



Blastrac bv
Utrechthaven 12
3433 PN Nieuwegein
Netherlands
+31(0)30-6018866
+31(0)30-6018333

Project description BMG 535/580P UL SD
Drawing number PJ09.01031.04
Arch. number E06868/UL230

Power supply 3x230V 60Hz
Input lead
Control Voltage 24VAC
Year of Manufacturing 2009
Remarks Preliminary

Created on 27-11-2009
Edit date 8-2-2011 by Number of pages 14

WIRE COLOR All wiring AWG

Main Voltage 230V

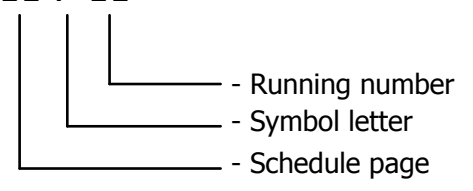
<u>Phase</u>	<u>Colors</u>
L1	- Black
L2	- Black
L3	- Black
Earth / PE	- Yellow/Green

Control Voltage

Plus (24VAC)	- Red
Hook-up wire	- Red
Minus / Ground (24VAC)	- Red

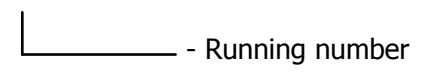
SYMBOL CODE

11 F 11



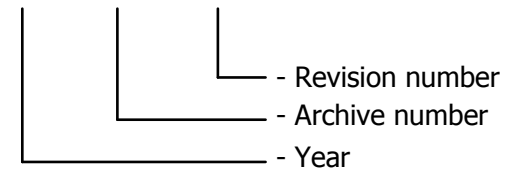
CORE CODE

11 11



DRAWING NUMBER

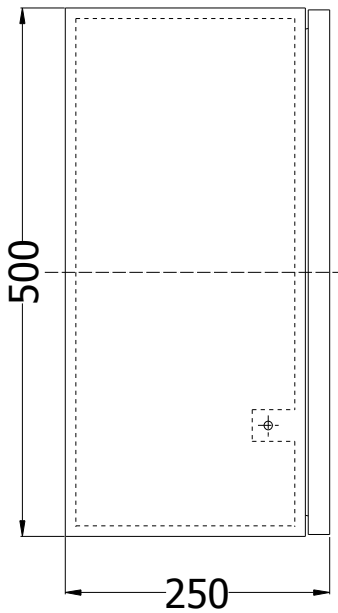
PJ##.####.##



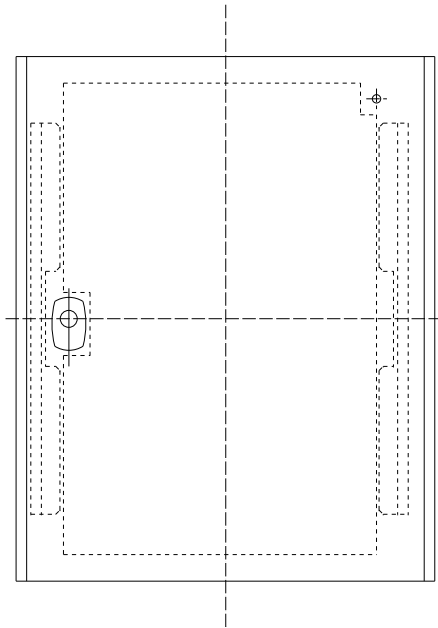
	auxiliary contact	hulpcontact		signal light	signaallamp		Safety fuse	smeltveiligheid
	Power contact	vermogenscontact		horn	hoorn		Fused switch, three-pole	schakelbare scheider
	NO contact, opens with time delay	maakcontact, vertraagd open		apm. meter	amperemeter		Fused disconnect, three-pole	scheider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

			Date	10-12-2009	Project name:		Page description:	Symbol library	Customer:	Blastrac bv	=
			Ed.		BMG 535/580P UL SD						+
			Appr.								
Modification	Date	Name	Last print	8-2-2011				Drawing number:	PJ09.01031.04	Page	4

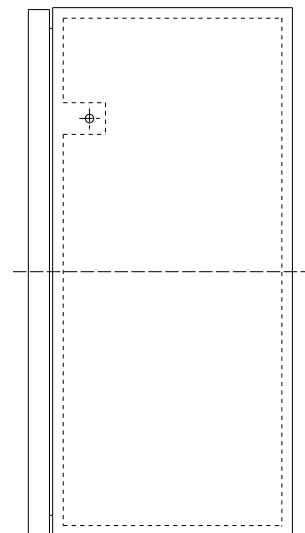
LEFTHAND VIEW



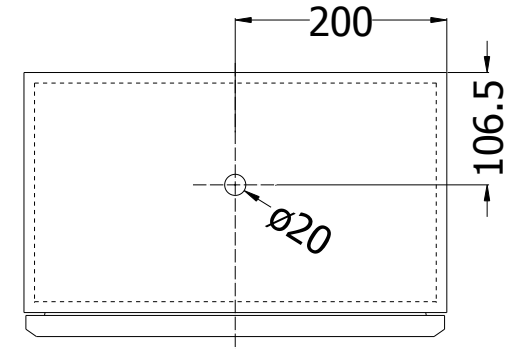
FRONT VIEW



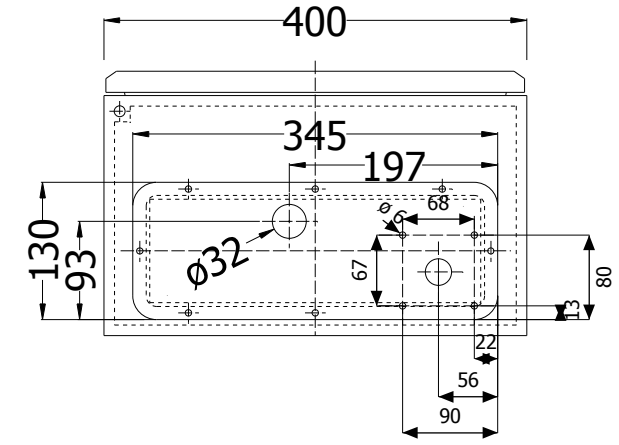
RIGHTHAND VIEW



TOP VIEW



BOTTOM VIEW



Modification	Date	Name	Date	14-10-2010
			Ed.	HVDB
			Appr	
			Last print	8-2-2011

Project name: **BMG 535/580P UL SD**

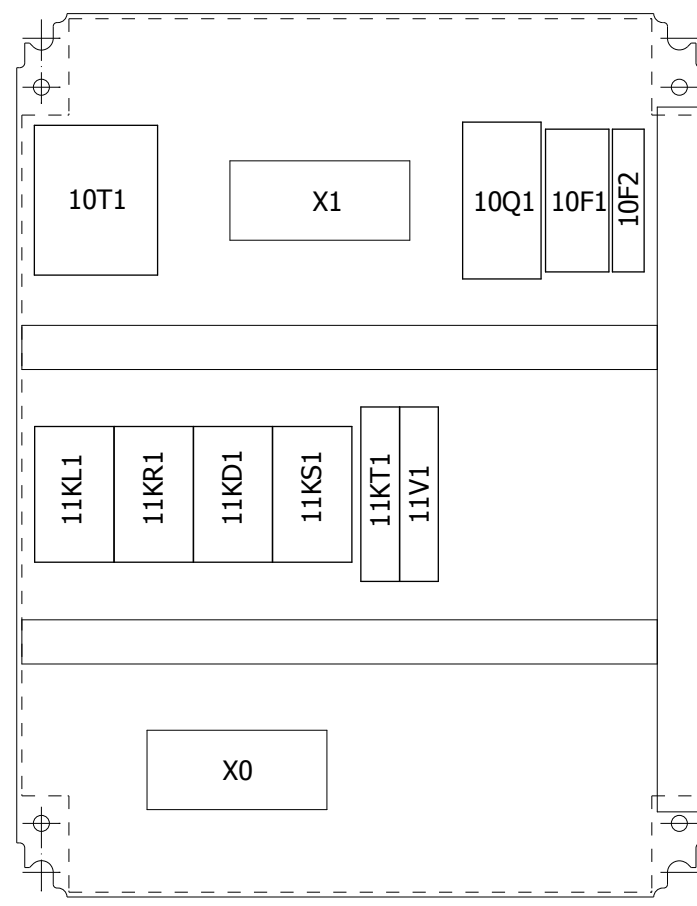
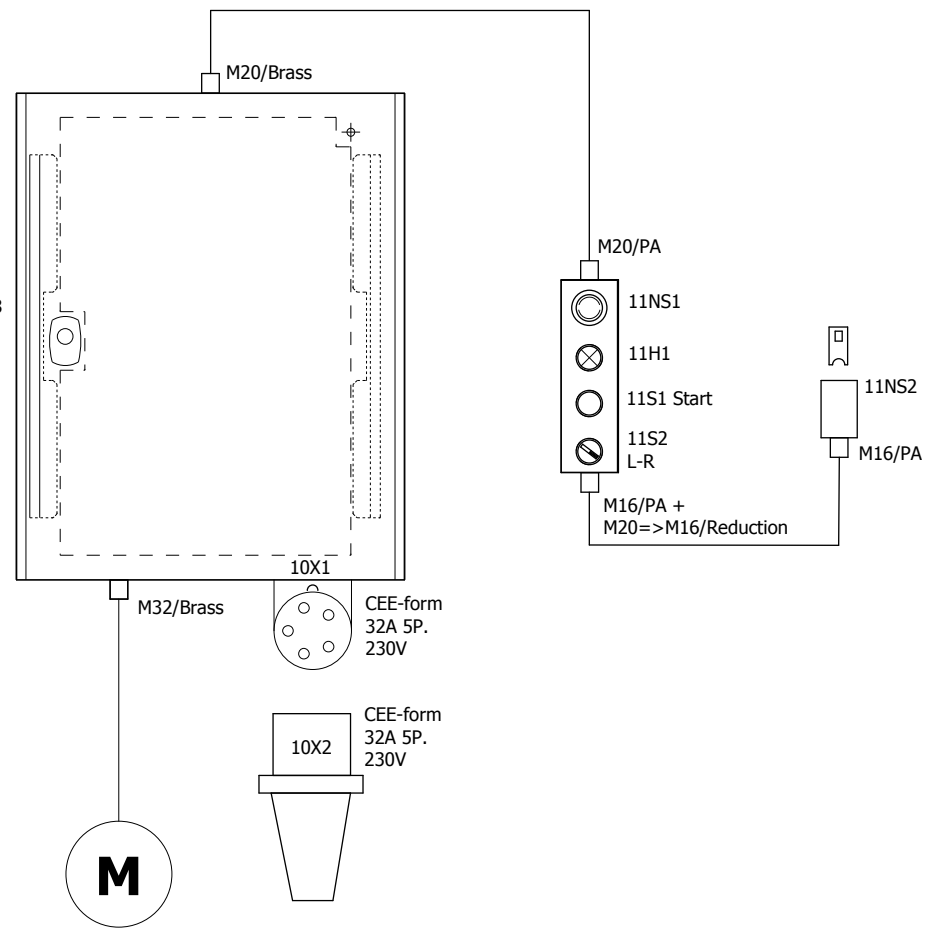


Page description: **Panel Layout**

Customer: **Blastrac bv**
 Drawing number: **PJ09.01031.04**

MOUNTINGPLATE

4x Blind rivet M8
in backside
cabinet



Modification	Date	Name	Last print	8-2-2011
			Date	16-12-2009
			Ed.	
			Appr	

Project name:
BMG 535/580P UL SD

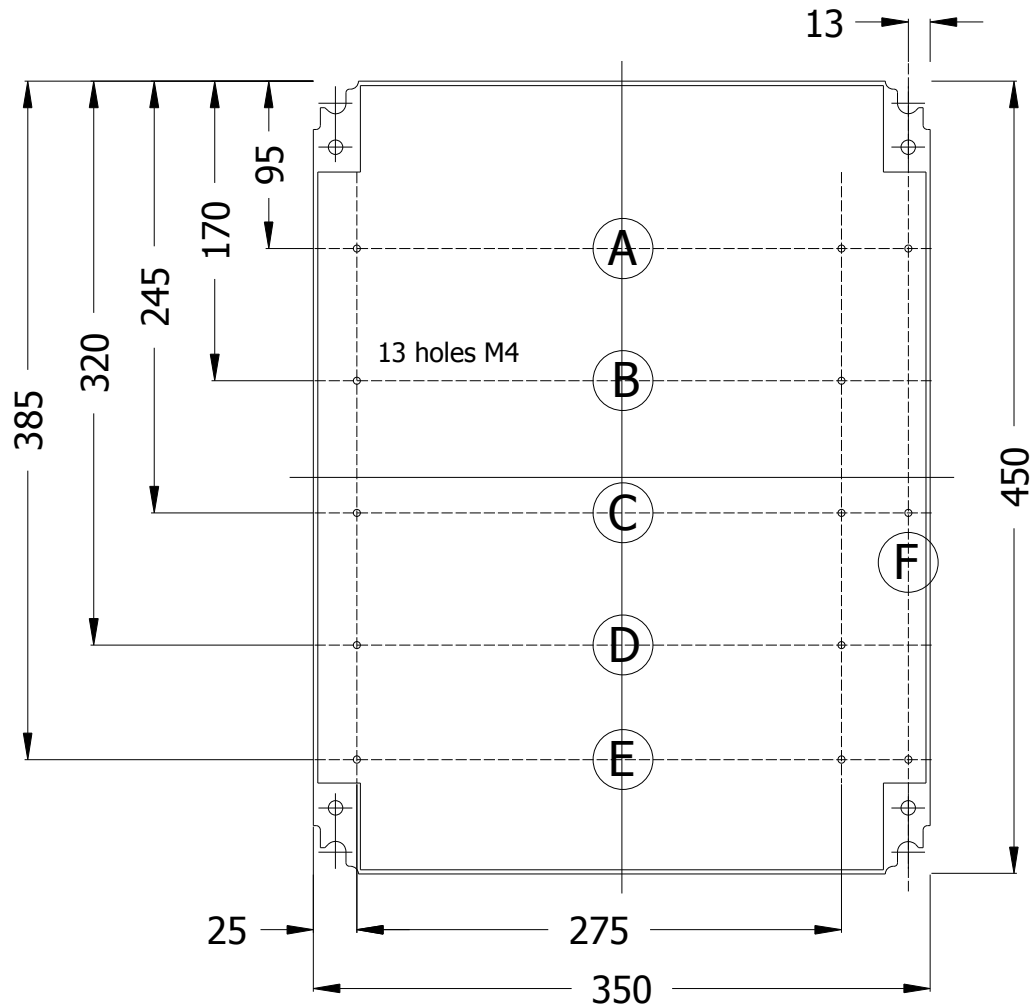


Page description:
Panel Block diagram

Customer:
Blastrac bv

Drawing number:
PJ09.01031.04

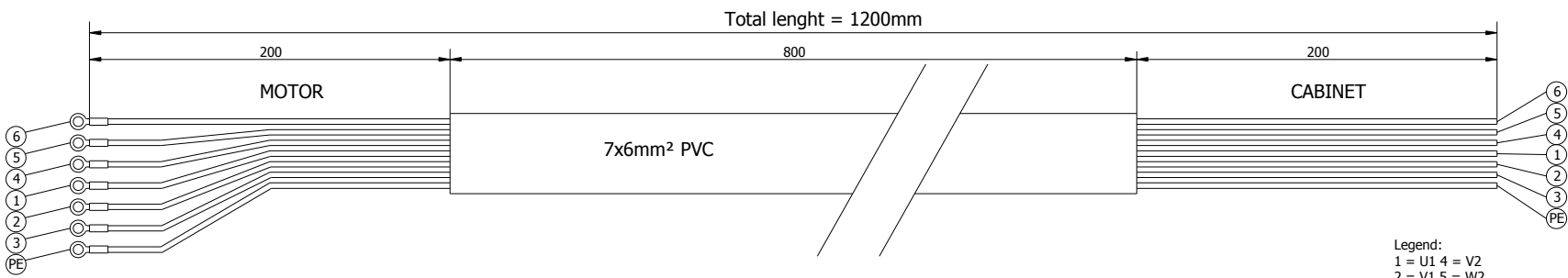
MOUNTINGPLATE



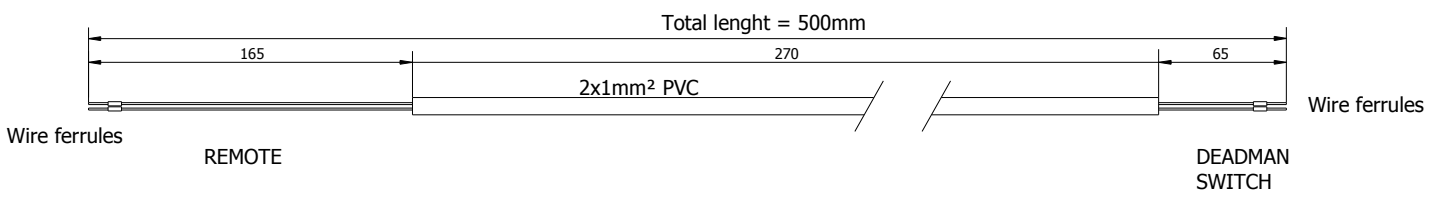
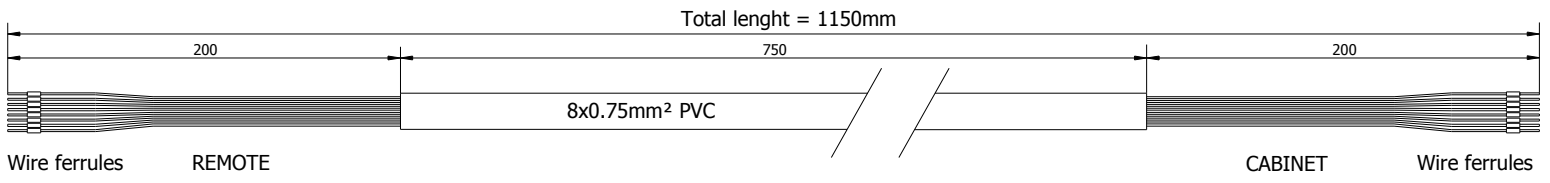
- A = DIN-rail L=250mm
- B = Cable conduit 25x60 L=325mm
- C = DIN-rail L=320mm
- D = Cable conduit 25x60 L=325mm
- E = DIN-rail L=320mm
- F = Cable conduit 25x60 L=400mm

		Date	16-12-2009	Project name:			Page description:		Customer:	Blastrac bv	=
		Ed.		BMG 535/580P UL SD			Mounting plate		Drawing number:	PJ09.01031.04	+
Modification	Date	Name	Last print	8-2-2011					Page	7	

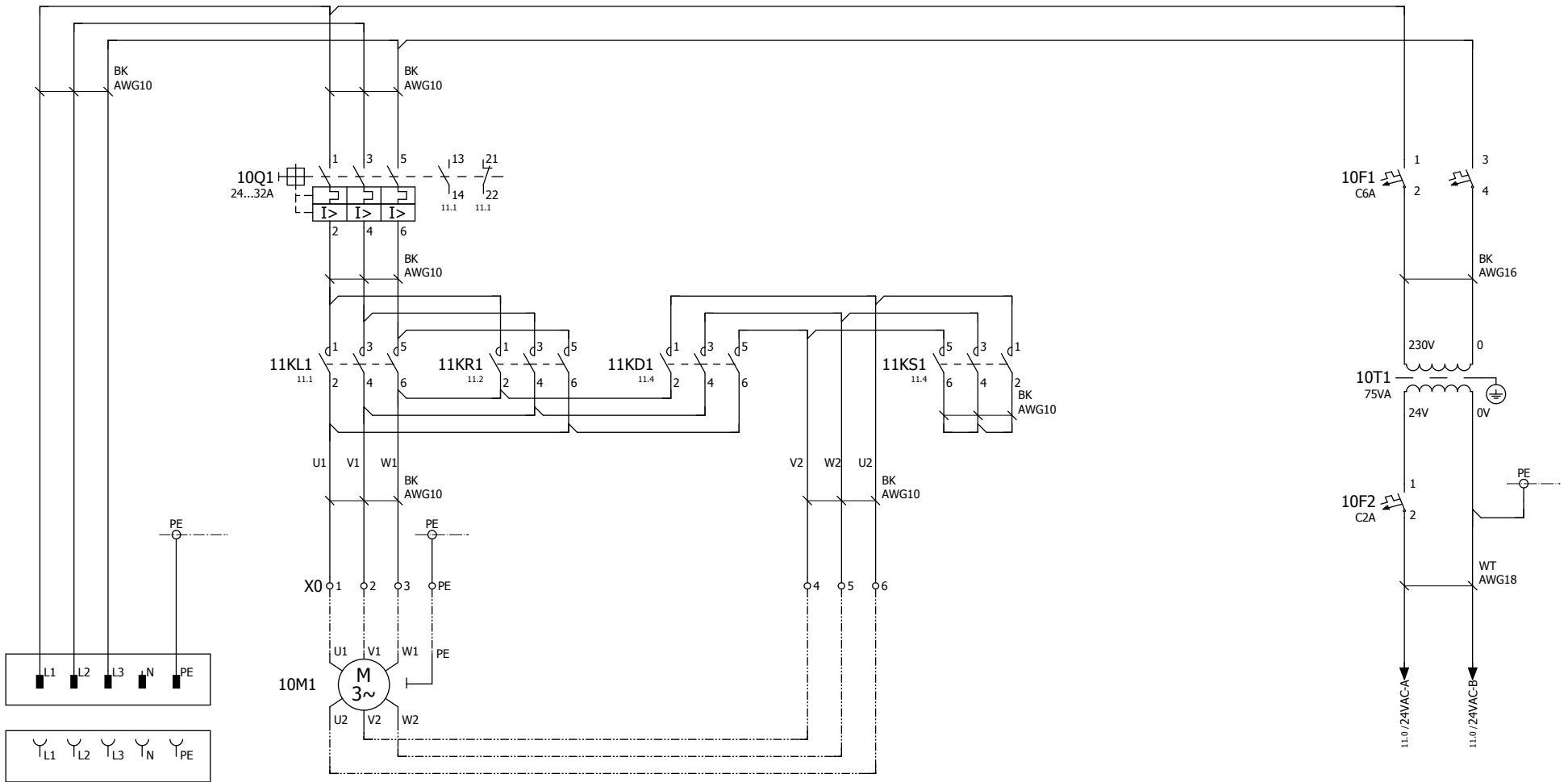
Legend:
 Eye cable tag Blue M5
 1 = U1 4 = V2
 2 = V1 5 = W2
 3 = W1 6 = U2
 PE



Legend:
 1 = U1 4 = V2
 2 = V1 5 = W2
 3 = W1 6 = U2



			Date	8-3-2010	Project name:		Page description:	Cable set	Customer:	Blastrac bv	=
			Ed.		BMG 535/580P UL SD		Drawing number:		PJ09.01031.04	Page	8
Modification	Date	Name	Last print	8-2-2011							

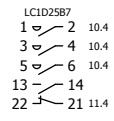
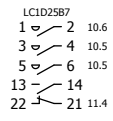
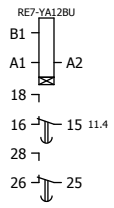
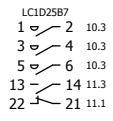
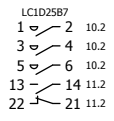
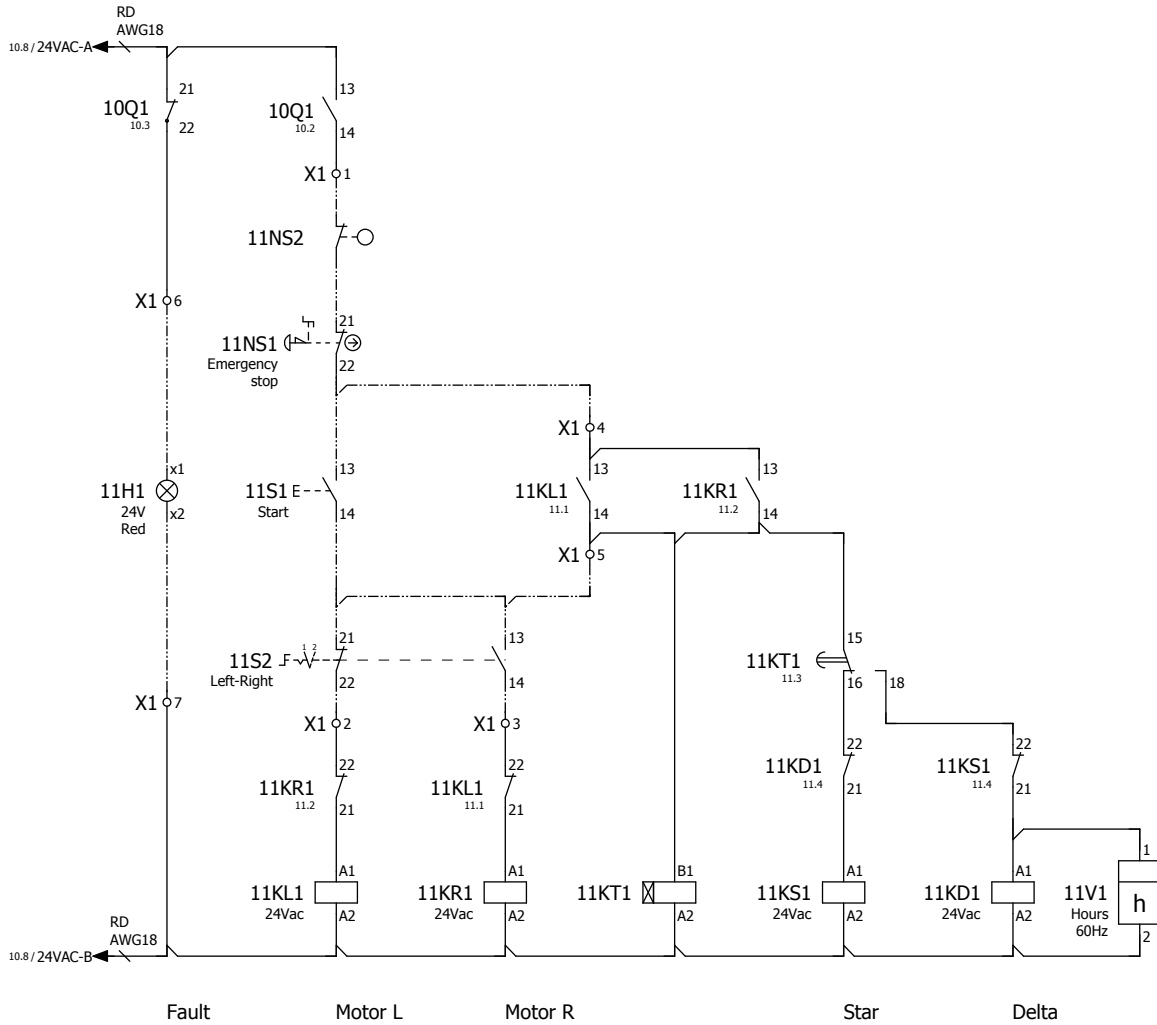


Supply CEE-form
3x230Vac 60Hz.

Motor 7.5kW
230/400Vac
In=28A

Control voltage
24Vac 60Hz.

Modification		Date	Name	Date	16-3-2010	Project name: BMG 535/580P UL SD		Page description: Main-voltage	Customer: Blastrac bv	Drawing number: PJ09.01031.04	Page 10
Ed.		HVDB									
Appr											
Last print		8-2-2011									



<table border="1"> <tr> <td>Date</td> <td>16-3-2010</td> </tr> <tr> <td>Ed.</td> <td>HVDB</td> </tr> <tr> <td>Appr</td> <td></td> </tr> <tr> <td>Last print</td> <td>8-2-2011</td> </tr> </table>				Date	16-3-2010	Ed.	HVDB	Appr		Last print	8-2-2011	Project name: BMG 535/580P UL SD		Page description: Control-voltage		Customer: Blastrac bv		= + Page 11	
Date	16-3-2010																		
Ed.	HVDB																		
Appr																			
Last print	8-2-2011																		
Modification	Date	Name	11		Drawing number: PJ09.01031.04														

Terminal diagram

function text	Strip X0 Terminalstrip X0						Cable name	Cable name	Page / column
	Cable name	Cable type	Target designation	Connection point	terminal	jumper			
Motor 7.5kW 230/400Vac In=28A			10M1	U1	1	.	11KL1	2	10.2
=			10M1	V2	4	.	11KD1;11KS1	5;1	10.4
=			10M1	V1	2	.	11KL1	4	10.2
=			10M1	PE	PE	.	PE		10.2
=			10M1	W2	5	.	11KD1;11KS1	3;3	10.5
=			10M1	W1	3	.	11KL1	6	10.2
=			10M1	U2	6	.	11KD1;11KS1	1;5	10.5

Modification	Date	Name	Date	Project name:		Page description: Terminal diagram	Customer: Blastrac bv	Drawing number: PJ09.01031.04	=	+	Page 20
			10-12-2009	BMG 535/580P UL SD							

Terminal diagram

function text	Cable name	Cable name	Strip X1 Terminalstrip X1					Cable name	Page / column
			Target designation	Connection point	terminal	jumper	Target designation		
Motor L			11NS2		1	.	10Q1	14	11.1
=			11KR1	22	2	.	11S2	22	11.1
Motor R			11KL1	22	3	.	11S2	14	11.2
=			11KL1	13	4	.	11S1	13	11.2
=			11KL1;11KT1	14;B1	5	.	11S2	13	11.2
Fault			11H1	x1	6	.	10Q1	22	11.1
=			10T1;11KL1	0V;A2	7	.	11H1	x2	11.1

Parts list

device tag	Quantity	designation	Type number	part number
6CAB	1	Steel enclosure 500x400x250 with mounting plate 450x350	83324 STEEL	83324
6CAB	4	Blind rivet M8x16	BlindKlinkmoer M8	POPBC M8x16 st verzinkt
6CRB	1	Enclosure RAL7035/7016 for 4 buttons	XAL D04	XAL D04
6PG	1	Cable Gland M32*1.5 Nickel-plated	WARTEL L-M32*1.5	50.632 M-L
6PG	1	Locknut M32*1.5 Nickel-plated	WARTELMOER M32	50.232 M
6PG	1	Cable Gland M20*1.5 Nickel-plated	WARTEL L-M20*1.5	50.620 M-L
6PG	1	Locknut M20*1.5 Nickel-plated	WARTELMOER M20	50.220 M
6PG	1	Cable Gland M20*1.5	WARTEL PA M20*1.5	50.620 PA7035
6PG	2	Locknut M20*1.5	WARTELMOER M20	50.220 PA7035
6PG	2	Cable Gland M16*1.5	WARTEL PA M16*1.5	50.616 PA7035
6PG	1	Locknut M16*1.5	WARTELMOER M16	50.216 PA7035
6PG	1	Reduction M20 -> M16*1.5	Reduction PA M20->M16*1.5	M20M16PA
10F1	1	Miniature circuit breaker 2P C6A UL 489	C60N-1489-A2C060	1489-A2C060
10F2	1	Miniature circuit breaker 1P C2A	C60N-1492-SP1C020	1492-SP1C020
10Q1	1	Motor circuit breaker	GV2 ME32	GV2ME32
10Q1	1	auxiliary contact NO - front mount.	GV2-AE1	GVAE1 NO
10T1	1	Transformer 230/400V±15V -> 24V	STEP 8/1 230/400->24 75VA	84410
10X1	1	32A CEE-form wall outlet socket 9h IP44	ABL G52S22	G52S22
10X2	1	32A CEE-form Socket 9h IP44	ABL K52S20	K52S20
11H1	1	Lens Red LED	ZB5 AV043	ZB5 AV043
11H1	1	LED 24V RED for XAL	ZAL VB4 ROOD	ZAL VB4
11KD1	1	Contact	LC1D25B7	LC1 D25B7
11KL1	1	Contact	LC1D25B7	LC1 D25B7
11KR1	1	Contact	LC1D25B7	LC1 D25B7
11KS1	1	Contact	LC1D25B7	LC1 D25B7
11KT1	1	Star-Delta time-relay	RE7-YA12BU	RE7-YA12BU
11NS1	1	Emergency stop	ZB5 AS844	ZB5 AS844
11NS1	1	element NC XAL	ZEN L1121	ZEN L1121
11NS2	1	Safety switch + Pin	XCS-PA792 + XCS-Z11	XCS-PA792 + XCS-Z11
11S1	1	Pushbutton GREEN "START"	ZB5 AA333	08.01.0237
11S1	1	element NO XAL	ZEN L1111	ZEN L1111
11S2	1	Switch handle	ZB5 AD2	ZB5 AD2
11S2	1	element NO XAL	ZEN L1111	ZEN L1111
11S2	1	element NC XAL	ZEN L1121	ZEN L1121
11V1	1	Time counter 48x48 / 24VAC	BAUS 631 A2 24VAC XD	661116
X0	6	2 Wire terminal 2.5mm ²	WEID ZDU 2.5	1608510000
X0	1	2 Wire PE terminal 2.5mm ²	WEID ZPE 2.5/	1608640000
X0	1	End plate ZDU 2.5	WEID ZAP/TW 1	1608740000
X0	2	End bracket	WEID ZEW 35	9540000000
X1	7	2 Wire terminal 2.5mm ²	WEID ZDU 2.5	1608510000
X1	1	End plate ZDU 2.5	WEID ZAP/TW 1	1608740000