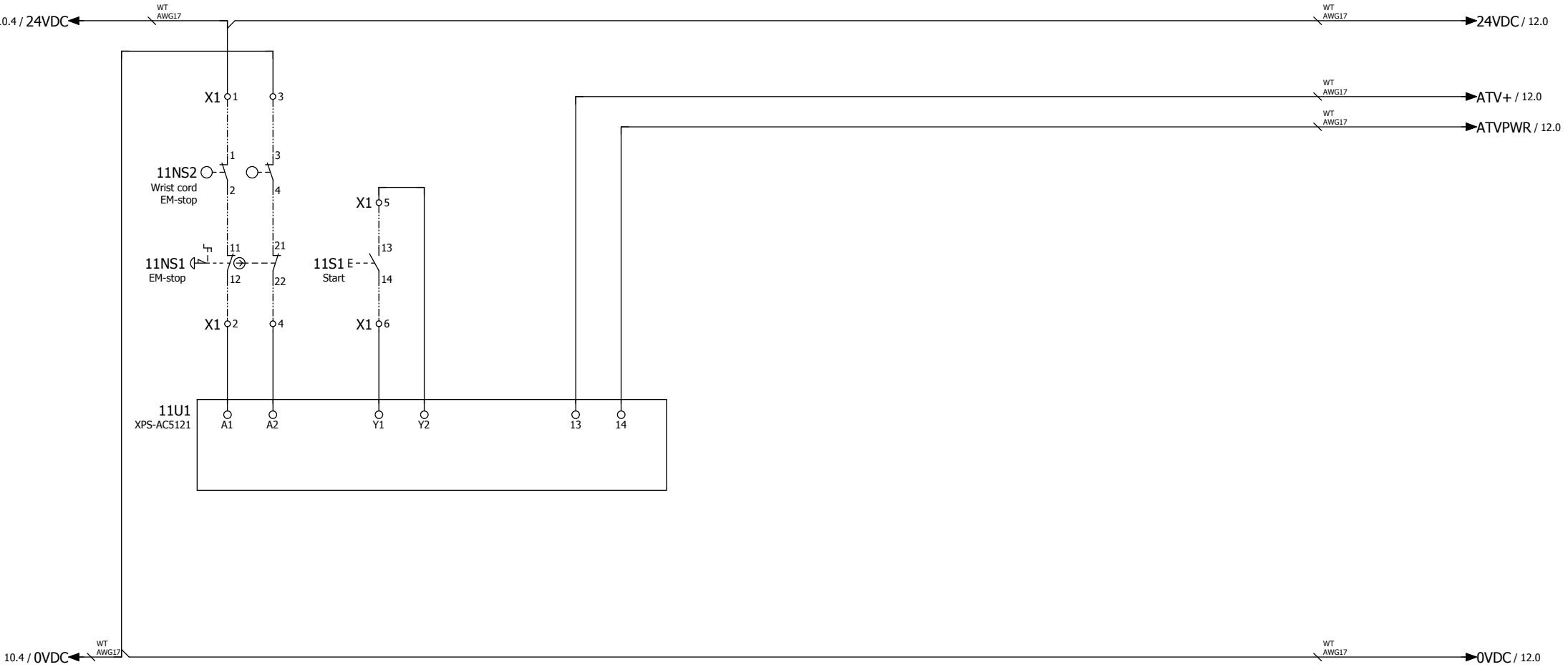


Supply CEE-form  
3x230Vac 60Hz

Motor 11kW  
3x230Vac 60Hz  
In=42A

Control voltage  
24Vdc

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			Last print	8-2-2011

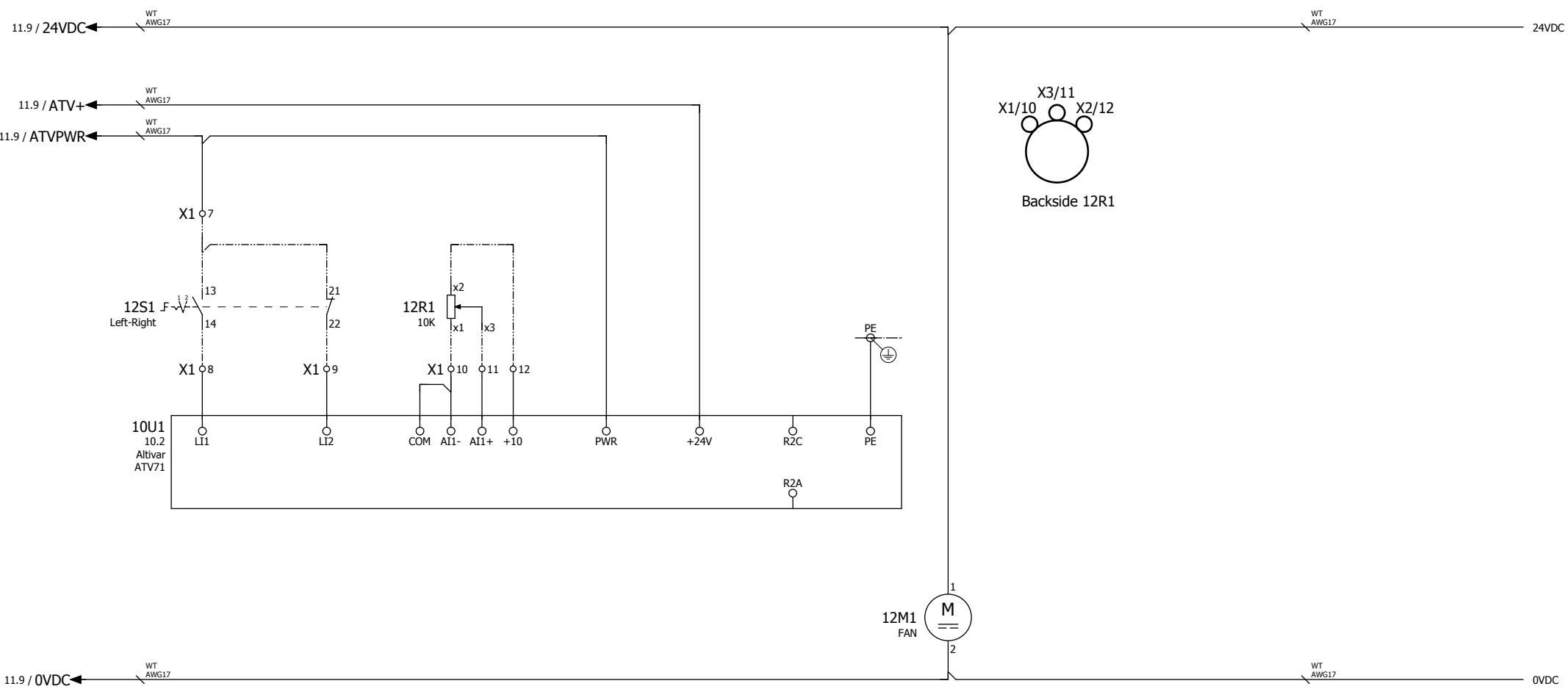
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Page description: **Control Current**

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Page description: **Control Current**

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# Parts list

device tag	Quantity	designation	Type number	part number
CAB	1	Enclosure 600x400x300 with mounting plate 570x350	MAS 0604030	MAS 0604030
PG	1	Cable Gland M32*1.5 Nickel-plated EMC	50.632 M/EMV	50.632 M/EMV
PG	1	Locknut M32*1.5 Nickel-plated EMC	50.232 M/POT	50.232 M/POT
PG	1	Cable Gland M20*1.5 Nickel-plated	WARTEL L-M20*1.5	50.620 M-L
PG	1	Locknut M20*1.5 Nickel-plated	WARTELMOER M20	50.220 M
PG	1	Cable Gland M20*1.5	WARTEL PA M20*1.5	50.620 PA7035
PG	2	Locknut M20*1.5	WARTELMOER M20	50.220 PA7035
PG	2	Cable Gland M16*1.5	WARTEL PA M16*1.5	50.616 PA7035
PG	1	Locknut M16*1.5	WARTELMOER M16	50.216 PA7035
PG	1	Reduction M20 -> M16*1.5	Reduction PA M20->M16*1.5	M20M16PA
PG	1	Locknut M25*1.5 Nickel-plated EMC	50.225 M/POT	50.225 M/POT
PG	1	Cable Gland M25*1.5 Nickel-plated EMC	50.625 M/EMV	50.625 M/EMV
CRB	1	Enclosure RAL7035/7016 for 4 buttons	XAL D04	XAL D04
10X1	1	63A CEE-form Wall outlet socket 9h IP67	ABL G53S25	G53S25
10X2	1	63A CEE-form Socket 9h IP67	ABL K53S25	K53S25
10Q1	1	Motor circuit breaker 65A 3p	TELE GV3-P65	GV3 P65
10Q1	1	Large spacing UL	TELE GV3-G66	GV3 G66
10Q1	1	Axle + black ON/OFF handle	TELE GV3AP03	GV3AP03
10U1	1	Frequency controller 11kW 3x230V	ATV71 HD11 M3X 3*230V	ATV71 HD11 M3X
10F1	1	Transformer circuit breaker 1..1.6A	GV2 RT06	GV2RT06
10V1	1	Power Supply 400/24V 3A	ABL8RPS24030	ABL8RPS24030
11U1	1	Emergency stop relay	XPS-AC5121	XPS-AC5121
11NS2	1	Safety switch + Pin	XCS-PA792 + XCS-Z11	XCS-PA792 + XCS-Z11
11NS1	1	Emergency stop	ZB5 AS844	ZB5 AS844
11NS1	2	element NC XAL	ZEN L1121	ZEN L1121
11S1	1	Pushbutton GREEN "START"	ZB5 AA333	08.01.0237
11S1	1	element NO XAL	ZEN L1111	ZEN L1111
12S1	1	Switch handle	ZB5 AD2	ZB5 AD2
12S1	1	element NC XAL	ZEN L1121	ZEN L1121
12S1	1	element NO XAL	ZEN L1111	ZEN L1111
12R1	1	Trim-pot 10K	Potmeterset 10K ZB4	Potmeterset 10K ZB4
12R1	1	Pot.meter	ZB5 AD912	ZB5 AD912
12M1	1	Fan	FAN 8314	FAN 80*80*32 24VDC
12M1	1	Fan filter		221-336 kast kl.beh.
12M1	1	Fan finger guard		250-1612 kast kl.beh.