

Investor:

PEGAS-GONDA s.r.o.

Project title:

Saw.machine 600 CAMEL X

PS/SO:

Name of supplement:

TECHNICAL REPORT
WIRING DIAGRAM
PLACEMENT
DEVICE SPECIFICATION
LIST OF TERMINALS
LIST OF CABLES

Design stage:

Actual implementation

Constructor:

Ing.Kopáček

Date:

15.3.2010

Order number:

IZ 4/09 EL

Execution:

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Technical report

1. EQUIPMENT - AUTOMATIC SAW 600 CAMEL X

1.1. IMPRINT

Name of building: Automatic saw 600 CAMEL X
 Investor:
 Supplier of Technology: PEGAS-GONDA s.r.o., Čs.Armády 322, 684 01 Slavkov u Brna

1.2. CHARACTERISTIC DATA

Protection against dangerous contact:

- non-living parts of automatic disconnection from the source and additional bonding by ČSN EN 60204-1 ed.2 par.6.3 a par.8
- live coverage of parts and low voltage according ČSN EN 60204 ed.2 par.6.2 a par.6.4

1.3. DESIGN DATA

- technological requirements of the project
- current project, the electrical
- ČSN and relevant regulations :
 - ČSN 330165 (1.3.2008) Značení vodičů barvami nebo číslicemi
 - ČSN EN 60204-1 ed.2 (1.6.2007) Elektrická zařízení pracovních strojů
 - ČSN 33 2000-4-41 ed.2 (1.8.2007) Ochrana před úrazem el.proudem
 - ČSN 33 2000-5-54 ed.2 (1.9.2007) Uzemnění a ochranné vodiče
 - ČSN 33 2000-6 (1.9.2007) Revize
 - ČSN EN 60439-1 ed.2 (1.11.2000) Typ.zkoušené a část. typ.zkoušené rozváděče
 - ČSN EN 50110-1 ed.2 (1.9.2006) Obsluha a práce na elektrických zařízeních
 - ČSN EN 13898 (5/2004)

and belonging to them the standards and regulations.

1.4. SPECIFICATIONS

1.4.1 Distribution grid TN-S

1.4.2 Voltage System

3/N/PE AC 400/230V 50Hz, TN-S
 2 AC 24V 50Hz, PELV

1.4.3 Protection against dangerous contact:

- non-living parts of automatic disconnection from the source and additional bonding by ČSN EN 60204-1 ed.2 par.6.3 a par.8
- live coverage of parts and low voltage according ČSN EN 60204 ed.2 par.6.2 a par.6.4

1.4.4 Influence of environment

To install the service under consideration is expected to set the internal environment, space normal (AB5,AC1,AD1,AE1,AF1,AG2,AH2,AK1,AL1,AM1,AP1,AR1,BA4,BC3,BD1,BE1).

1.4.5 Electricity metering

Measurement of electricity consumption is not subject to this project.

1.4.6 Balance of power - technology for manned facilities

Site rated power

Pi = 5,6 kW

Electric input

Ps = 11,1 kW

Calculated current $I = 17,6 \text{ A}$

1.4.7 Electricity supply

The main intake switchboard RM is the subject of file delivery service. The inlet is made cable H05VV-F (CYSY) 5Cx2,5, recommended protection on the power circuit breaker Schneider Compact NS100N, TM-D 20A.

1.4.8 Compensation Factor

Unless this project.

1.5. DESCRIPTION OF TECHNOLOGY PARTS

1.5.1. LIST OF APPLIANCES

position	descriptions	number	Ps(kW)
M1	Drive belt motor Cantoni PSkg100L-4 4kW,400VAC,9,2A	1	4,0
M2	Emulsion pompe EP Slavkov,3COA4-12HP1 0,12kW,400V,0,33A	1	0,12
M3	Oil pump EP Slavkov,MA-AL80-1BF100-4A 0,9kW,400VAC,1,98A	1	1,8
M4	Cooling M1 motor Sunon DP200A 230VAC,0,27A	1	0,06
M7	Brush motor Siemens 1LA7060-4AB10 0,12kW,400VAC,0,42A	1	0,12
	Distributor RM	1	0,35

1.5.2. TECHNICAL REPORT

Distributor RM

Distributor of machine RM is cubicle box, protection class is IP 32/00, dimension are 550x1020x320mm.

Distributor is fitted with the main switch / emergency stop switch, turn off and turn on the machine can be manually opened and closed the door. Also contains switching and protective devices, frequency inverter for main propulsion and auxiliary equipment for power supply circuits. Distributor is also part of the control system (CS) MAHL-ABF/10E0 with the control panel containing an alphanumeric keyboard and display. The back side of the cabinet is mounted on the frame.

The main supply is made cable H05VV-F 5Cx2,5 fused to the supply side circuit breaker 20A.

Control and signaling

Individual actuators can be controlled manually from the control panel control system, in the case of automatic operation is controlled by the machine control system in the presence of intermittent operation.

Details of the control system, see "Instructions for Use".

Machine part

All drives can be switched off via the emergency stop button located on the control panel. After pressing the button is pressed in the locked position, the button can be released by turning. After releasing the button actuator will remain in their original state ie. off. When you open the covers band, band breaking or decrease pressure in the hydraulic drive is blocked operation. Remove the drive is blocked off for overcurrent protection of motors respectively to jam scavengers.

- Control panel
is part of the switchboard RM, Mahler and control system includes an emergency stop button.
- Drive belt
is supplied from frequency converter located in cabinet RM. Its operation is controlled via RS. The engine is forcibly cooled by a blower powered motor M4.
- Oil pump
Part of hydro in addition to self-propelled M3 and oil pressure sensors and valves located on the hydraulic rack. The valves are controlled via control system.
- Emulsion pump M2
The pump is located on the right side of the machine tub on the cover of the coolant used for cooling and a band saw in the cut. Its operation is controlled via control system..
- Cleaning brush M7
is used to clean-out chips generated during cutting of the cutting sheet. Brush is placed behind a cut under cover drive pulley. Its operation is controlled via control system.

1.5.3 FAULT INDICATION

The machine is equipped with safety sensors SQ1, SQ1A (cover open), sensor fault SQ2 to indicate breaking belt SQ2A and control oil pressure to tension the belt. These sensors, including the button "Emergency Stop" located on the control panel activates a fail stop the machine and failure reports through the control unit MAHLER.

No. of the error	what does it mean	possible causes of the appearance/ note
E/W 01	emergency stop	Activated the emergency stop button or blade cover is open, light -P3 on panel is lighting, see protection modul -A2, when LED Y12/22 is lighting, emergency stop button=OK, when LED Y42/52 is lighting, blade cover =OK. When the emergency stop is activated or blade cover is open, power for converter -A9 and drives is off. When it's all OK, to activate the power you have to press switch RESET on panel.
E/W 02	switching off of the termoprotections group A	Circuit breakerd -QF2 is off (overcurrent of the hydraulic -M3).
E/W 03	switching off of the termoprotections group B	Circuit breakerd -QF8 is off (overcurrent of the cleaning brush -M7).
E/W 04	switching off of the emulsion pump termoprotection	Circuit breakerd -QF6 is off (overcurrent of the emulsion pump -M7) - usually mechanical block.
E/W 05	switching off of the termoprotection of the chip extractor	Circuit breakerd -QF5 is off (overcurrent of the chip extractor -M6) - it could be a mechanical block.
E/W 07	problem with the blade tension	Blade could be broken or could slide down the pulley, or the tensioning pressure is low. Check the tensioning pressure or adjust the tensioning switch -SQ2 or -SQ2A, when it's all OK, relay -KA1 have to be ON.
W 08	blade cover is open	Applies to service mode, light -P3 on panel is blinking. See protection modul -A2, when LED Y42/52 is lighting=OK (SQ1 - left cover, SQ1A -right cover) ,when LED Y72/82 is lighting=service mode (see switch -SA2).
E/W 09	hydraulic pump is off	Switch on the hydraulic pump
E/W 12	error at the blade drive converter	Check converter -A9 and fuses -FU11, sometimes it is enough when you press STOP/RESET on converter. Converter may be blocked from relay -KA1A (see problem with the blade tension -SQ2,-SQ2A). Converter not powered when control system is in "service mode" - light -P3 on panel is blinking.
E/W 31	level sensor of the emulsion SQ23	Low emulsion level or some rubbish near the sensor.
W 36	clamping jaw of the firm vice is open	Close the fix vice.

E=EMERGENCY,W=WARNING

1.5.4 CABLING

Electrical equipment of machines are connected to cables switchboard HO5VV-F (CYSY), drive belt cable CMFM, cables, valves H03VVH2F (CYLY) connected to the output terminals of the cabinet. Cables and signaling cables drives are held separately inside the machine.

1.5.5 GROUNDING AND BONDING

Protective interconnections Cu wire is designed depends on the various dimensions of the extreme section conductor according to ČSN EN 60204-1 ed.2 odst.8. The M1 fed through the drive frequency converter is realized by working interconnections BS EN 60204-1 ed.2 odst.8. At the bottom of the saw stand is designed PE screw terminal for connection to external protective earthing system.

2. OPERATIONAL AND SAFETY REGULATIONS

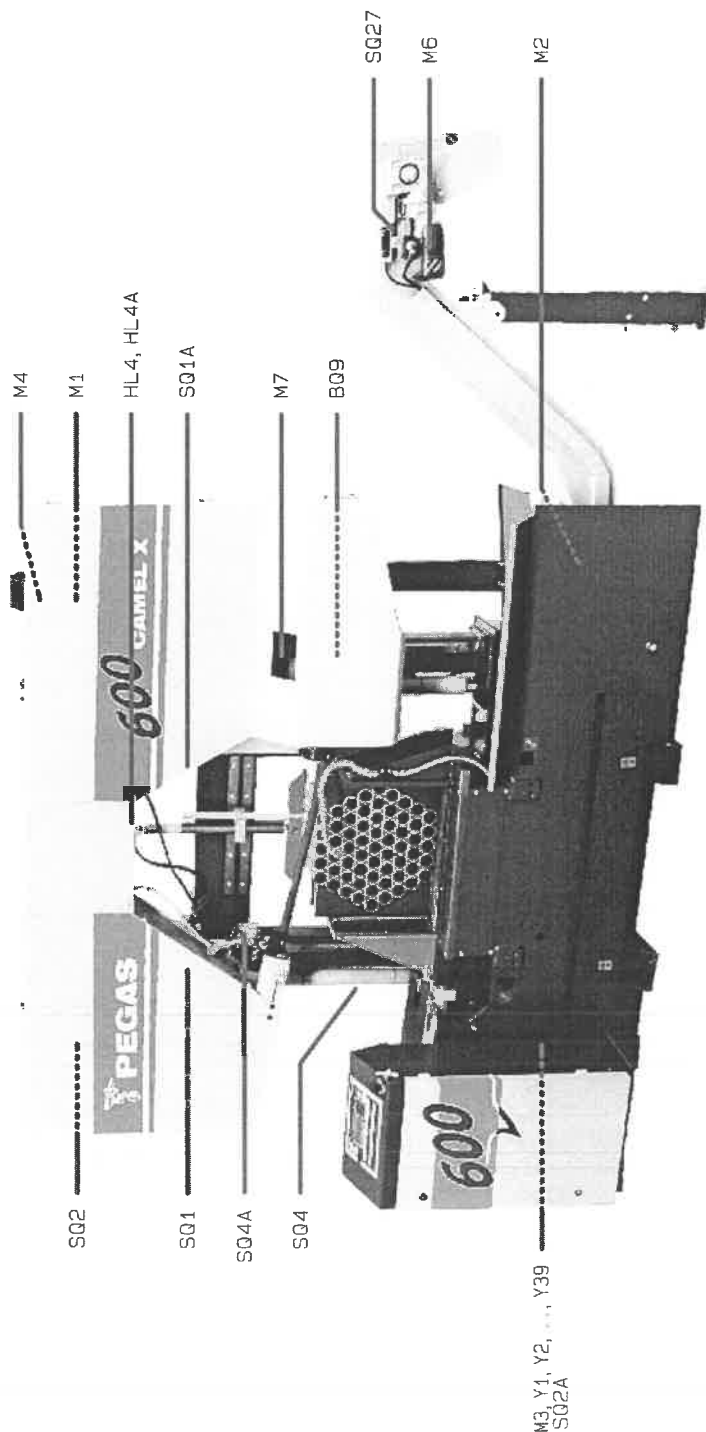
Electrical equipment must be kept in a state that is consistent with current electrical standards and regulations. El simple operation. equipment in which the worker can not come into contact with live parts may be performed by the employee with no electrical skills. Staff member designated by the operator el. equipment must be familiar with the rules to the extent of business carried on by him or trained for this activity under the relevant regulations. Personnel who work on the el. facilities must be at least knowledgeable staff.


It is recommended that after installation and commissioning of equipment into service check all terminal connections associated with the activities of the cabinet. Likewise, do at least 1x a year. Electrical work is to be implemented under the meaning of the applicable ISO standards and related regulations.

After completion of electrical installation work must be carried out initial revision in accordance with ČSN 33 2000-6-61. The operator is obliged to perform regular reviews of the meaning of ČSN 33 1500.

Disposition

DRIVE/SENSOR	CABLE
mains	WL11
M1 drive of band	WL12
M2 emulsion pump	WL14
M3 oil pump	WL15
M4 cooling M1	WL16
M6 staging device	WL18A, B
M7 cleaning brush	WL19
Y1 frame down	WL31
Y2 frame up	WL34
Y3 fix.+Nr.3 vice-close	WL36
Y3A fix.+Nr.3 vice-open	WL37
Y9 frame-unlock	WL47
Y11 band-tension	WL50
Y12 band-leave off	WL51
Y38 float.jaw-fix+No.3 vice close	WL81
Y39 float.jaw-feeding vice close	WL82
HL4A line laser-option	WL101
HL4 lighting of cut	WL102
AP applicator	WL103
SQ1 open cover-left	WS11
SQ1A open cover-right	WS11A
SQ2 band tension	WS12
SQ2A oil pressure	WS12A
SQ4 frame down	WS15
SQ4A frame down	WS16
SQ27 extractor-jamming	WS17
B09 location of frame	WS48



	Investor: PEGAS-GONDA s.r.o.	Constructor: Ing.Kopaček	Last changed:	Ref.:
	Order number: IZ 4/09 EL	Apr.:	Date: 15.3.2010	
Project title: Saw machine 600 CAMEL X		Page title: Cabling		Scale: 1:2
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Lists

pieces /m	Type	Description	Maker	Price
1	0,9kW,400VAC,1,98A	EP Slavkov,MA-AL80-1BF100-4A		
1	0,12kW,400V,0,33A	EP Slavkov,3COA4-12HP1		
1	0,12kW,400VAC,0,42A	motor Siemens 1LA7060-4AB10		
1	0,18kW,400VAC,0,65A	motor Cantoni SKg 63-482		
3	1A,aM	Schrack pojistka válcová C10x38 1A,aM		
8	1N5408	dioda 1N5408,3A,1000V,S001882		
2	2A,aM	Schrack pojistka válcová C10x38 2A,aM		
3.80	4Bx2,5	Draka Kabely YSLY-JZ 4Bx2,5		
1	4kW,400VAC,9,2A	motor Cantoni PSkg100L-4		
3	16A,aM	Schrack pojistka válcová C10x38 16A,aM		
1	230VAC,0,27A	motor Sunon DP200A		
2	4700u/50V	kondenzátor ellyt. 4700u/50V		
1	10100.009	CZECHMONT 10100.009,40VA,230V/2x12V,1.6A		
1	A1000-FIV3020-RE	Omron,odrušovací filtr A1000-FIV3020-RE		
1	BUX 48A	tranzistor BUX 48A		
1	CA3LD	SOS,S058764,konektor Hirschmann CA3LD		
1	CA3LS	SOS,S058765,konektor Hirschmann CA3LS		
8.20	CMFM 4Bx2.5	CMFM 4Bx2.5		
4.80	CMFM 4Dx0,5	CMFM 4Dx0,5		
99.20	CYLY 2Ax0,5	CYLY 2Ax0,5		
1.90	CYLY 2Ax1	CYLY 2Ax1		
1.80	CYLY 2x0,5	CYLY 2x0,5		
7.30	CYSY 3Cx1,5	CYSY 3Cx1,5		
24.10	CYSY 4Bx1,5	CYSY 4Bx1,5		
2.40	CYSY 5Cx0,75	CYSY 5Cx0,75		
9.15	CYSY 5Cx2,5	CYSY 5Cx2,5		
1	EK2.5	Weidmueller EK2.5		
1	F3,15A	pojistka trubičková 6,3x32mm, F3,15A		
1	F8A	pojistka trubičková 6,3x32mm, F8A		
1	F.AI.DB.2150.ZA	SOS, Arcotronics síť.filtr F.AI.DB.2150.ZA, 1,5A,flexi		
1	FF4115-3DN	Pizzato FF4115-3DN		
2	FPC.10	Schrack pojist.svorka 6,3x32 FPC.10		
1	FR501	Pizzato FR501		
2	FR502	Pizzato FR502		

pieces /m	Type	Description	Maker	Price
2	FR693-D1	Pizzato FR693-D1		
4	GV2AF01	Telemec prpoj.blok GV2AF01		
1	GZ1AN11	Telemec pom.kontakty GZ1AN11		
3	GZ1AN11	Telemec pom.kontakty GZ1AN11		
1	GZ1M03	Telemec spouštěč GZ1M03		
1	GZ1M04	Telemec spouštěč GZ1M04		
1	GZ1M05	Telemec spouštěč GZ1M05		
1	GZ1M07	Telemec spouštěč GZ1M07		
1	HDC 04A KOLU 1PG11G	kryt zásuvky Weidmueller,HDC 04A KOLU 1PG11G,1652500000		
1	HDC 04A TOLU 1PGG	kryt vidlice Weidmueller,HDC 04A TOLU 1PGG,1652470000		
1	HDC HA 3FS	zásuvka Weidmueller,HDC HA 3FS,1498200000		
1	HDC HA 3MS	vidlice Weidmueller,HDC HA 3MS,1498100000		
1	HRC3/047	MURR HRC3/047-400VAC,10kW		
1	IRC310/500KA	LARM IRC310/500KA		
1	JBC E2532-0903	Elektrov, JBC E2532-0903, 53VA,230V/15V-1A,18V-2,1A		
1	JBC E4050-515	Elektrov, JBC E4050- 515,315VA,400V/24V		
1	JZA4 4P0 BAA	OMRON J1000 JZA4 4P0 BAA		
1	KBPC 1504 W	SOS KBPC 1504 W, 15A/400V, obj.č.E080066		
1	KBU 6J	SOS KBU 6J, 6A/600V,obj.č.S012102, RoHS		
1	LA1KN11	Telemecanique LA1KN11		
5	LA4 KE1B	Telemec odruš.člen LA4 KE1B		
1	LBP-S60c	Martinásek,lampa halogen LBP-S60c		
1	LC1K0910B7	Telemec LC1K0910B7		
4	LC1K0910B7	Telemecanique LC1K0910B7		
1	LC1K1210B7	Telemecanique LC1K1210B7		
2	LIYCY 3Dx0,50	LIYCY 3Dx0,50		
8	LIYCY 14x0,14	UNITRONIC,LIYCY 14x0,14		
1	Line laser	Provazník-Line laser		
1	MAHL-ABF/10E0	řídící systém MAHL-ABF/10E0		
1	NVZ2R	Obzor Zlín ovladač NVZ2R		
1	PE12	I-center,mústek rozbočovací PE12 zelený 12x16mm2		
2	Pg11	vývodka Pg11		
4	RC3/022	MURR RC3/022,400VAC,5,5kW		
12	RJ2S-CL	IDEC,patice RJ2S-CL		

pieces /m	Type	Description	Maker	Price
3	RT424524	Schrack RT424524		
3	SAK2,5	Weidmueller SAK2,5		
1	SAK2,5	Weidmueller SAK2,5 modrá		
7	SFR.4	Schrack pojist.svorka SFR.4		
12	SJ2S-07L	IDEC,relé SJ2S-07L		
2	T1A	pojistka trubičková 5x20mm, T1,6A		
3	T1A	pojistka trubičková 5x20mm, T1A		
2	T2A	pojistka trubičková 5x20mm, T2A		
1	Telemec. ZBE AS844	Telemecanique ZBE AS844 ovládací hlavice		
1	Telemec. ZBE AZ009	Telemecanique ZBE AZ009 spojovací díl		
2	Telemec. ZBE-102	Telemecanique ZBE 102 spínací jednotka jednoduchá		
5	VLO10 1P	Schrack pojist.odpínač VLO10 1P		
1	VLO10 3P	Schrack pojist.odpínač VLO10 3P		
1	VSN20	Obzor Zlín VSN20		
40	ZDK1.5	Weidmueller ZDK1.5		
23	ZDU2.5	Weidmueller ZDU2.5		
2	ZDU2.5	Weidmueller ZDU2.5 modrá		
5	ZPE2,5	Weidmueller ZPE2,5		
1	ZPE2.5	Weidmueller ZPE2.5		
1	napaječ 24VDC	PEGAS ELEKTRO napaječ 24VDC		
1	strojní dodávka	Hytos prop.ventil PRM2-04,24VDC,0,8A		
8	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		
1	strojní dodávka	součást hydroagregátu		
1	tlak.snímač	součást hydrauliky		
1	zemnicí svorka			

Name	Type	Description	Maker	Page/ column
-WL11 (9.15)	CYSY 5Cx2,5	CYSY 5Cx2,5		11/2
-WL12 (8.20)	CMFM 4Bx2.5	CMFM 4Bx2.5		11/15
-WL14 (4.40)	CYSY 4Bx1,5	CYSY 4Bx1,5		11/7
-WL15 (2.40)	CYSY 4Bx1,5	CYSY 4Bx1,5		11/6
-WL16 (7.30)	CYSY 3Cx1,5	CYSY 3Cx1,5		11/16
-WL18A (7)	CYSY 4Bx1,5	CYSY 4Bx1,5		11/18
-WL19 (8.30)	CYSY 4Bx1,5	CYSY 4Bx1,5		11/13
-WL31 (2.60)	CMFM 4Dx0,5	CMFM 4Dx0,5		13
-WL34 (2.30)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL36 (2.30)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL37 (2.40)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL47 (2.40)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL50 (2.30)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL51 (2.40)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL81 (2.30)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL82 (2.30)	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WL101 (8.50)	CYLY 2Ax0,5	CYLY 2Ax0,5		12
-WL102 (7.40)	CYLY 2Ax0,5	CYLY 2Ax0,5		12
-WL103	CYLY 2Ax0,5	CYLY 2Ax0,5		14
-WS11 (8.60)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS11A (7.30)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS12 (8.70)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS12A (2.50)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS13 (9.70)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS15 (9)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS16 (8.80)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS17A (7)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS17B (2)	CYLY 2Ax0,5	CYLY 2Ax0,5		13
-WS48 (8)	LIYCY 14x0,14	UNITRONIC,LIYCY 14x0,14		13
-XB1A	CA3LD	SOS,S058764,konektor Hirschmann CA3LD		13
-XB1B	CA3LS	SOS,S058765,konektor Hirschmann CA3LS		13
-AP	strojnı dodávka	součást hydroagregátu		14
-BQ9	IRC310/500KA	LARM IRC310/500KA		13
-HL4	LBP-S60c	Martinásek,lampa halogen LBP-S60c		12

Name	Type	Description	Maker	Page/ column
-HL4A	Line laser	Provazník-Line laser		12
-M1	4kW,400VAC,9,2A	motor Cantoni PSkG100L-4		11/16
-M2	0,12kW,400V,0,33A	EP Slavkov,3COA4-12HP1		11/8
-M3	0,9kW,400VAC,1,98A	EP Slavkov,MA-AL80-1BF100-4A		11/6
-M4	230VAC,0,27A	motor Sunon DP200A		11/16
-M6	0,18kW,400VAC,0,65A	motor Cantoni SKg 63-482		11/18
-M7	0,12kW,400VAC,0,42A	motor Siemens 1LA7060-4AB10		11/14
-SQ1	FR693-D1	Pizzato FR693-D1		13
-SQ1A	FR693-D1	Pizzato FR693-D1		13
-SQ2	FR501	Pizzato FR501		13
-SQ2A	tlak.snímač	součást hydrauliky		13
-SQ4	FR502	Pizzato FR502		13
-SQ4A	FF4115-3DN	Pizzato FF4115-3DN		13
-SQ27	FR502	Pizzato FR502		13
-WL18B (2)	CYSY 4Bx1,5	CYSY 4Bx1,5		11/18
-XA1A	HDC 04A KOLU 1PG11G	Kryt zásuvky Weidmueller,HDC 04A KOLU 1PG11G,1652500000		11/19
-XA1A	Pg11	vývodka Pg11		11/19
-XA1A	HDC HA 3FS	zásuvka Weidmueller,HDC HA 3FS,1498200000		11/18
-XA1B	HDC 04A TOLU 1PGG	kryt vidlice Weidmueller,HDC 04A TOLU 1PGG,1652470000		11/19
-XA1B	HDC HA 3MS	vidlice Weidmueller,HDC HA 3MS,1498100000		11/18
-XA1B	Pg11	vývodka Pg11		11/19
-XN	zemnicí svorka			11/4
-Y1	strojní dodávka	Hytos prop.ventil PRM2-04,24VDC,0,8A		13
-Y2	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y3	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y3A	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y9	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y11	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y12	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y38	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
-Y39	strojní dodávka	Hytos ventil RPE3-04,24VDC/1,16A		14
VD2	1N5408	dioda 1N5408,3A,1000V,S001882		14
VD3	1N5408	dioda 1N5408,3A,1000V,S001882		14
VD3A	1N5408	dioda 1N5408,3A,1000V,S001882		14

Name	Type	Description	Maker	Page/ column
VD9	1N5408	dioda 1N5408,3A,1000V,S001882		14
VD11	1N5408	dioda 1N5408,3A,1000V,S001882		14
VD12	1N5408	dioda 1N5408,3A,1000V,S001882		14
VD38	1N5408	dioda 1N5408,3A,1000V,S001882		14
VD39	1N5408	dioda 1N5408,3A,1000V,S001882		14
-A1	MAHL-ABF/10E0	řídící systém MAHL-ABF/10E0		9/2
-A6	napaječ 24VDC	PEGAS ELEKTRO napaječ 24VDC		12
-A9	JZA4 4P0 BAA	OMRON J1000 JZA4 4P0 BAA		11/13
-C1	4700u/50V	kondenzátor ellyt. 4700u/50V		12
-C2	4700u/50V	kondenzátor ellyt. 4700u/50V		12
-FU1	VLO10 1P	Schrack pojist.odpínač VLO10 1P		12
-FU1	2A,aM	Schrack pojistka válcová C10x38 2A,aM		12
-FU2	VLO10 1P	Schrack pojist.odpínač VLO10 1P		12
-FU2	2A,aM	Schrack pojistka válcová C10x38 2A,aM		12
-FU3	FPC.10	Schrack pojist.svorka 6,3x32 FPC.10		12
-FU3	F3,15A	pojistka trubičková 6,3x32mm, F3,15A		12
-FU3A	FPC.10	Schrack pojist.svorka 6,3x32 FPC.10		12
-FU3A	F8A	pojistka trubičková 6,3x32mm, F8A		12
-FU4	SFR.4	Schrack pojist.svorka SFR.4		12
-FU4	T2A	pojistka trubičková 5x20mm, T2A		12
-FU4A	SFR.4	Schrack pojist.svorka SFR.4		12
-FU4A	T2A	pojistka trubičková 5x20mm, T2A		12
-FU5	VLO10 1P	Schrack pojist.odpínač VLO10 1P		12
-FU5	1A,aM	Schrack pojistka válcová C10x38 1A,aM		12
-FU6	VLO10 1P	Schrack pojist.odpínač VLO10 1P		12
-FU6	1A,aM	Schrack pojistka válcová C10x38 1A,aM		12
-FU7	SFR.4	Schrack pojist.svorka SFR.4		12
-FU7	T1A	pojistka trubičková 5x20mm, T1A		12
-FU7A	SFR.4	Schrack pojist.svorka SFR.4		12
-FU7A	T1A	pojistka trubičková 5x20mm, T1A		12
-FU8	VLO10 1P	Schrack pojist.odpínač VLO10 1P		11/16
-FU8	1A,aM	Schrack pojistka válcová C10x38 1A,aM		11/16
-FU9	SFR.4	Schrack pojist.svorka SFR.4		12
-FU9	T1A	pojistka trubičková 5x20mm, T1,6A		12

Name	Type	Description	Maker	Page/ column
-FU9A	SFR.4	Schrack pojist.svorka SFR.4		12
-FU9A	T1A	pojistka trubičková 5x20mm, T1,6A		12
-FU10	VLO10 3P	Schrack pojist.odpínač VLO10 3P		11/9
-FU10 (3)	16A,aM	Schrack pojistka válcová C10x38 16A,aM		11/10
-FU12	SFR.4	Schrack pojist.svorka SFR.4		12
-FU12	T1A	pojistka trubičková 5x20mm, T1A		12
-KA1A	RJ2S-CL	IDEC,patice RJ2S-CL		13
-KA1A	SJ2S-07L	IDEC,relé SJ2S-07L		13
-KA1A	RT424524	Schrack RT424524		11/10
-KA1B	RJ2S-CL	IDEC,patice RJ2S-CL		13
-KA1B	SJ2S-07L	IDEC,relé SJ2S-07L		13
-KA1B	RT424524	Schrack RT424524		11/11
-KA1C	RJ2S-CL	IDEC,patice RJ2S-CL		13
-KA1C	SJ2S-07L	IDEC,relé SJ2S-07L		13
-KA1D	RJ2S-CL	IDEC,patice RJ2S-CL		13
-KA1D	SJ2S-07L	IDEC,relé SJ2S-07L		13
-KA1D	RT424524	Schrack RT424524		14
-KA2	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA2	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA3	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA3	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA3A	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA3A	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA9	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA9	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA11	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA11	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA12	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA12	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA38	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA38	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KA39	RJ2S-CL	IDEC,patice RJ2S-CL		14
-KA39	SJ2S-07L	IDEC,relé SJ2S-07L		14
-KM2	LA4 KE1B	Telemec odruš.člen LA4 KE1B		14

Name	Type	Description	Maker	Page/ column
-KM2	LC1K0910B7	Telemecanique LC1K0910B7		14
-KM3	LA4 KE1B	Telemec odruš.člen LA4 KE1B		14
-KM3	LC1K0910B7	Telemecanique LC1K0910B7		14
-KM4	LA4 KE1B	Telemec odruš.člen LA4 KE1B		12
-KM4	LC1K1210B7	Telemecanique LC1K1210B7		12
-KM5	LC1K0910B7	Telemec LC1K0910B7		14
-KM5	LA4 KE1B	Telemec odruš.člen LA4 KE1B		14
-KM5	LC1K0910B7	Telemecanique LC1K0910B7		11/18
-KM6	LA4 KE1B	Telemec odruš.člen LA4 KE1B		14
-KM6	LC1K0910B7	Telemecanique LC1K0910B7		14
-KM6.1	LA1KN11	Telemecanique LA1KN11		11/16
-Q1	VSN20	Obzor Zlín VSN20		11/4
-Q1	NVZ2R	Obzor Zlín ovladač NVZ2R		11/4
-QF2	GZ1AN11	Telemec pom.konttakty GZ1AN11		13
-QF2	GV2AF01	Telemec prpoj.blok GV2AF01		11/6
-QF2	GZ1M07	Telemec spouštěč GZ1M07		11/6
-QF5	GV2AF01	Telemec prpoj.blok GV2AF01		11/18
-QF5	GZ1M05	Telemec spouštěč GZ1M05		11/18
-QF5	GZ1AN11	Telemec pom.konttakty GZ1AN11		13
-QF6	GV2AF01	Telemec prpoj.blok GV2AF01		11/8
-QF6	GZ1AN11	Telemec pom.konttakty GZ1AN11		13
-QF6	GZ1M03	Telemec spouštěč GZ1M03		11/8
-QF8	GV2AF01	Telemec prpoj.blok GV2AF01		11/13
-QF8	GZ1AN11	Telemec pom.konttakty GZ1AN11		13
-QF8	GZ1M04	Telemec spouštěč GZ1M04		11/12
-SA1 (2)	Telemec. ZBE-102	Telemecanique ZBE 102 spínací jednotka jednoduchá		11/10
-SA1	Telemec. ZBE AS844	Telemecanique ZBE AS844 ovládací hlavice		11/11
-SA1	Telemec. ZBE AZ009	Telemecanique ZBE AZ009 spojovací díl		11/11
-T1	BUX 48A	tranzistor BUX 48A		12
-TR1	JBC E4050-515	Elektrokov,JBC E4050- 515,315VA,400V/24V		12
-TR2	JBC E2532-0903	Elektrokov,JBC E2532-0903, 53VA,230V/15V-1A,18V-2,1A		12
-TR3	10100.009	CZECHMONT 10100.009,40VA,230V/2x12V,1.6A		12
-U1	KBPC 1504 W	SOS KBPC 1504 W, 15A/400V, obj.č.E080066		12
-U7	KBU 6J	SOS KBU 6J, 6A/600V,obj.č.S012102, RoHS		12

Name	Type	Description	Maker	Page/ column
-W11 (2.10)	4Bx2,5	Draka Kabely YSLY-JZ 4Bx2,5		11/4
-W12 (1.70)	4Bx2,5	Draka Kabely YSLY-JZ 4Bx2,5		11/5
-W13 (1.90)	CYLY 2Ax1	CYLY 2Ax1		11/10
-W14 (1.80)	CYLY 2x0,5	CYLY 2x0,5		12
-W15 (2.40)	CYSY 5Cx0,75	CYSY 5Cx0,75		12
-W16 (2.20)	CMFM 4Dx0,5	CMFM 4Dx0,5		11/14
-W17 (2)	LiYCY 3Dx0,50	LiYCY 3Dx0,50		13
-X1	EK2.5	Weidmueller EK2.5		11/3
-X1 (3)	SAK2,5	Weidmueller SAK2,5		11/3
-X1	SAK2,5	Weidmueller SAK2,5 modrá		11/3
-X1 (40)	ZDK1.5	Weidmueller ZDK1.5		13
-X1 (23)	ZDU2.5	Weidmueller ZDU2.5		11/5
-X1 (2)	ZDU2.5	Weidmueller ZDU2.5 modrá		11/16
-X1 (5)	ZPE2,5	Weidmueller ZPE2,5		11/8
-X1	ZPE2.5	Weidmueller ZPE2.5		12
-XPE	PE12	I-center,mústek rozbočovací PE12 zelený 12x16mm2		11/3
-ZB1	A1000-FIV3020-RE	Omron,odrušovací filtr A1000-FIV3020-RE		11/11
-ZB2	HRC3/047	MURR HRC3/047-400VAC,10kW		11/7
-ZB4	RC3/022	MURR RC3/022,400VAC,5,5kW		11/7
-ZB5	RC3/022	MURR RC3/022,400VAC,5,5kW		11/9
-ZB7	RC3/022	MURR RC3/022,400VAC,5,5kW		11/19
-ZB8	RC3/022	MURR RC3/022,400VAC,5,5kW		11/15
-ZB10	F.AI.DB.2150.ZA	SOS, Arcotronics síť.filtr F.AI.DB.2150.ZA, 1,5A,flexi		12

External connection		Terminal unit			Internal connection	
Component	Cable	Terminal link	Term.unit	Terminal	Cable	Component
			-XB1B	1	-WS17B:1	=PS-SQ27:2
			-XB1B	2	-WS17B:2	=PS-SQ27:1
			=PS-XA1B	1	-WL18B:1	=PS-M6:U
			=PS-XA1B	2	-WL18B:2	=PS-M6:V
			=PS-XA1B	3	-WL18B:3	=PS-M6:W
			=PS-XA1B	PE	-WL18B:GNYE	=PS-M6:4
			=PS-XN	1		=RM-XPE:12
	-WL11:1		=RM-X1	1	-W11:1	=RM-Q1:1
	-WL11:2		=RM-X1	2	-W11:2	=RM-Q1:3
	-WL11:3		=RM-X1	3	-W11:3	=RM-Q1:5
	-WL11:4		=RM-X1	4		=RM-X1:18
	-WL11:5		=RM-X1	5		=RM-XPE:1
			=RM-X1	6	-W12:1	=RM-Q1:2
			=RM-X1	6		=RM-QF2:1
			=RM-X1	7	-W12:2	=RM-Q1:4
			=RM-X1	7		=RM-QF2:3
			=RM-X1	8	-W12:3	=RM-Q1:6
			=RM-X1	8		=RM-QF2:5
=PS-M2:U	-WL14:1		=RM-X1	9		=RM-ZB5:U
=PS-M2:V	-WL14:2		=RM-X1	10		=RM-ZB5:V
=PS-M2:W	-WL14:3		=RM-X1	11		=RM-ZB5:W
=PS-M2:4	-WL14:GNYE		=RM-X1	12		=RM-XPE:2
=PS-M3:U	-WL15:1		=RM-X1	13		=RM-ZB4:U
=PS-M3:V	-WL15:2		=RM-X1	14		=RM-ZB4:V
=PS-M3:W	-WL15:3		=RM-X1	15		=RM-ZB4:W
=PS-M3:4	-WL15:GNYE		=RM-X1	16		=RM-XPE:2
=PS-M4:2	-WL16:1		=RM-X1	17		=RM-KM6.1:54
=PS-M4:1	-WL16:2		=RM-X1	18		=RM-X1:4
=PS-M4:3	-WL16:GNYE		=RM-X1	19		=RM-XPE:2

External connection		Terminal unit			Internal connection	
Component	Cable	Terminal link	Term.unit	Terminal	Cable	Component
=PS-XA1A:1	-WL18A:1		=RM-X1	20		=RM-ZB7:U
=PS-XA1A:2	-WL18A:2		=RM-X1	21		=RM-ZB7:V
=PS-XA1A:3	-WL18A:3		=RM-X1	22		=RM-ZB7:W
=PS-XA1A:PE	-WL18A:GNYE		=RM-X1	23		=RM-XPE:2
=PS-M7:U	-WL19:1		=RM-X1	24		=RM-ZB8:U
=PS-M7:V	-WL19:2		=RM-X1	25		=RM-ZB8:V
=PS-M7:W	-WL19:3		=RM-X1	26		=RM-ZB8:W
=PS-M7:4	-WL19:GNYE		=RM-X1	27		=RM-XPE:2
			=RM-X1	28		=RM-FU1:2
			=RM-X1	29		=RM-FU2:2
			=RM-X1	30		=RM-FU5:2
			=RM-X1	31		=RM-TR3:P_0V
			=RM-X1	32		=RM-XPE:2
=PS-SQ1:2	-WS11:1		● =RM-X1	33		=RM-FU12:1
=PS-SQ1:1	-WS11:2		● =RM-X1	34		
=PS-SQ1A:2	-WS11A:1		● =RM-X1	35		
=PS-SQ1A:1	-WS11A:2		=RM-X1	36		=RM-KA1A:A1
=PS-SQ2:2	-WS12:1		● =RM-X1	37		
=PS-SQ2:1	-WS12:2		● =RM-X1	38		
=PS-SQ2A:2	-WS12A:1		● =RM-X1	39		
=PS-SQ2A:1	-WS12A:2		=RM-X1	40		=RM-KA1B:A1
=RM-X1:42			● =RM-X1	41		
=RM-X1:41			=RM-X1	42		=RM-KA1C:A1
-XB1A:1	-WS17A:1		● =RM-X1	43		
-XB1A:2	-WS17A:2		=RM-X1	44		=RM-KA1D:A1
=PS-SQ4:1	-WS15:1		● =RM-X1	45		=RM-A1:31.09
=PS-SQ4:2	-WS15:2		● =RM-X1	46		
=PS-SQ4A:1	-WS16:1		● =RM-X1	47		
=PS-SQ4A:2	-WS16:2		● =RM-X1	48		
			=RM-X1	49		=RM-A1:32.12
			● =RM-X1	50		=RM-KA1D:24
=PS-Y1:1	-WL31:1		=RM-X1	51		=RM-X1:75

FROM				CABLE			TO			
Ref.	Device	Terminal	Page/column	Cable	Wire	Potential	Ref.	Device	Terminal	Page/column
				-WL11	1	L1	=RM	-X1		11/3
				-WL11	2	L2	=RM	-X1		11/3
				-WL11	3	L3	=RM	-X1		11/3
				-WL11	4	N	=RM	-X1		11/3
				-WL11	5	PE	=RM	-X1		11/3
=RM	-A9	U/T1	11/14	-WL12	1		=PS	-M1	U/T1	11/15
=RM	-A9	V/T2	11/14	-WL12	2		=PS	-M1	V/T2	11/16
=RM	-A9	W/T3	11/14	-WL12	3		=PS	-M1	W/T3	11/16
=RM	-A9	PE_2	11/14	-WL12	GNYE		=PS	-M1	PE_2	11/16
=PS	-M1	4	11/16	-WL12	S				4	
=RM	-X1	9	11/8	-WL14	1		=PS	-M2	9	11/8
=RM	-X1	10	11/8	-WL14	2		=PS	-M2	10	11/8
=RM	-X1	11	11/8	-WL14	3		=PS	-M2	11	11/8
=RM	-X1	12	11/8	-WL14	GNYE		=PS	-M2	12	11/8
=RM	-X1	13	11/6	-WL15	1		=PS	-M3	13	11/6
=RM	-X1	14	11/6	-WL15	2		=PS	-M3	14	11/6
=RM	-X1	15	11/6	-WL15	3		=PS	-M3	15	11/6
=RM	-X1	16	11/7	-WL15	GNYE		=PS	-M3	16	11/7
=RM	-X1	17	11/16	-WL16	1		=PS	-M4	17	11/16
=RM	-X1	18	11/16	-WL16	2		=PS	-M4	18	11/16
=RM	-X1	19	11/16	-WL16	GNYE		=PS	-M4	19	11/16
=RM	-X1	20	11/18	-WL18A	1		=PS	-XA1A	20	11/18
=RM	-X1	21	11/18	-WL18A	2		=PS	-XA1A	21	11/18
=RM	-X1	22	11/18	-WL18A	3		=PS	-XA1A	22	11/18
=RM	-X1	23	11/19	-WL18A	GNYE		=PS	-XA1A	23	11/19
=RM	-X1	24	11/14	-WL19	1		=PS	-M7	24	11/14
=RM	-X1	25	11/14	-WL19	2		=PS	-M7	25	11/14

FROM				CABLE			TO			
Ref.	Device	Terminal	Page/column	Cable	Wire	Potential	Ref.	Device	Terminal	Page/column
=RM	-X1	26	11/14	-WL19	3		=PS	-M7	26	11/14
=RM	-X1	27	11/14	-WL19	GNYE		=PS	-M7	27	11/14
=RM	-X1	51	13	-WL31	1		=PS	-Y1	51	13
=RM	-X1	53	13	-WL31	2		=PS	-Y1	53	13
=RM	-XPE	2	11/3	-WL31	S	PE			2	
=PS	-Y1	3	13	-WL31	3		=RM	-X1	3	13
=RM	-X1	55	14	-WL34	1		=PS	-Y2	55	14
=PS	-Y2	A2	14	-WL34	2		=RM	-X1	A2	14
=RM	-X1	57	14	-WL36	1		=PS	-Y3	57	14
=PS	-Y3	A2	14	-WL36	2		=RM	-X1	A2	14
=RM	-X1	59	14	-WL37	1		=PS	-Y3A	59	14
=PS	-Y3A	A2	14	-WL37	2		=RM	-X1	A2	14
=RM	-X1	61	14	-WL47	1		=PS	-Y9	61	14
=PS	-Y9	A2	14	-WL47	2		=RM	-X1	A2	14
=RM	-X1	63	14	-WL50	1		=PS	-Y11	63	14
=PS	-Y11	A2	14	-WL50	2		=RM	-X1	A2	14
=RM	-X1	65	14	-WL51	1		=PS	-Y12	65	14
=PS	-Y12	A2	14	-WL51	2		=RM	-X1	A2	14
=RM	-X1	67	14	-WL81	1		=PS	-Y38	67	14
=PS	-Y38	A2	14	-WL81	2		=RM	-X1	A2	14
=RM	-X1	69	14	-WL82	1		=PS	-Y39	69	14
=PS	-Y39	A2	14	-WL82	2		=RM	-X1	A2	14
=RM	-X1	75	12	-WL101	1		=PS	-HL4A	75	12

FROM				CABLE			TO			
Ref.	Device	Terminal	Page/column	Cable	Wire	Potential	Ref.	Device	Terminal	Page/column
=RM	-X1	76	12	-WL101	2		=PS	-HL4A	76	12
=RM	-X1	73	12	-WL102	1		=PS	-HL4	73	12
=RM	-X1	74	12	-WL102	2		=PS	-HL4	74	12
=RM	-X1	71	14	-WL103	1		=PS	-AP	71	14
=PS	-AP	A2	14	-WL103	2		=RM	-X1	A2	14
=PS	-SQ1	2	13	-WS11	1		=RM	-X1	2	13
=PS	-SQ1	1	13	-WS11	2		=RM	-X1	1	13
=PS	-SQ1A	2	13	-WS11A	1		=RM	-X1	2	13
=PS	-SQ1A	1	13	-WS11A	2		=RM	-X1	1	13
=PS	-SQ2	2	13	-WS12	1		=RM	-X1	2	13
=PS	-SQ2	1	13	-WS12	2		=RM	-X1	1	13
=PS	-SQ2A	2	13	-WS12A	1		=RM	-X1	2	13
=PS	-SQ2A	1	13	-WS12A	2		=RM	-X1	1	13
				-WS13	1					
				-WS13	2					
=PS	-SQ4	1	13	-WS15	1		=RM	-X1	1	13
=PS	-SQ4	2	13	-WS15	2		=RM	-X1	2	13
=PS	-SQ4A	1	13	-WS16	1		=RM	-X1	1	13
=PS	-SQ4A	2	13	-WS16	2		=RM	-X1	2	13
	-XB1A	1	13	-WS17A	1		=RM	-X1	1	13
	-XB1A	2	13	-WS17A	2		=RM	-X1	2	13
=PS	-SQ27	2	13	-WS17B	1			-XB1B	2	13

FROM				CABLE			TO			
Ref.	Device	Terminal	Page/column	Cable	Wire	Potential	Ref.	Device	Terminal	Page/column
=PS	-SQ27	1	13	-WS17B	2			-XB1B	1	13
=PS	-BQ9	10	13	-WS48	BK		=RM	-A1	10	13
=PS	-BQ9	11	13	-WS48	BN		=RM	-A1	11	13
=PS	-BQ9	3	13	-WS48	BU		=RM	-A1	3	13
=PS	-BQ9	8	13	-WS48	GN		=RM	-A1	8	13
=PS	-BQ9	9	13	-WS48	GND	PE	=RM	-XPE	9	11/3
=PS	-BQ9	2	13	-WS48	PK		=RM	-A1	2	13
=PS	-BQ9	12	13	-WS48	RD		=RM	-A1	12	13
=PS	-BQ9	5	13	-WS48	YE		=RM	-A1	5	13
=RM	-XPE	2	11/3	-WS48	S	PE			2	
=PS	-XA1B	1	11/18	-WL18B	1		=PS	-M6	1	11/18
=PS	-XA1B	2	11/18	-WL18B	2		=PS	-M6	2	11/18
=PS	-XA1B	3	11/18	-WL18B	3		=PS	-M6	3	11/18
=PS	-XA1B	PE	11/19	-WL18B	GNYE		=PS	-M6	PE	11/19
=RM	-X1	1	11/3	-W11	1		=RM	-Q1	1	11/4
=RM	-X1	2	11/3	-W11	2		=RM	-Q1	2	11/4
=RM	-X1	3	11/3	-W11	3		=RM	-Q1	3	11/4
=RM	-Q1	2	11/5	-W12	1		=RM	-X1	2	11/5
=RM	-Q1	4	11/5	-W12	2		=RM	-X1	4	11/5
=RM	-Q1	6	11/5	-W12	3		=RM	-X1	6	11/5
=RM	-A9	S3	11/12	-W13	1		=RM	-SA1	S3	11/10
=RM	-SA1	11A	11/10	-W13	2		=RM	-KA1A	11A	11/10
=RM	-FU3	2	12	-W14	3		=RM	-SA1	2	12
=RM	-SA1	11B	12	-W14	4		=RM	-KM4	11B	12
=RM	-FU7	2	12	-W15	1	A	=RM	-A1	2	13
=RM	-FU7A	2	12	-W15	2	B	=RM	-A1	2	13

FROM		CABLE			TO	
Ref.(=+)	Device	Name	Type	Lenght	Ref.(=+)	Device
		-WL11	CYSY 5Cx2,5	9,15m	=RM	-X1
=RM	-A9	-WL12	CMFM 4Bx2.5	8,2m	=PS	-M1
=RM	-X1	-WL14	CYSY 4Bx1,5	4,4m	=PS	-M2
=RM	-X1	-WL15	CYSY 4Bx1,5	2,4m	=PS	-M3
=RM	-X1	-WL16	CYSY 3Cx1,5	7,3m	=PS	-M4
=RM	-X1	-WL18A	CYSY 4Bx1,5	7,0m	=PS	-XA1A
=RM	-X1	-WL19	CYSY 4Bx1,5	8,3m	=PS	-M7
=RM	-X1	-WL31	CMFM 4Dx0,5	2,6m	=PS	-Y1
=RM	-X1	-WL34	CYLY 2Ax0,5	2,3m	=PS	-Y2
=RM	-X1	-WL36	CYLY 2Ax0,5	2,3m	=PS	-Y3
=RM	-X1	-WL37	CYLY 2Ax0,5	2,4m	=PS	-Y3A
=RM	-X1	-WL47	CYLY 2Ax0,5	2,4m	=PS	-Y9
=RM	-X1	-WL50	CYLY 2Ax0,5	2,3m	=PS	-Y11
=RM	-X1	-WL51	CYLY 2Ax0,5	2,4m	=PS	-Y12
=RM	-X1	-WL81	CYLY 2Ax0,5	2,3m	=PS	-Y38
=RM	-X1	-WL82	CYLY 2Ax0,5	2,3m	=PS	-Y39
=RM	-X1	-WL101	CYLY 2Ax0,5	8,5m	=PS	-HL4A

FROM		CABLE			TO	
Ref.(=+)	Device	Name	Type	Lenght	Ref.(=+)	Device
=RM	-X1	-WL102	CYLY 2Ax0,5	7,4m	=PS	-HL4
=RM	-X1	-WL103	CYLY 2Ax0,5	---	=PS	-AP
=PS	-SQ1	-WS11	CYLY 2Ax0,5	8,6m	=RM	-X1
=PS	-SQ1A	-WS11A	CYLY 2Ax0,5	7,3m	=RM	-X1
=PS	-SQ2	-WS12	CYLY 2Ax0,5	8,7m	=RM	-X1
=PS	-SQ2A	-WS12A	CYLY 2Ax0,5	2,5m	=RM	-X1
		-WS13	CYLY 2Ax0,5	9,7m		
=PS	-SQ4	-WS15	CYLY 2Ax0,5	9,0m	=RM	-X1
=PS	-SQ4A	-WS16	CYLY 2Ax0,5	8,8m	=RM	-X1
	-XB1A	-WS17A	CYLY 2Ax0,5	7,0m	=RM	-X1
=PS	-SQ27	-WS17B	CYLY 2Ax0,5	2,0m		-XB1B
=PS	-BQ9	-WS48	LIYCY 14x0,14	8,0m	=RM	-A1
=PS	-XA1B	=PS-WL18B	CYSY 4Bx1,5	2,0m	=PS	-M6
=RM	-X1	=RM-W11	4Bx2,5	2,1m	=RM	-Q1
=RM	-Q1	=RM-W12	4Bx2,5	1,7m	=RM	-X1
=RM	-SA1.1	=RM-W13	CYLY 2Ax1	1,9m	=RM	-KA1A
=RM	-SA1.2	=RM-W14	CYLY 2x0,5	1,8m	=RM	-KM4

