



**Blastrac bv**  
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Project description 1-10DPS 75 3x230V

Drawing number PJ08.1032.06

Blastrac number E06206

Power supply 3x230V 60Hz

Input lead -

Control Voltage 24VAC

Year of Manufacturing 2008

Remarks AS-BUILT

Created on by EPLAN Software & Service (c) 2006

Edit date 13-1-2011 by Number of pages 15

# Table of contents

Page	Page description	supplementary page field	Date	Edited by
1	Titelblad / voorblad		11-10-2010	HVDB
2	Table of Contents		11-10-2010	HVDB
2.a	Revision sheet		11-10-2010	HVDB
3	Legend		29-1-2010	FJK
4	Symbol library		29-1-2010	FJK
5	Panel block diagram		29-1-2010	FJK
6	Panel layout		29-1-2010	FJK
7	Cable set		11-10-2010	HVDB
10	Main Current		29-1-2010	FJK
11	Main Current		11-10-2010	HVDB
12	Control Current		16-2-2010	FJK
20	Terminal diagram		11-10-2010	HVDB
21	Terminal diagram		11-10-2010	HVDB
22	Terminal diagram		11-10-2010	HVDB
30	Part list		11-10-2010	HVDB

Revision	Date	Discription	Remark	Editor
01	03-12-2009	Total revision schedulebook	Production ART4 (JdG)	FJK
02	29-01-2010	Modifications cableset	Blastrac request	FJK
03	09-04-2010	Type frequency inverter	Engineering ART4	HvdB
04	19-04-2010	Cable type wheelmoter	Engineering ART4	HvdB
05	11-10-2010	Cableset updated	Engineering ART4	HvdB
06	10-11-2010	Wire numbers on page 11 and cableset changed	Engineering ART4	HvdB

			Date	10-11-2010	Project name:		Page description:	Revision sheet	Customer:	Blastrac bv	=
			Ed.		1-10DPS 75 3x230V			Revision sheet	Drawing number: PJ08.1032.06	Blastrac bv PJ08.1032.06	+
Modification	Date	Name	Appr								

## WIRE COLOR

Main Voltage 230/400V All wiring AWG

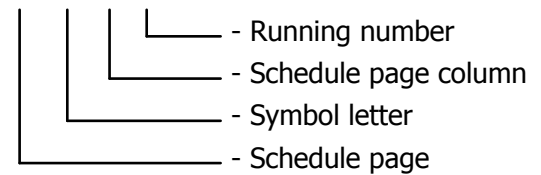
<u>Phase</u>	<u>Colors</u>
L1	- Black
L2	- Black
L3	- Black
Earth / PE	- Yellow/Green

### Control Voltage

Phase (24VAC)	- White
Neutral (24VAC)	- White
Potential	- White

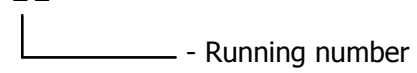
## SYMBOL CODE

11 F 1.1



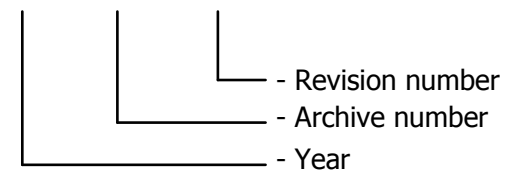
## CORE CODE

11 11



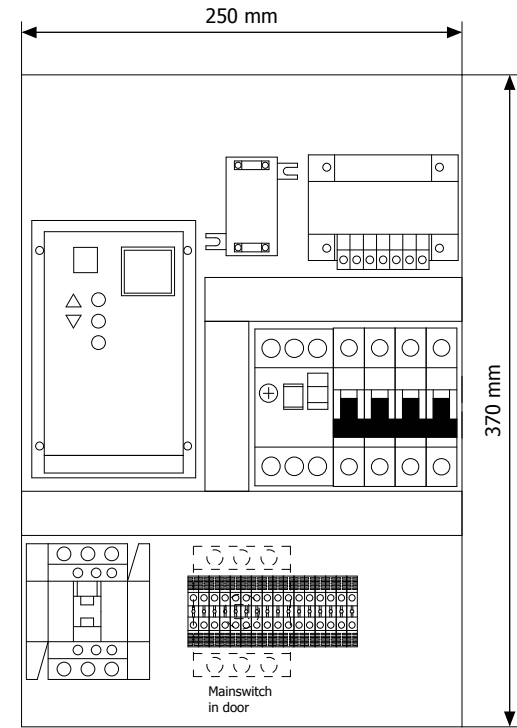
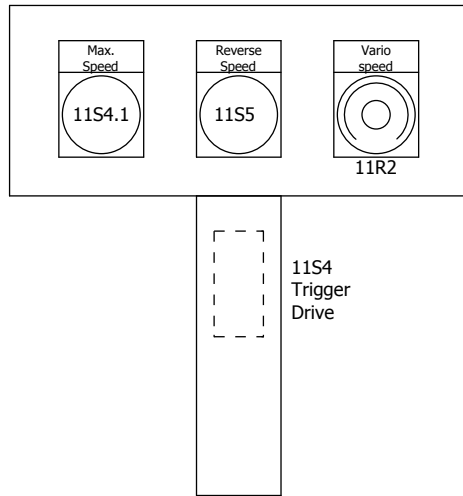
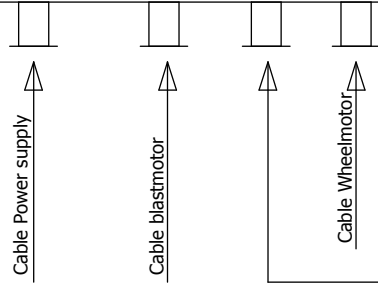
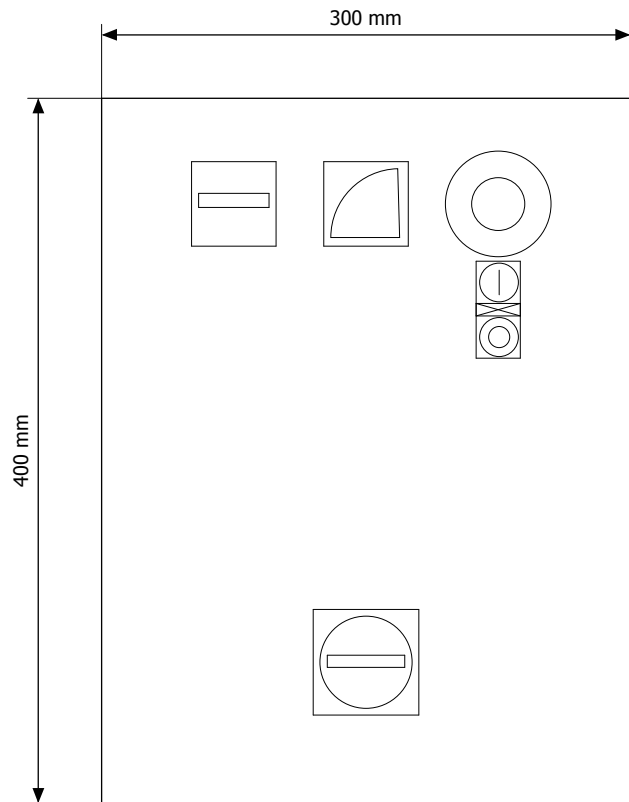
## DRAWING NUMBER

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		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 met zekering
	Pressure switch	drukschakelaar		Current transformer	stroomtransformator		Rectifier	gelijkrichter
	Limit switch	eindschakelaar						
	Proximity switch	naderingsschakelaar						

			Date	29-1-2010	Project name:	1-10DPS 75 3x230V		Page description:	Symbol library	Customer:	Blastrac bv	=
			Ed.	FJK						Drawing number:	PJ08.1032.06	+
			Appr								Page	4
Modification	Date	Name										



Modification	Date	Name	Date	29-1-2010	Project name:
			Ed.	FJK	
			Appr		

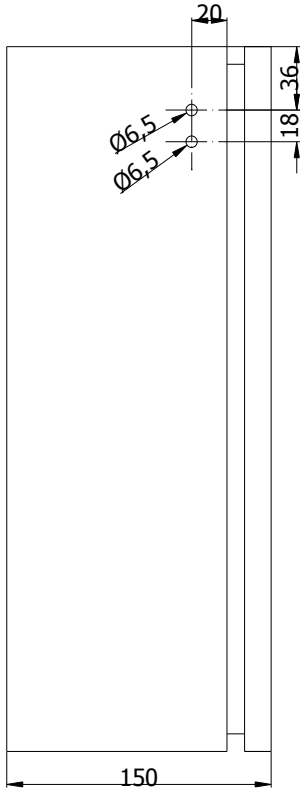
1-10DPS 75 3x230V



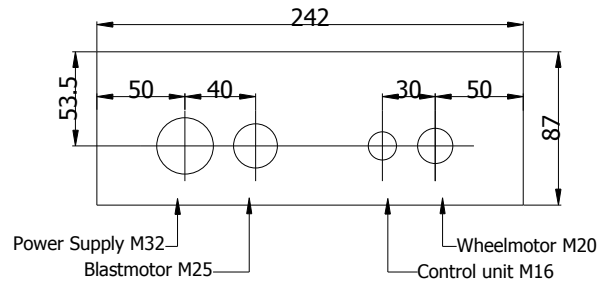
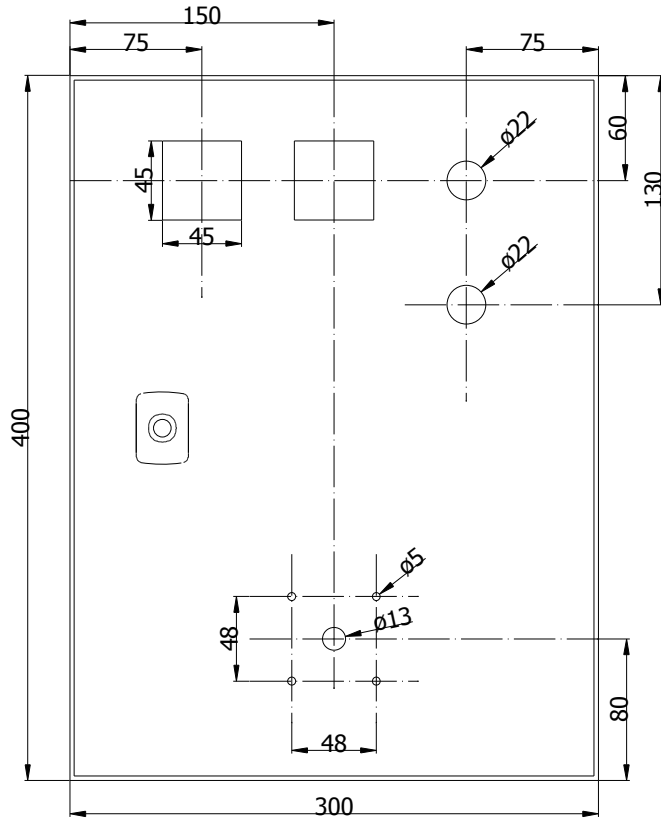
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Customer: Blastrac bv  
 Drawing number: PJ08.1032.06

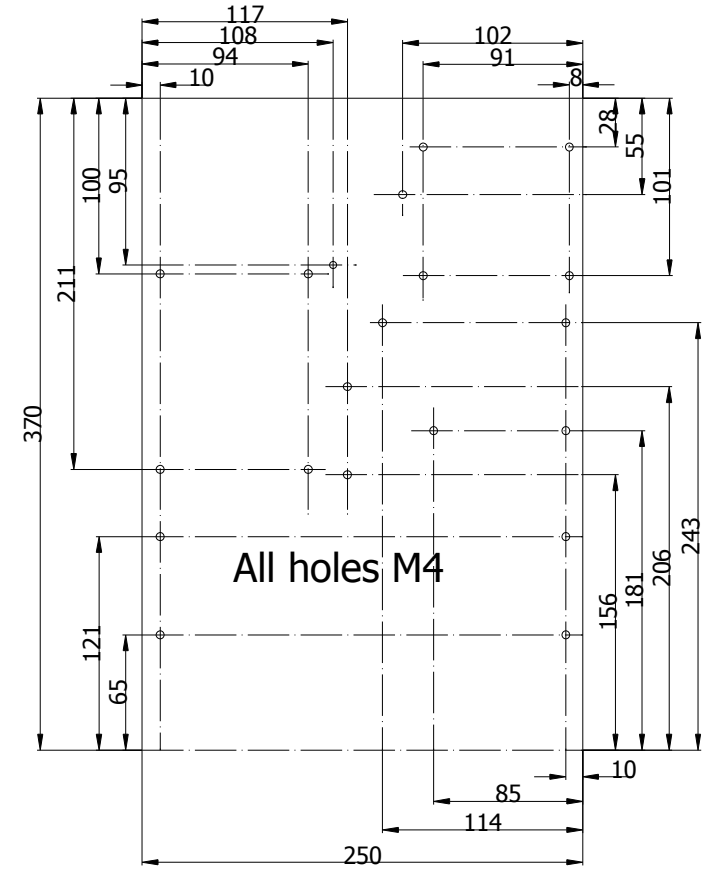
LEFTHAND  
VIEW



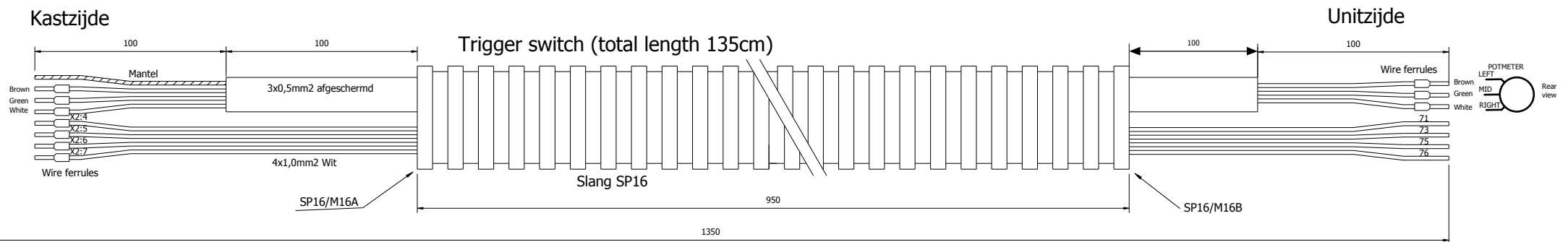
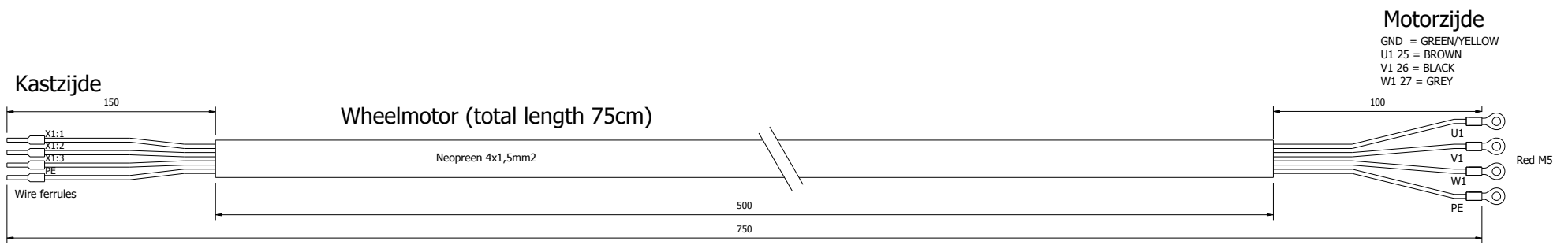
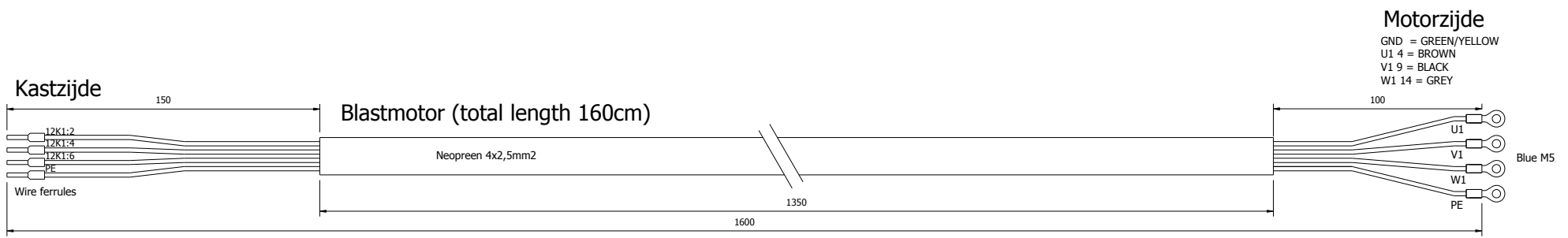
FRONT VIEW



MOUNTING PLATE

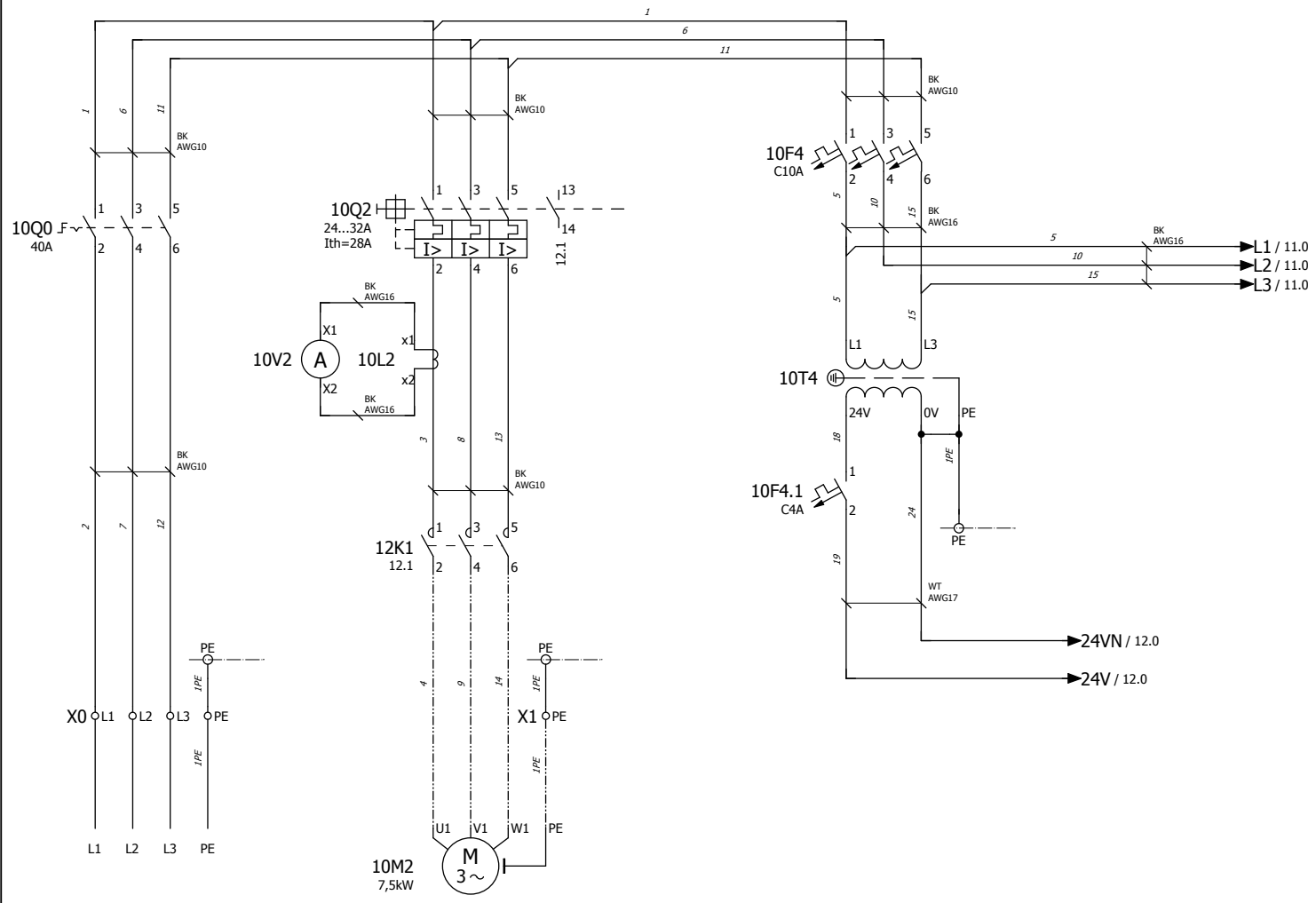


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			Ed.	FJK				Drawing number:		PJ08.1032.06	+	
Modification	Date	Name	Appr								Page	6



			Date	10-11-2010	Project name:	1-10DPS 75 3x230V		Page description:	Cable set	Customer:	Blastrac bv	=		
			Ed.								Drawing number:		PJ08.1032.06	+
Modification	Date	Name	Appr										Page	7



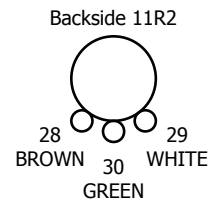
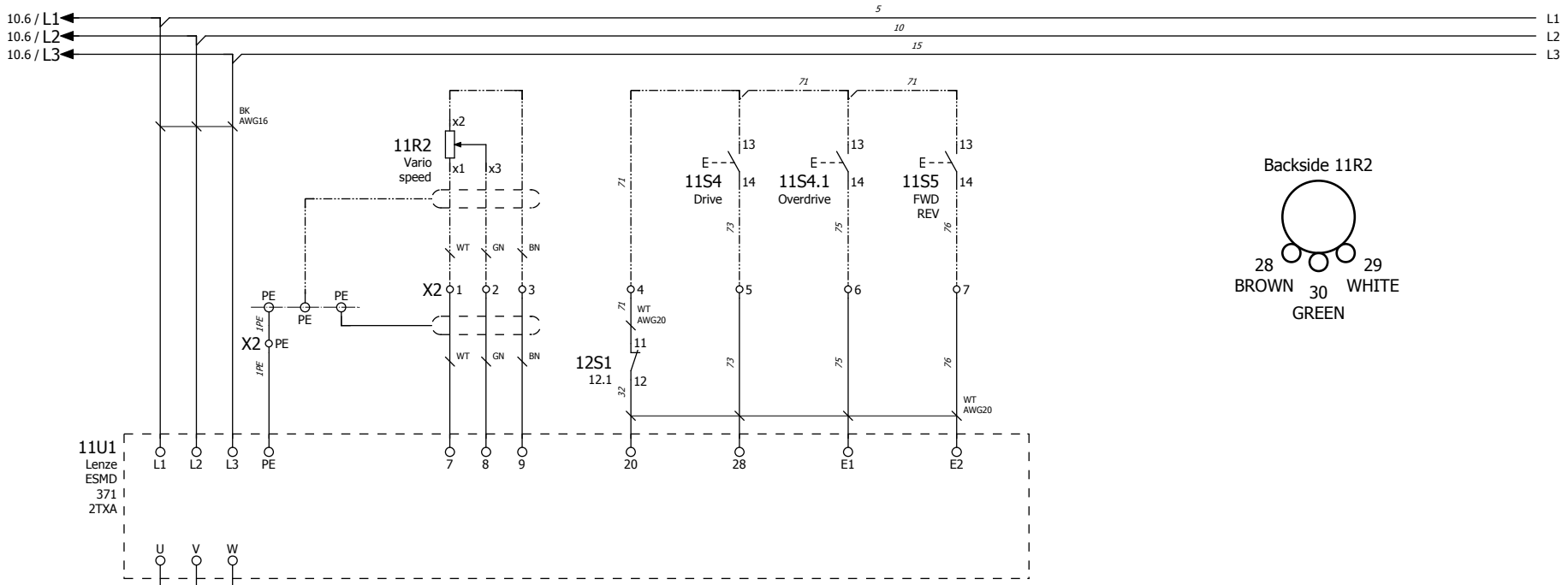


Power supply  
230V 60Hz

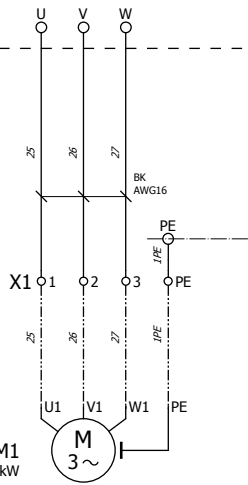
Blast motor  
7,5kW/28A

Control Voltage  
24Vac 60Hz

			Date	13-1-2011	Project name:	1-10DPS 75 3x230V		Page description:	Main Current	Customer:	Blastrac bv	=
			Ed.							Drawing number:	PJ08.1032.06	+
Modification	Date	Name	Appr								Page	10



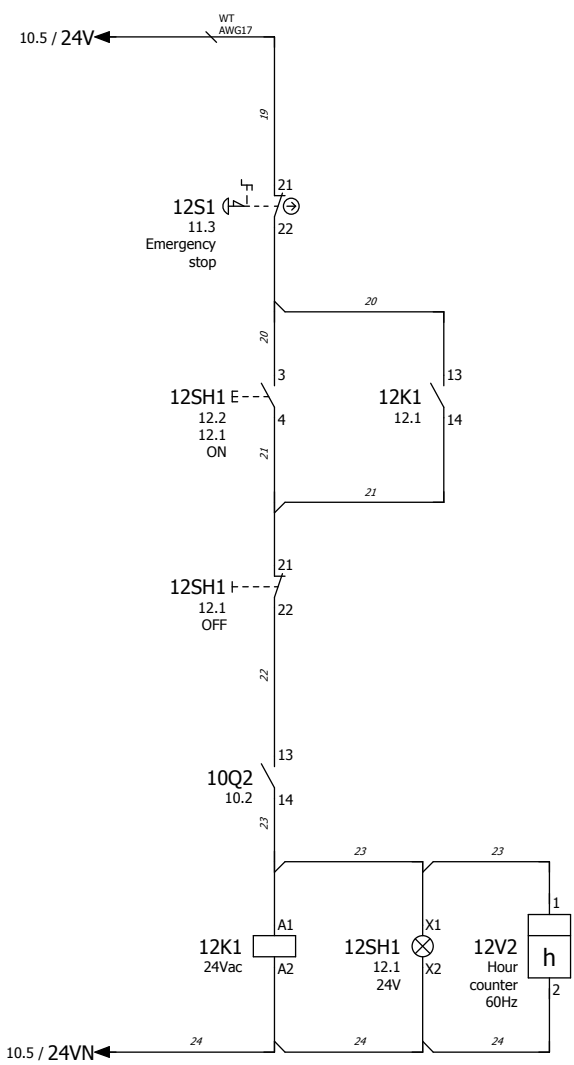
SETTINGS LENZE ESMD  
 C02 2  
 C12 2.5 sec.  
 C13 2.5 sec.  
 C37 60Hz



Connect as DELTA 230V

Wheel motor

			Date	10-11-2010	Project name:	1-10DPS 75 3x230V		Page description:	Main Current	Customer:	Blastrac bv	=	
			Ed.							Drawing number:	PJ08.1032.06	+	
Modification	Date	Name	Appr.									Page	11



- 1 2 10.2
- 3 4 10.2
- 5 6 10.2
- 13 14 12.2
- 21 22

Control Voltage ON      Hours Run

# Terminal diagram

function text	Cable name						Strip X0 Terminals Power supply					Cable name				Page / column			
	cable type						Target designation	Connection point	terminal	jumper	Target designation	Connection point	cable type						
Power supply 230V 60Hz								L1	L1	.	10Q0	2							10.0
=								L2	L2	.	10Q0	4							10.0
=								L3	L3	.	10Q0	6							10.0
=								PE	PE	.	PE								10.1

# Terminal diagram

function text	Cable name	Cable name	Strip X1 Terminals Wheel/Blastmotor				Cable name	Cable type	Page / column
			Target designation	Connection point	terminal	jumper			
Blast motor 7,5kW/28A			10M2	PE	PE	.	PE		10.2
Wheel motor			11M1	U1	1	.	11U1	U	11.1
=			11M1	V1	2	.	11U1	V	11.1
=			11M1	W1	3	.	11U1	W	11.1
=			11M1	PE	PE	.	PE		11.1

# Terminal diagram

function text		Cable name	Cable name	Strip X2 Terminals Controller					Cable name	Page / column
				cable type	Target designation	Connection point	terminal	jumper		
Trigger switch				11R2	x1	1	.	11U1	7	11.2
=				11R2	x3	2	.	11U1	8	11.2
=				11R2	x2	3	.	11U1	9	11.3
=				11S4	13	4	.	12S1	11	11.3
=				11S4	14	5	.	11U1	28	11.4
=				11S4.1	14	6	.	11U1	E1	11.4
=				11S5	14	7	.	11U1	E2	11.5
Wheel motor				PE		PE	.	11U1	PE	11.1

# Parts list

device tag	Quantity	designation	Type number	Brand	part number
CAB	1	Enclosure 400x300x150 with mounting plate 370x250	MAS 0403015	Eldon	MAS 0403015
PG1	1	Cable Gland M32*1.5	WARTEL PA M32*1.5		50.632 PA7035
PG1	1	Locknut M32*1.5 Nickel-plated	WARTELMOER M32		50.232 M
PG2	1	Cable Gland M25*1.5 Nickel-plated	WARTEL L-M25*1.5	Jacob	50.625 M-L
PG2	1	Locknut M25*1.5 Nickel-plated	WARTELMOER M25	Jacob	50.225 M
PG3	1	Cable Gland M20*1.5 Nickel-plated	WARTEL L-M20*1.5	Jacob	50.620 M-L
PG3	1	Locknut M20*1.5 Nickel-plated	WARTELMOER M20	Jacob	50.220 M
10Q0	1	Switch 3p. 40A	V2	Schneider Electric	V2
10Q0	1	Door Interlock Plate	KZ 32	Schneider Electric	KZ 32
10Q0	1	Handle and frontplate	KCF 1PZ	Schneider Electric	KCF 1PZ
10V2	1	Amp-meter	3EIV48 358205 10	Faget	3EIV48 358205 10
10Q2	1	Motor circuit breaker	GV2 ME32	Schneider Electric	GV2 ME32
10Q2	1	auxiliary contact NO - front mount.	GV2-AE1	Schneider Electric	GVAE1 NO
10L2	1	Current transformer	IBA 40A/5A KL.3	Celsa	06.02.0098
10F4	1	Miniature circuit breaker 3P C10A	C60N-1492-SP3C100	Allen Bradley	1492-SP3C100
10T4	1	Transformer 230/400±15V -> 24V	STEP 9/2 230/400->24 160VA	Jahns Müller GmbH	96090
10F4.1	1	Miniature circuit breaker UL type	MCB.UL.C4A.1p	Allen Bradley	1492-SP1C040
11U1	1	Frequency inverter	ESMD371X2TXA	Lenze	ESMD371X2TXA
11R2	1	Trim-pot 10K	Potmeterset 10K ZB4	Generic	Potmeterset 10K ZB4
11R2	1	Pot.meter	ZB5 AD912	Schneider Electric	ZB5 AD912
11S4	1	Standswitch	XCK-P2102P16 Bed.eindschak.	Schneider Electric	08.07.0109
11S4.1	1	Pushbutton 16mm White	XB6-CA11B	Schneider Electric	08.01.0243
11S5	1	Pushbutton 16mm White	XB6-CA11B	Schneider Electric	08.01.0243
12S1	1	element NC with mountingbase	ZB4 BZ102	Schneider Electric	ZB4 BZ102
12S1	1	Pushbutton Emergency stop	ZB4 B554	Schneider Electric	ZB4 B554
12SH1	1	Pushbutton COMBI+LED	ZB5 AW823743	Schneider Electric	ZB5 AW823743
12SH1	1	element NO	ZBE 101	Schneider Electric	ZBE 101
12SH1	1	element NC	ZBE 102	Schneider Electric	ZBE 102
12SH1	1	24V Pilot light White	XB5 AVB1	Schneider Electric	XB5 AVB1
12SH1	1	Silicon hood for combibutton	ZBW 008	Schneider Electric	ZBW 008
12K1	1	Contactur	LC1D18B7	Schneider Electric	LC1 D18B7
12V2	1	Time counter 48x48 / 24VAC	BW40.18 24V 50HZ	Hugo Müller GmbH & Co KG	BW40.18 24V/50Hz
X0	3	Terminal	VU4-6 conn.railk.	Wieland	WK6/U/0V
X0	1	Earth terminal	VUPE4-6 conn.railk.	Wieland	WK6/SL/U/0V
X0	2	End bracket	WEID ZEW 35	Weidmüller	9540000000
X1	3	Terminal	VU4-4 conn.railk.	Wieland	WK4/U/0V
X1	2	Earth terminal	VUPE4-4 conn.railk.	Wieland	WK4/SL/U/0V
X2	7	Terminal	VU4-4 conn.railk.	Wieland	WK4/U/0V
X2	1	Earth terminal	VUPE4-4 conn.railk.	Wieland	WK4/SL/U/0V

Modification			Date	Name	Date	11-10-2010	Project name:	1-10DPS 75 3x230V		Page description:	Part list	Customer:	Blastrac bv	=
			Ed.									Customer:	Blastrac bv	+
			Appr									Drawing number:	PJ08.1032.06	Page
														30