

9003**9003****Ing. Tisovčík Ivan - Elektromechanik****Zákazník**

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Zákazník
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Koncový zákazník**Pneumatic conveying. 9003.**

Koncový zákazník
 Koncový zákazník

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 Koncový zákazník
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make	Technology for manufacturing	power supply	TNS 3x400 V AC - 50 Hz
type	typ OCEP-P	control voltage	24 V DC - PELV
degree of protection	IP 54	input lead	Cu - 5x4 mm ²
		remarks	
standard	STN EN 60439-1 / STN 33 2000-4-41		
external influences	STN 33 2000-3		
enclosure	RITTAL AE-1060		
manufacturing date	2010		

designer	Ing. Tisovčík Ivan	created on	01.06.2010
		last modification	29.06.2011

Business and technical information

Manually processed drawings for +PROCESS, +AIR, +ER%0,. etc.	3,95 EUR excl. VAT for one page of documentation
Automatically generated pages in +0000	0,29 EUR excl. VAT for one page of documentation
Price of documentation in a language other than SK or CZ	0,37 EUR excl. VAT for one page of documentation

The price for documentation with an identical extent as this one "9003" is 126,66 EUR excl. VAT.

The most common languages of translations: GB, D, RU, PL, H, F, I, E, UA.

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The author does not accept liability for any damages that might occur during the preparation, realisation, assembly or operation of an appliance realised according to this documentation "9003".

Complete documentation is supplied in PDF format only.

It is not necessary to order the whole extent of automatically generated pages. The extent can be bigger as well as smaller in comparison to this group.

Agreed parts of automatically generated pages can be supplied also in XLS format. XLS format must be agreed beforehand.

The shape and content of automatically generated labels, test protocols, declarations and similar documents must be agreed beforehand.

Documentation "9003" does not include software equipment.

A proven and tested control program is supplied separately. Price of this program is 100 EUR excl. VAT.

Prices =0000+Cena are without guarantee

PC (pneumatic conveying) documentation variants – for a better orientation we recommend to look at the drawing =PND+PROCESS page 11.

This documentation „9003“ has code:

A0 B3 D2 E0 H J2 K2 M N P0 S1 T2,2kW

Entry of the product into pneumatic conveying

- Ax On the entry into pneumatic conveying, there are "x" pneumatic elements for material feed (purification, nozzle, hammer, ...)
- B0 Entry into pneumatic conveying is not controlled (closed)
- B1 Entry into pneumatic conveying is controlled (closed) by a two-way pneumatic flap valve
- B2 Entry into pneumatic conveying is controlled (closed) by a rotary feeder (On / Off mode)
- B3 Entry into pneumatic conveying is controlled (closed) by a rotary feeder (mode with a frequency converter) – (performance ratio 1:3 = 17 to 50Hz)
- B4 Entry into pneumatic conveying is controlled (closed) by a motor-controlled flap valve (1-phase servo drive)

Separator filter

- Dx For the filter regeneration, "x" pneumatically controlled nozzles are used
- E0 no pressure drop sensor on the filter
- E1 a binary differential pressure drop sensor on the filter
- E2 an analogue differential pressure drop sensor on the filter

Separator

- G Separator is weighed (technological dosing scale)
- H On the separator there is a wing sensor of maximum filling of the separator
- Jx On the outlet of the separator there are "x" pneumatic elements for material outlet (purification, nozzle, hammer, ...)
- K1 On the outlet from the separator there is a flap valve
- K2 On the outlet from the separator there is a pneumatically controlled flap valve
- K3 On the outlet from the separator there is a motor-controlled flap valve (1-phase servo drive)

Conveyance route

- M In front of the pump there is a pneumatically controlled suction valve (idle running)
- N In front of the pump in the conveyance route there is a pneumatically controlled valve (Quetsch)
- P0 no pressure drop sensor on the microfilter
- P1 a binary differential pressure drop sensor on the microfilter
- P2 an analogue differential pressure drop sensor on the microfilter

Pump

- S0 no conveying pressure sensor
- S1 a three-position binary conveying pressure sensor (two pressure levels)
- S2 an analogue conveying pressure sensor
- Tx The pump motor has a power of "x" kW

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			Last revision of project	
			Last revision of page	
			M = 1 : 1,00 27.06.2011 WUP0U34409	
				2

Technology for manufacturing

=INFO/2

1

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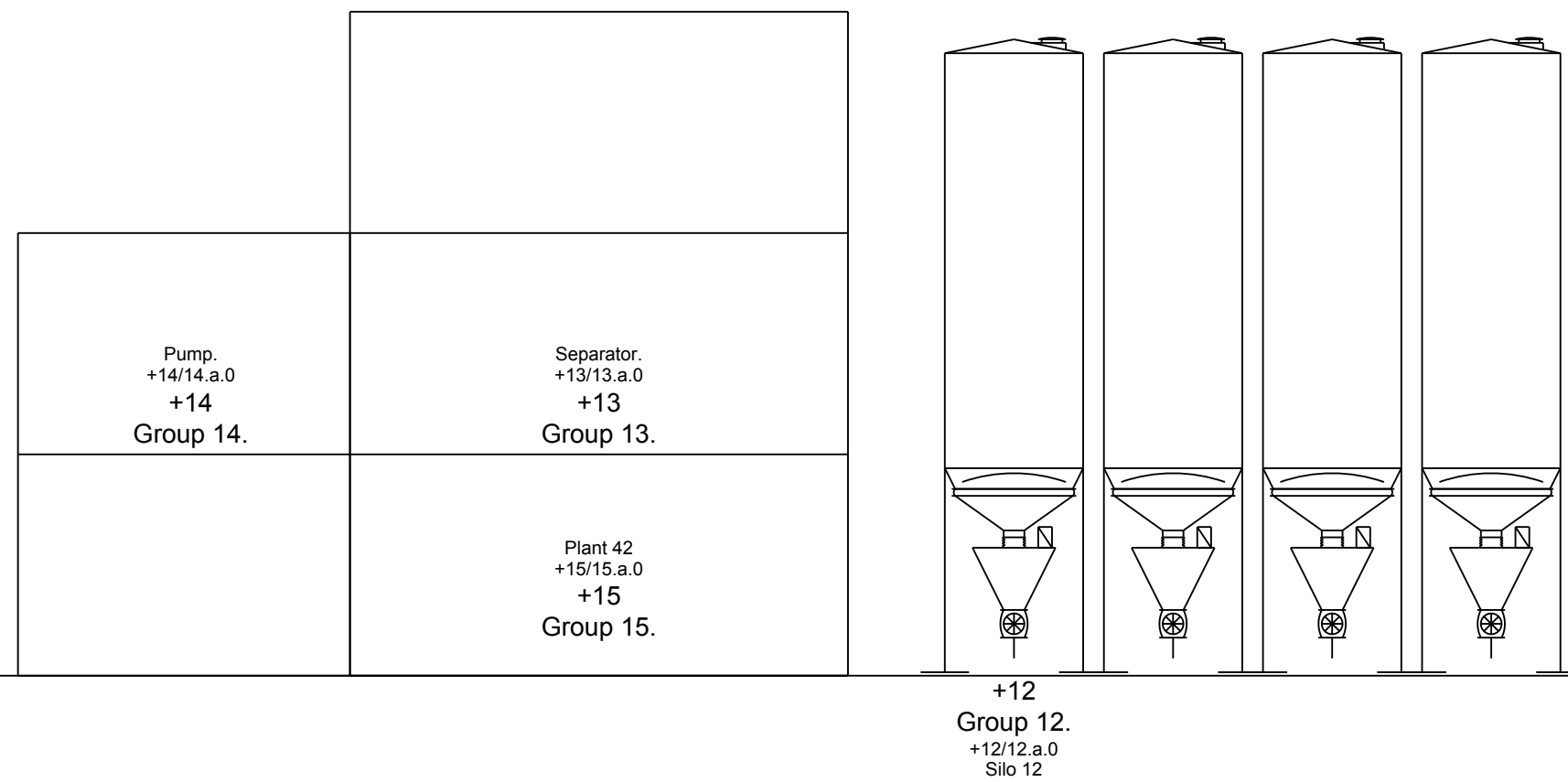
Pneumatic conveying. 9003.
 Koncový zákazník

Creator	V00	01.06.2010	Ing. Tisovčík Ivan
Last revision of project			
Last revision of page			
M = 1 : 1,00		27.06.2011	WUP0U34409

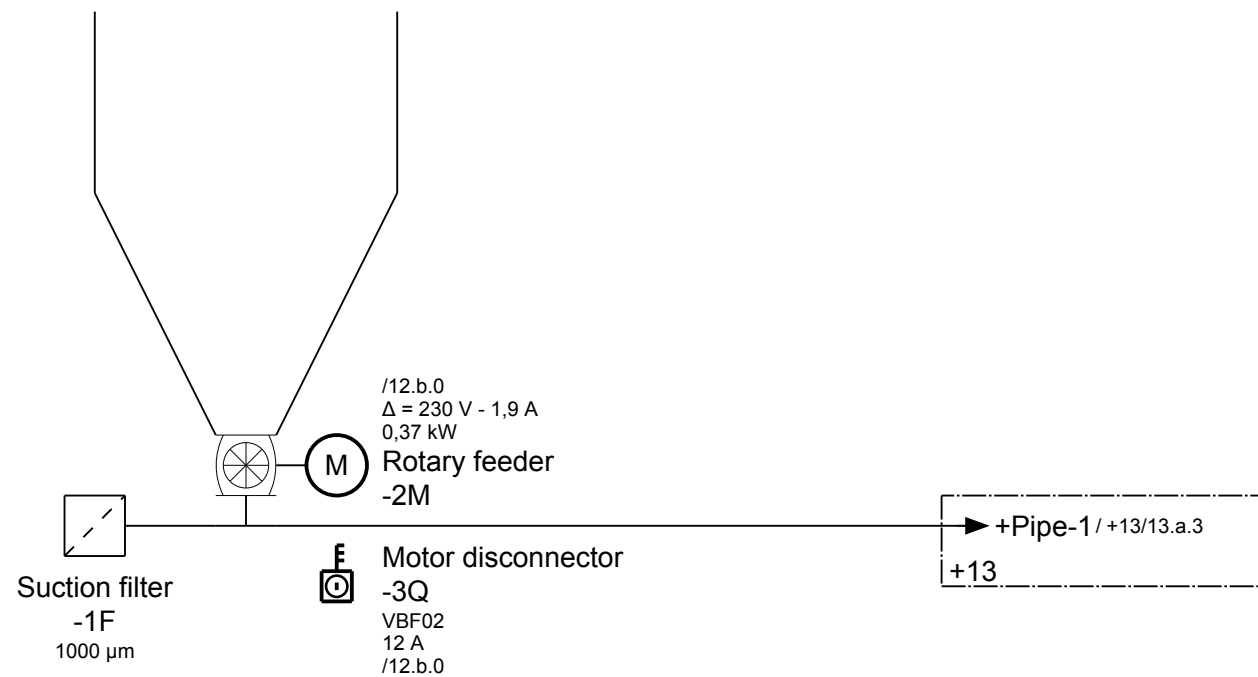
= PND

+ PROCESS\$

0



Group 12.

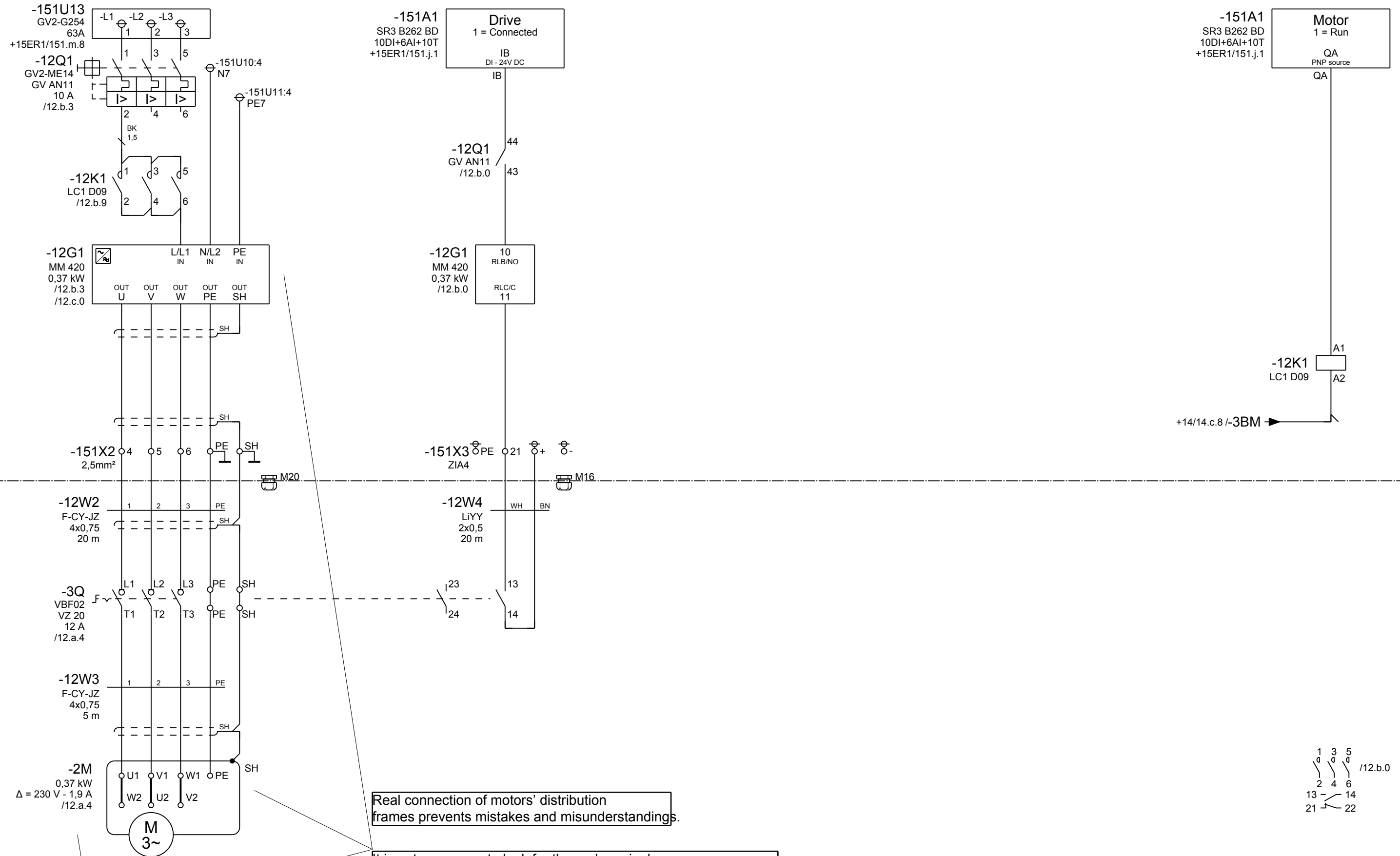


Group 12.

+12
+PROCESS/1.5

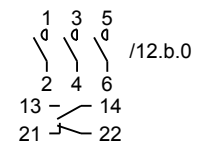
All non-electrical items on this drawing serve only for demonstration of complex documentation creation.
In the realisation documentation they are replaced by items according to specific project documentation.

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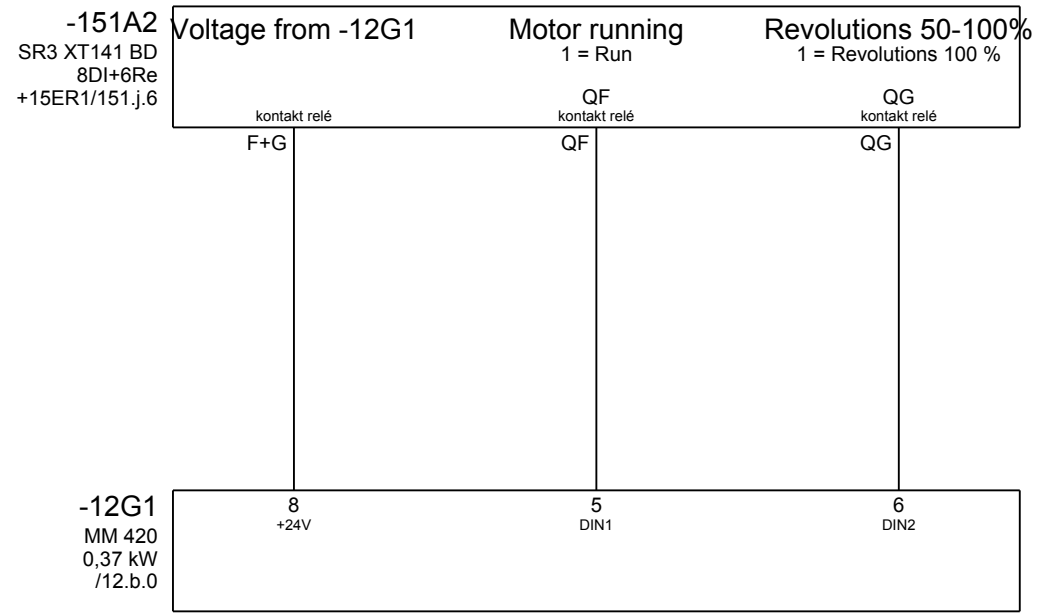


Real connection of motors' distribution frames prevents mistakes and misunderstandings.

It is not necessary to look for the real nominal current of the motor for a given connection on the label, and converter can be set already during distributor testing..



Motor



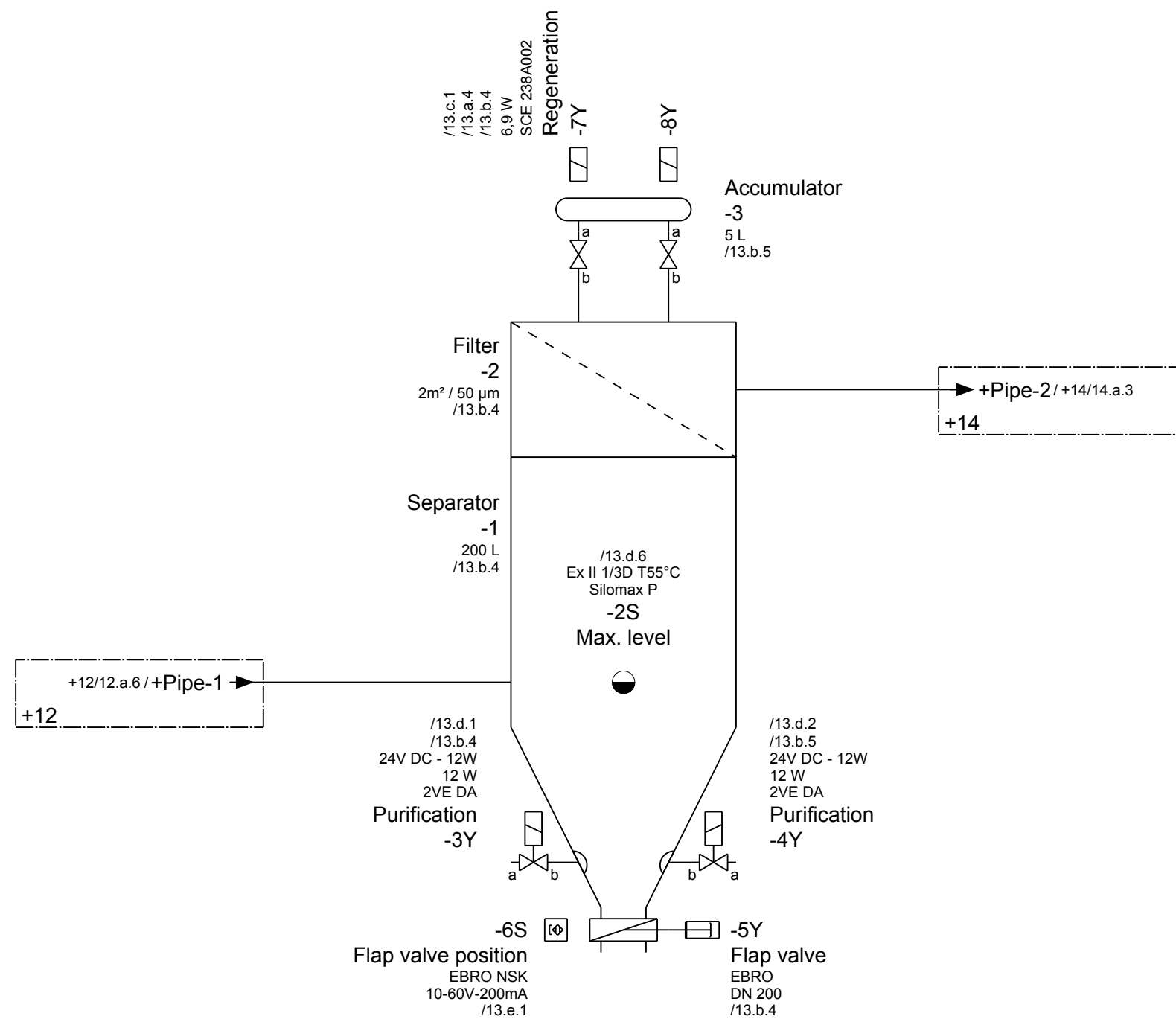
+15ER1

Voltage from -12G1 Motor running Revolutions 50-100%

Parameter	Function - description	unit	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
P0003	Access rights	expert	3									
P0010	Converter status	set-up	1									
P0005	Quantity for the display	Voltage on the motor	21									
P0006	Method of presentation	selected quantity	4									
P0205	Load characteristics	constant torque	0									
P0290	Converter behaviour at overload	Failure	1									
P0295	switching off ventilator	s	120									
P0304	Motor - voltage	V	230									
P0305	Motor - current	A	label									
P0307	Motor - power	kW	label									
P0308	Motor power factor	cos φ	label									
P0309	Motor efficiency	%	label									
P0310	Nominal motor frequency	Hz	label									
P0311	Nominal motor revolutions	rev./min.	label									
P0610	Motor protection I2t	Failure	2									
P0700	Method of converter distribution	Distribution frame of the converter	2									
P0701	Input function DIN1 - terminal 5	Running right	1									
P0702	Input function DIN2 - terminal 6	FF1-FF15	17									
..									
..									
..									
..									
..	Modification date		Projekt									
..	Changed by		Tisovčík									

Parameter	Function - description	unit	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
P0719	Present selection of controls and requested function ..		3									
P0731	Function RL1	Failure	0052:3									
P1000	Source of requested value	FFx	3									
P1001	Fixed frequency FF1	Hz	30									
P1002	Fixed frequency FF2	Hz	50									
..									
..									
..									
P1080	Minimal fout	Hz	20									
P1082	Maximal fout	Hz	50									
P1120	Run-up time (ramp)	s	1									
P1121	Run-down time (ramp)	s	1									
P1300	Control and regulation mode	U/f=const.	0									
P3900	End of parameter set-up	calculation	3									
P0971	Transfer into EEPROM	..	1									
..	Modification date		Projekt									
..	Changed by		Tisovčík									

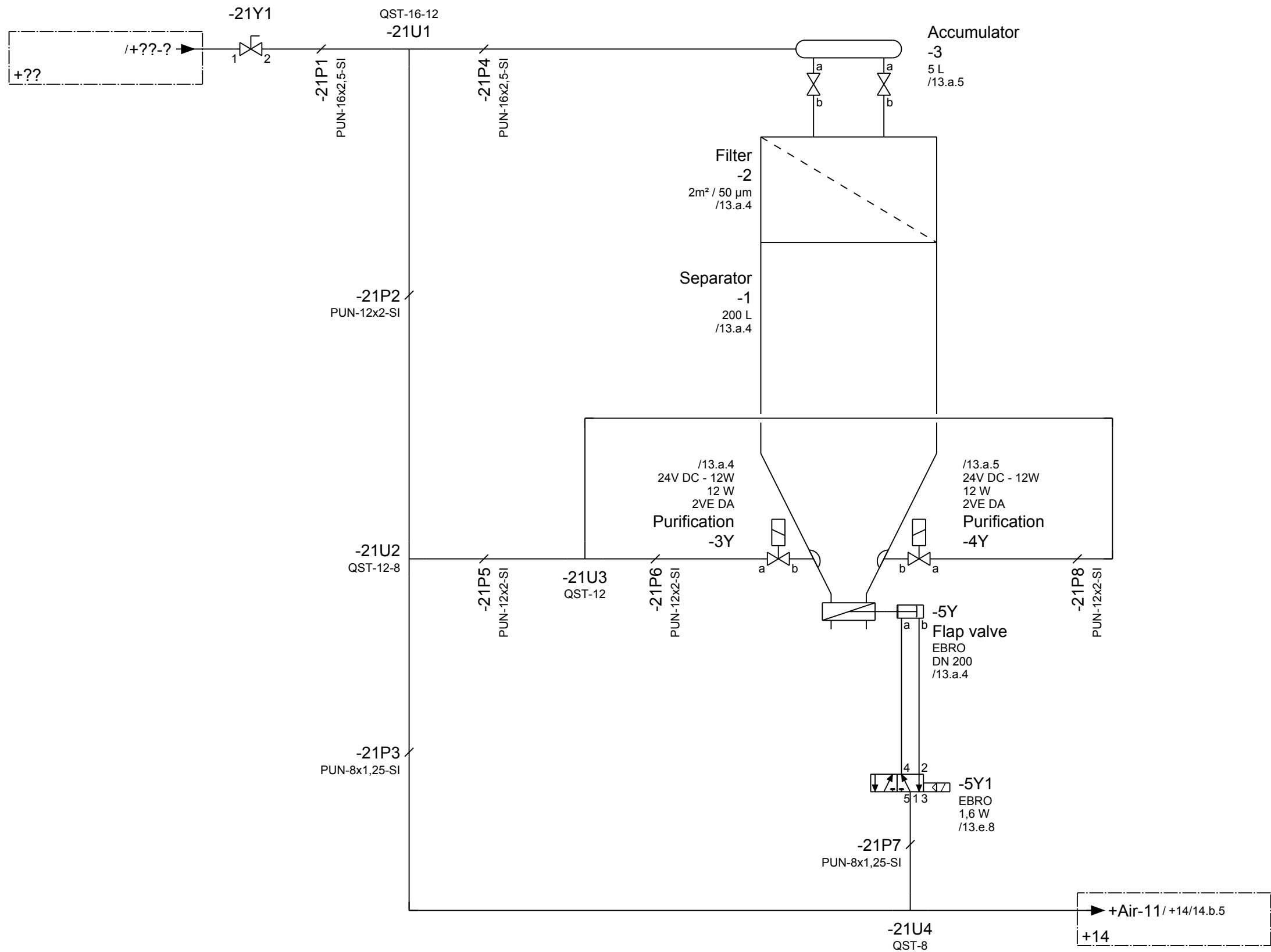
Group 13.



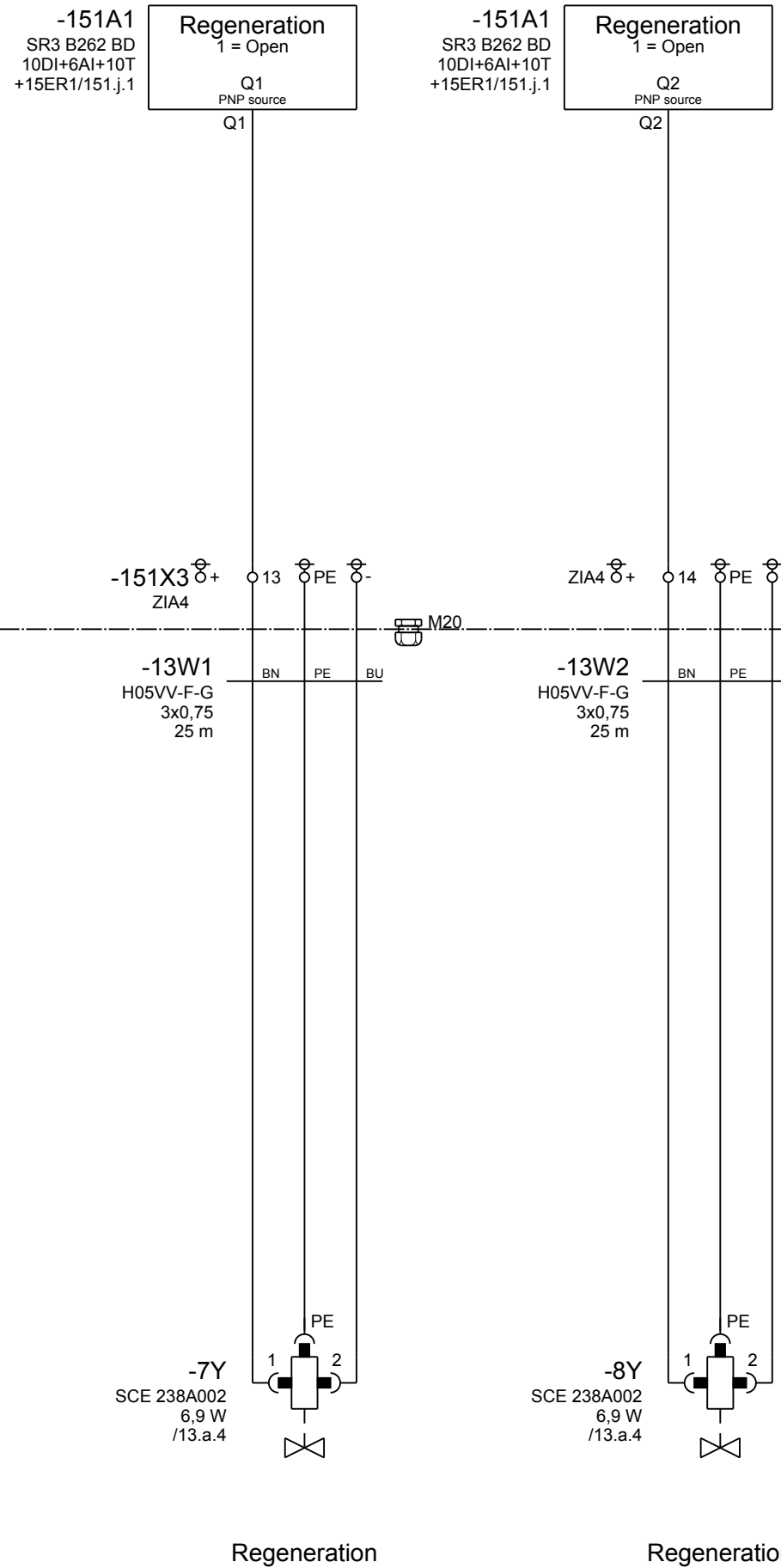
Group 13.

+13
+PROCESS/1.3

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-151A1
SR3 B262 BD
10DI+6AI+10T
+15ER1/151.j.1

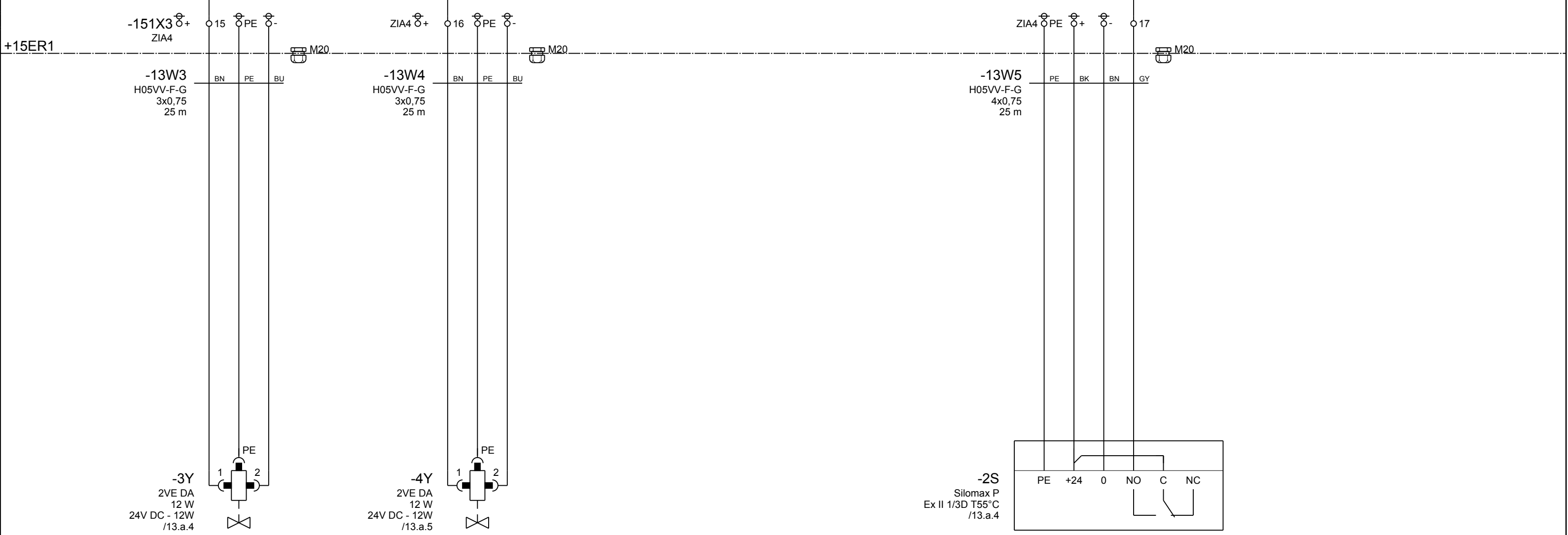
Purification
1 = Open
Q3
PNP source

-151A1
SR3 B262 BD
10DI+6AI+10T
+15ER1/151.j.1

Purification
1 = Open
Q4
PNP source

-151A1
SR3 B262 BD
10DI+6AI+10T
+15ER1/151.j.1

Max. level
1 = over Maximum
I5
DI - 24V DC

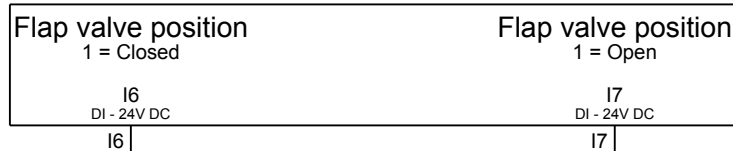


Purification

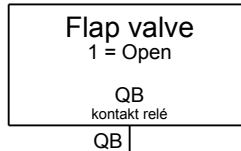
Purification

Max. level

-151A1
SR3 B262 BD
10DI+6AI+10T
+15ER1/151.j.1



-151A2
SR3 XT141 BD
8DI+6Re
+15ER1/151.j.6



Signal levels are proven.

SW can be written beforehand.

It is sufficient to connect prescribed wires to prescribed terminals.

In case of problems it is immediately clear, where a mistake has occurred and who made it.

+15ER1
-151X3 PE + -
ZIA4

18

ZIA4 PE + -
19

ZIA4 20 + -
PE

M25

-13W6
JZ-500
0,75
25 m

4

5

1

2

3

PE

2 m
0,75
H05VV-F-G
-13W7

BN

BU

PE

-6S
EBRO NSK
10-60V-200mA
/13.a.4

1

3

5

2

4

6

7

7

8

8

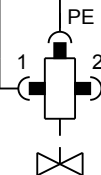
PE

PE

prepne ak je klapka ZATV.

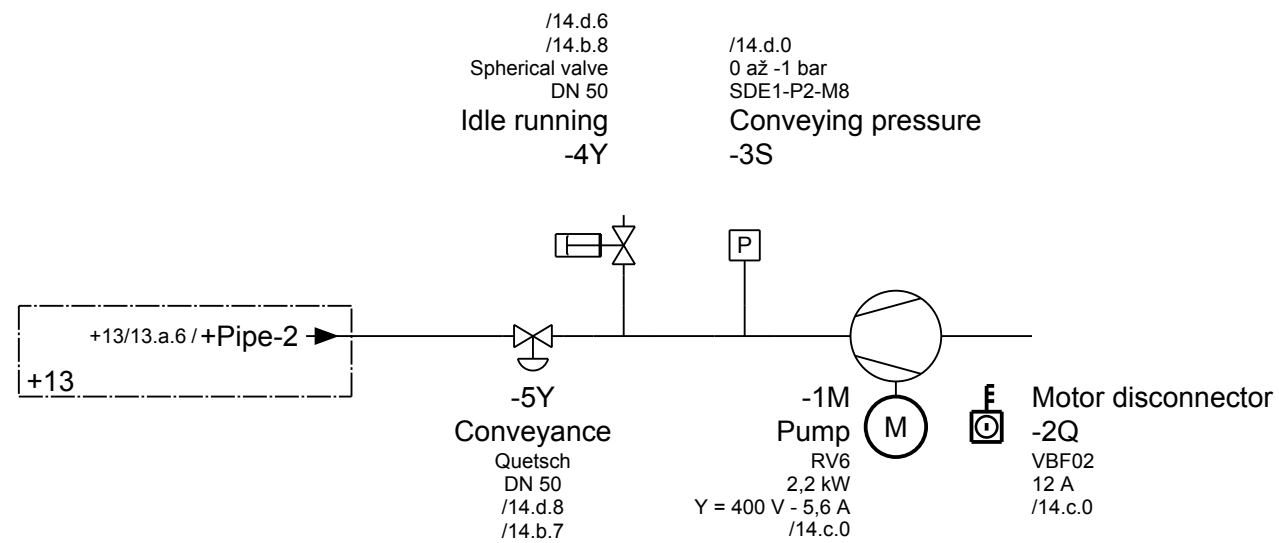
prepne ak je klapka OTV.

-5Y1
EBRO
1,6 W
/13.b.5



Flap valve position

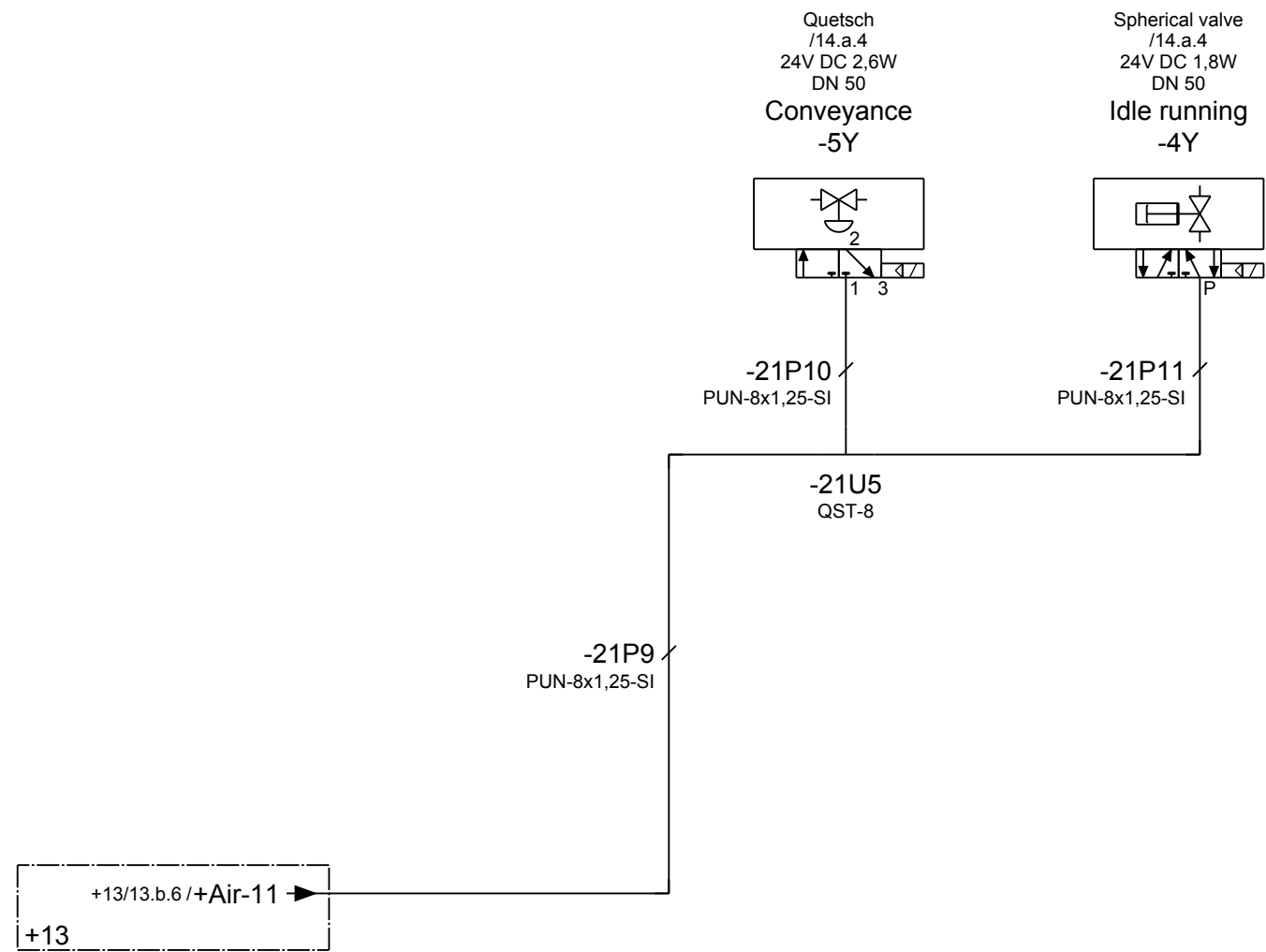
Group 14.



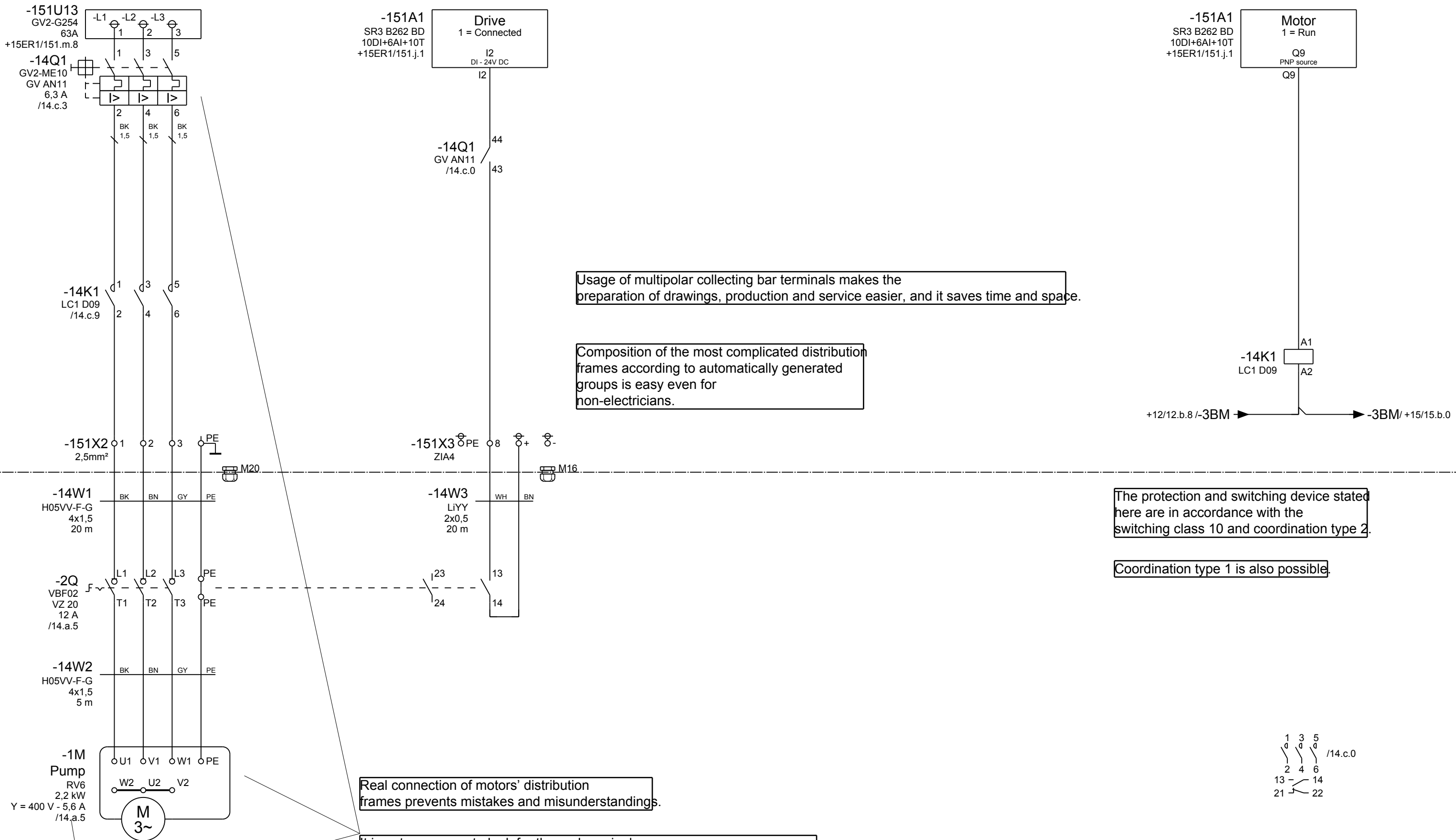
Group 14.

+14
+PROCESS/1.2

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Usage of multipolar collecting bar terminals makes the preparation of drawings, production and service easier, and it saves time and space.

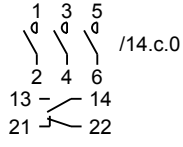
Composition of the most complicated distribution frames according to automatically generated groups is easy even for non-electricians.

The protection and switching device stated here are in accordance with the switching class 10 and coordination type 2.

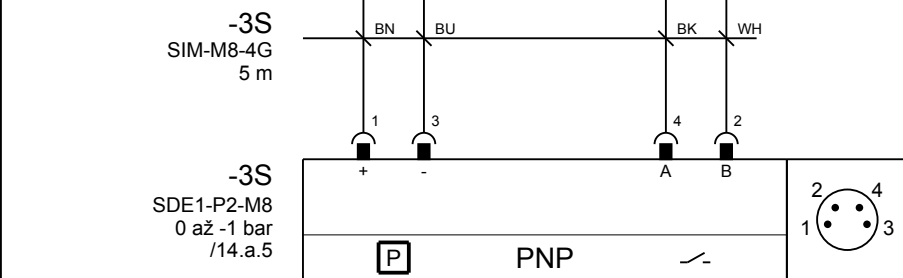
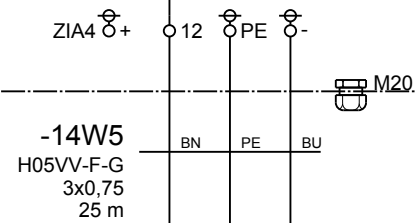
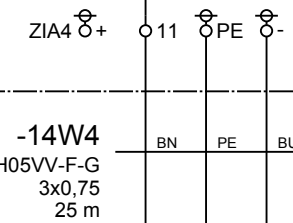
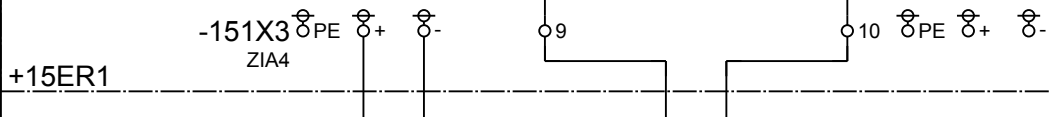
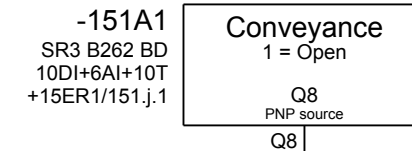
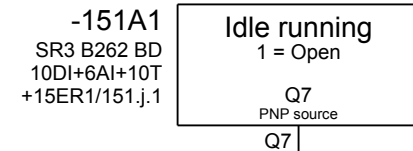
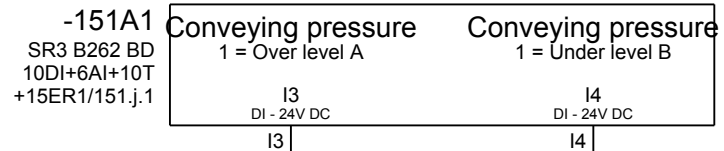
Coordination type 1 is also possible.

Real connection of motors' distribution frames prevents mistakes and misunderstandings.

It is not necessary to look for the real nominal current of the motor for a given connection on the label, and protection can be set already during the production of the distributor.

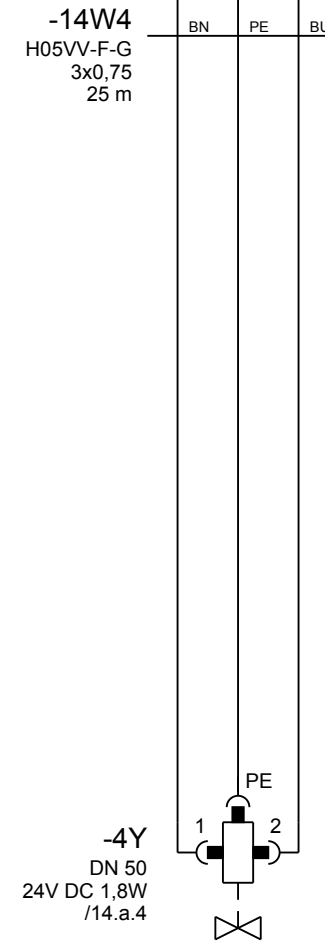


Motor

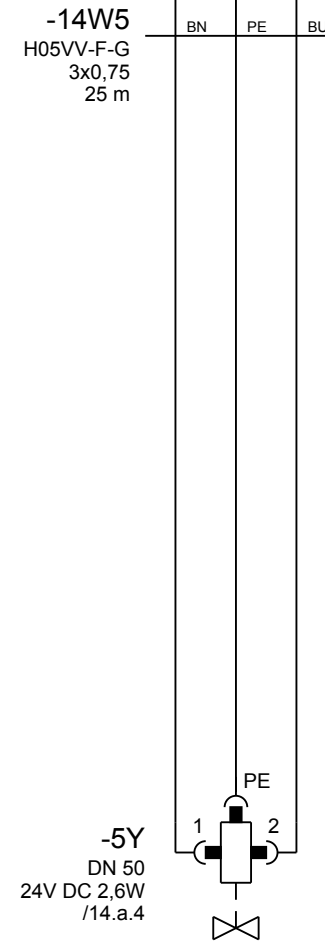


Conveying pressure

Sensor symbol represents the following:
 P – pressure sensor
 PNP – connection of outlet
 NO – function of number output, position and function of individual connector pins, type of purchased connector with cable length and wire colours




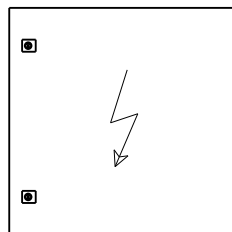
Idle running



Conveyance


Group 15.

Signal lamp
 +15E3
 XVBC21
 24 V
 /15.c.0

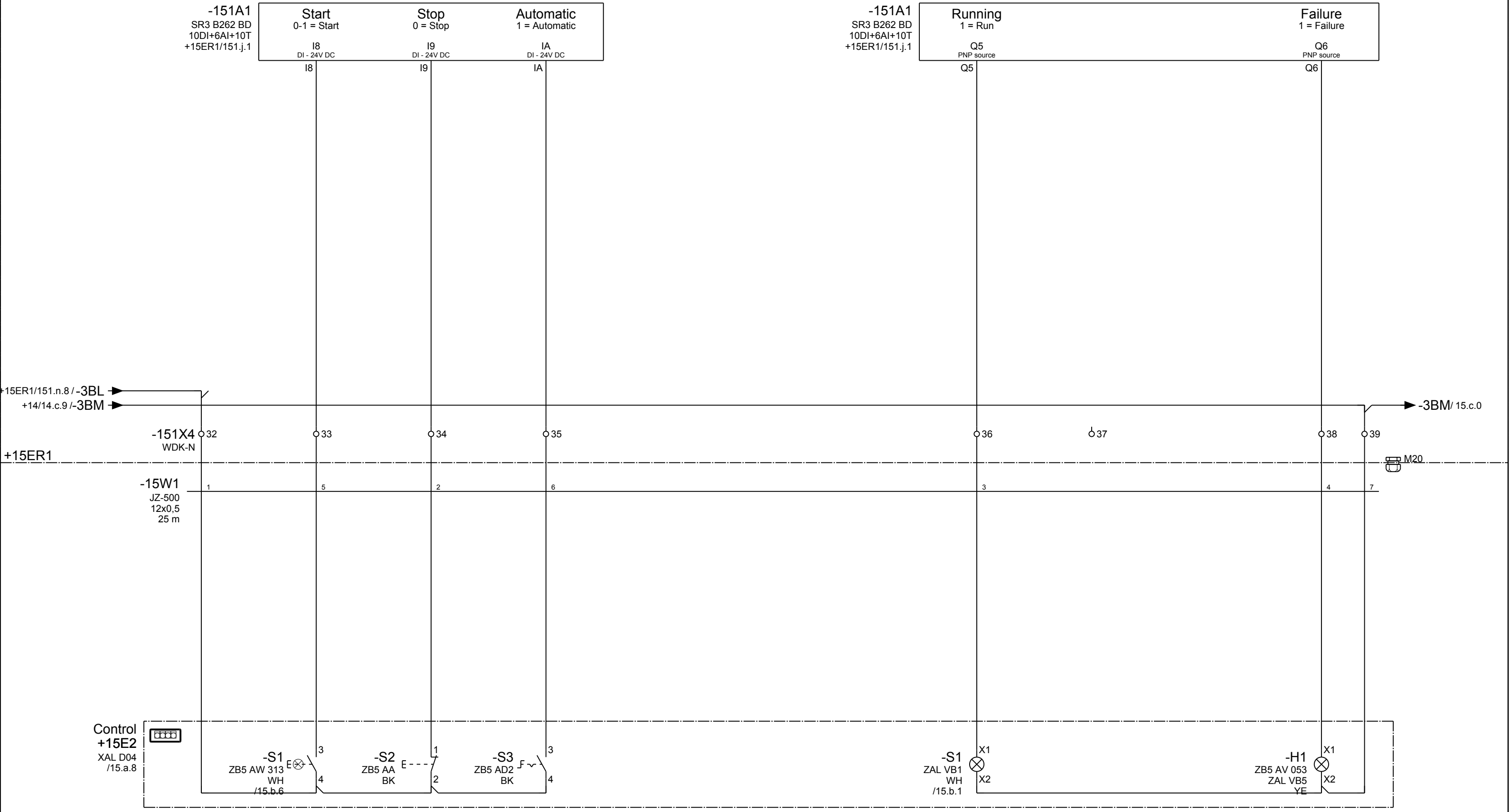
Enclosure
 +15ER1
 AE 1060
 600x600x210
 ?
 400 V - 50 Hz
 24 V DC
 25 A
 9003
 2011
 IP54/20
 OCEP-P
 ?

STOP
 +15E1 
 XAL K01
 +15ER1/151.p.0

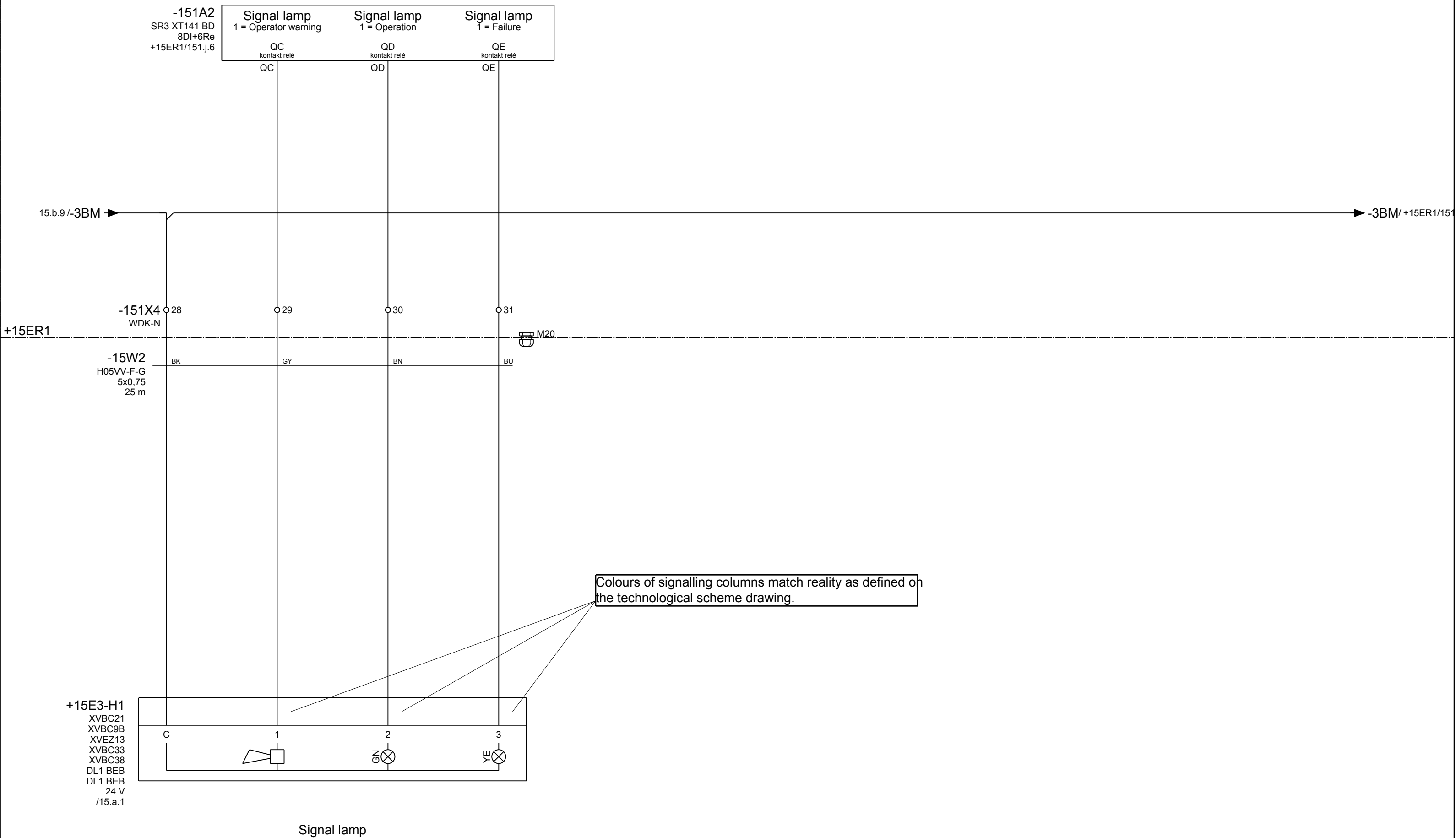
Control
 +15E2 
 XAL D04
 /15.b.0

Group 15.

+15
 +PROCESS/1.3

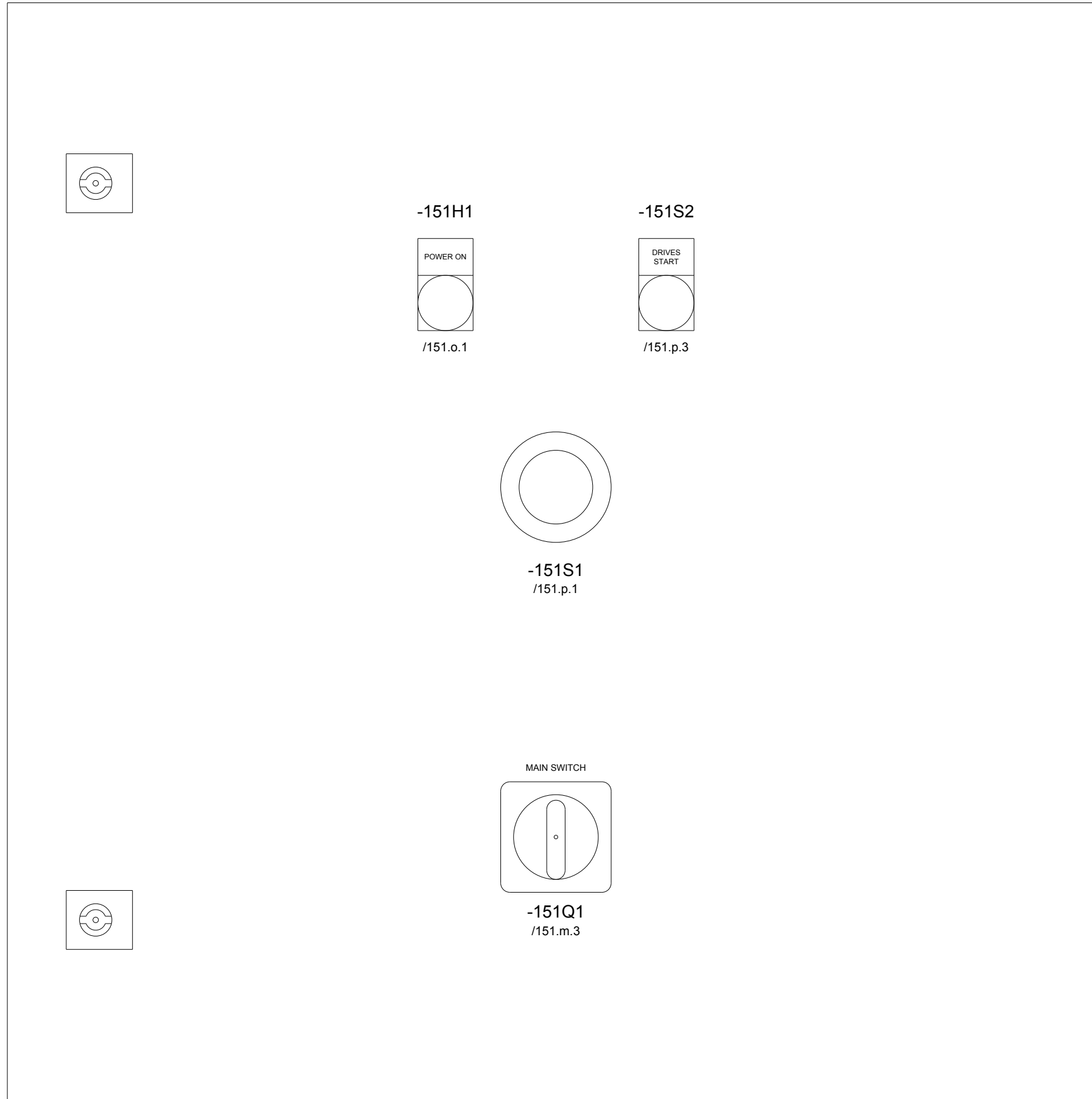


Start Stop Automatic Running Failure

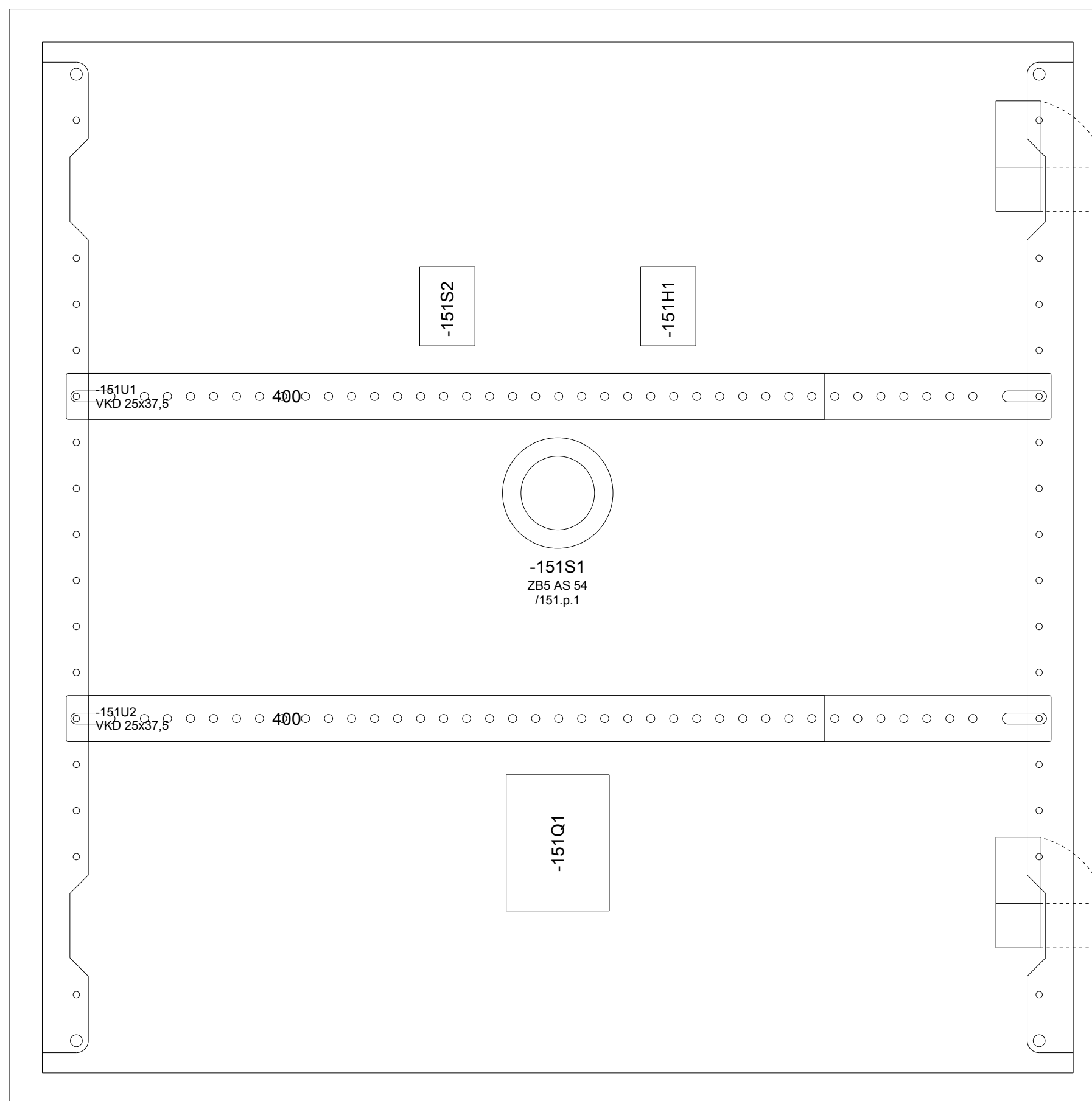


Electrotechnical drawings.

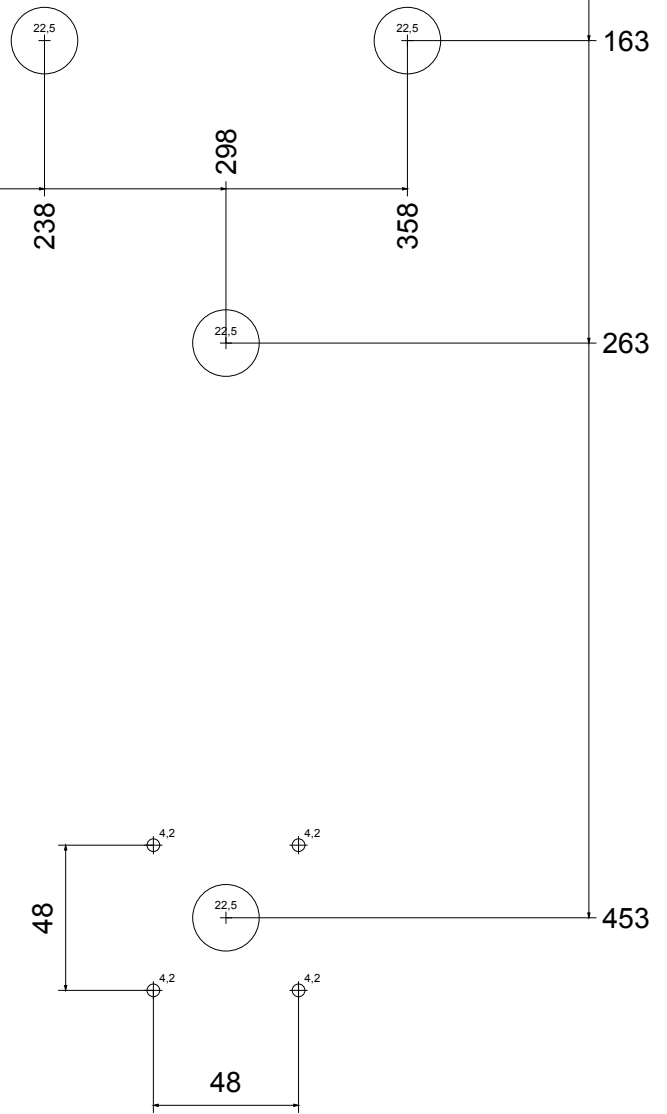
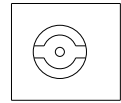
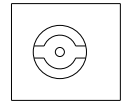
=PND+15ER1-151M1



=PND+15ER1-151M2



=PND+15ER1-151M3

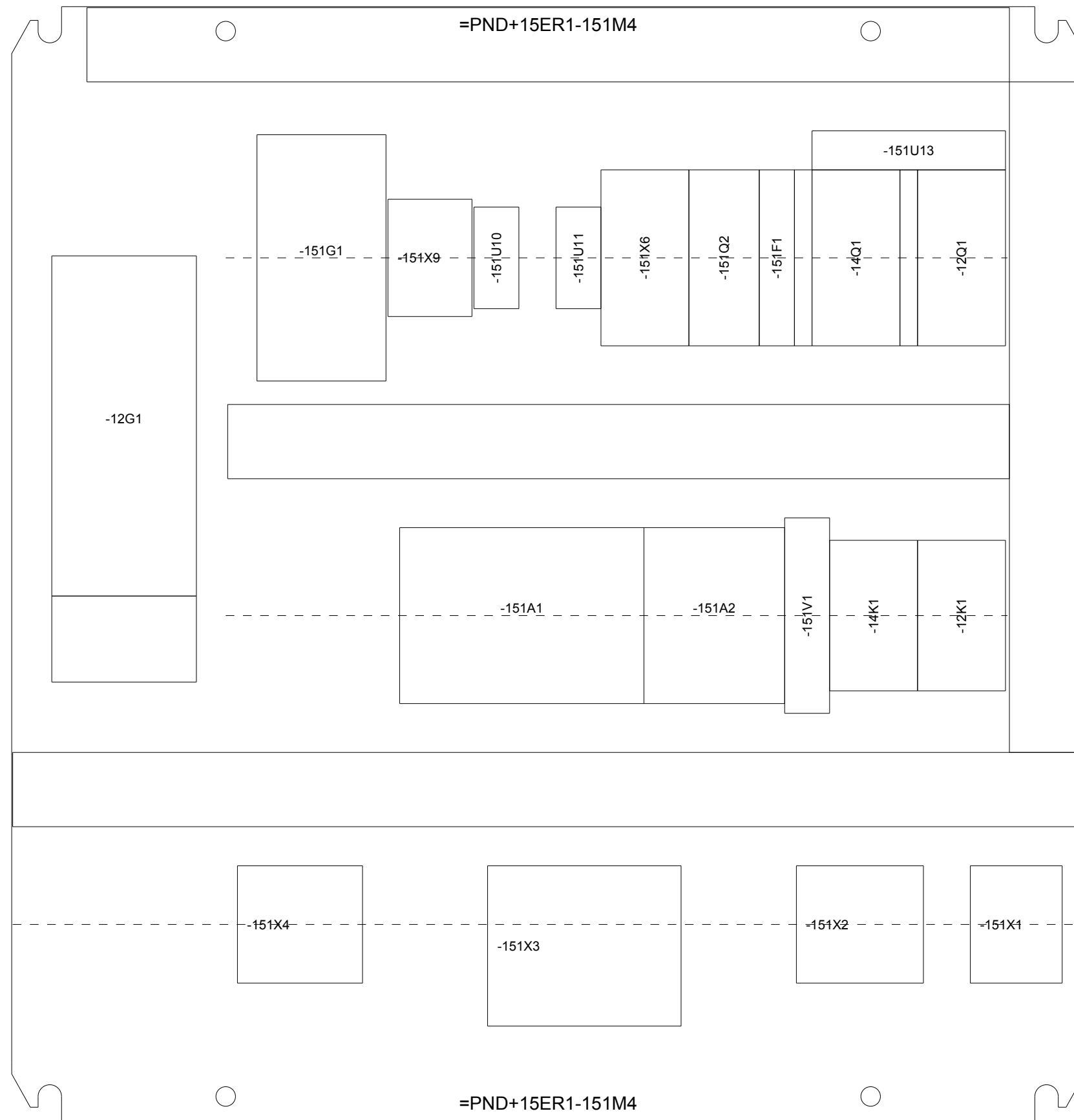


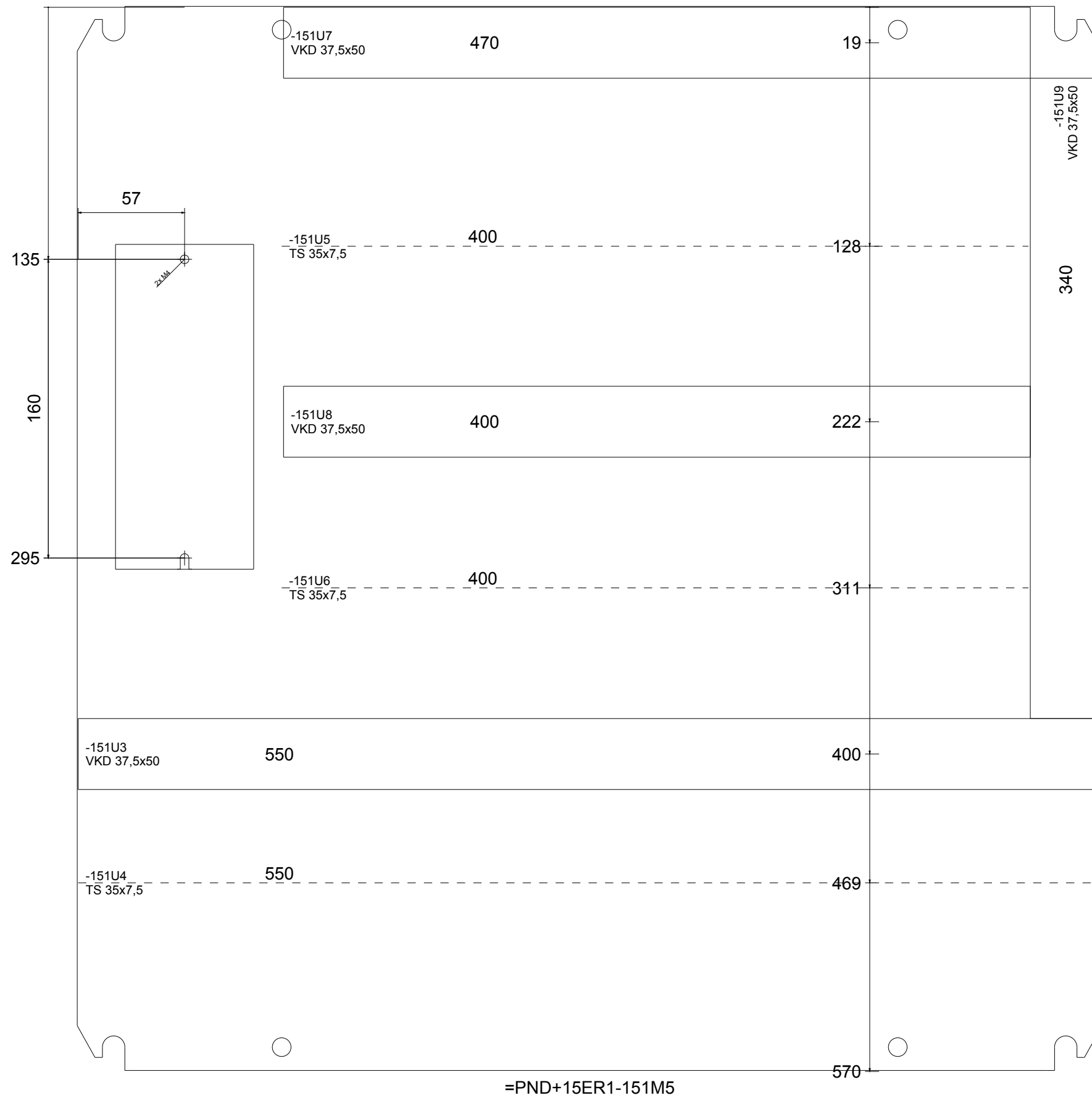
In our documentation we also guarantee dimensioning of openings for devices which are mounted on several levels.

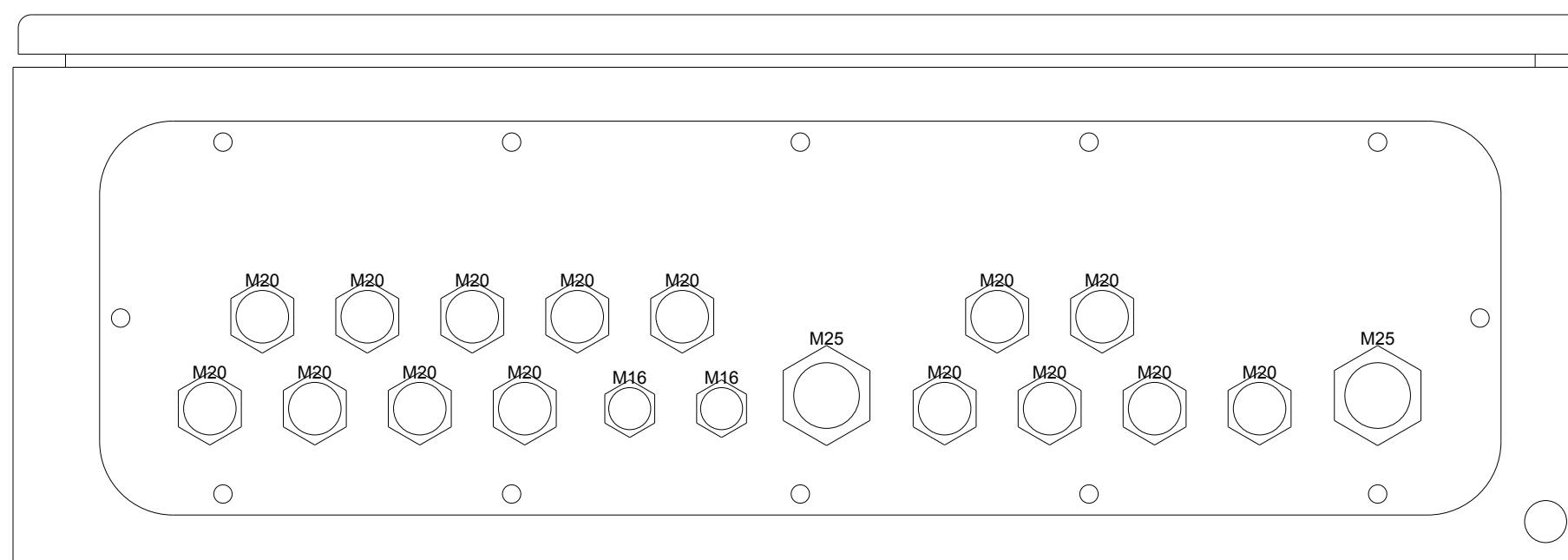
E.g. machines mounted on the mounting plate with their control part mounted on the front door.

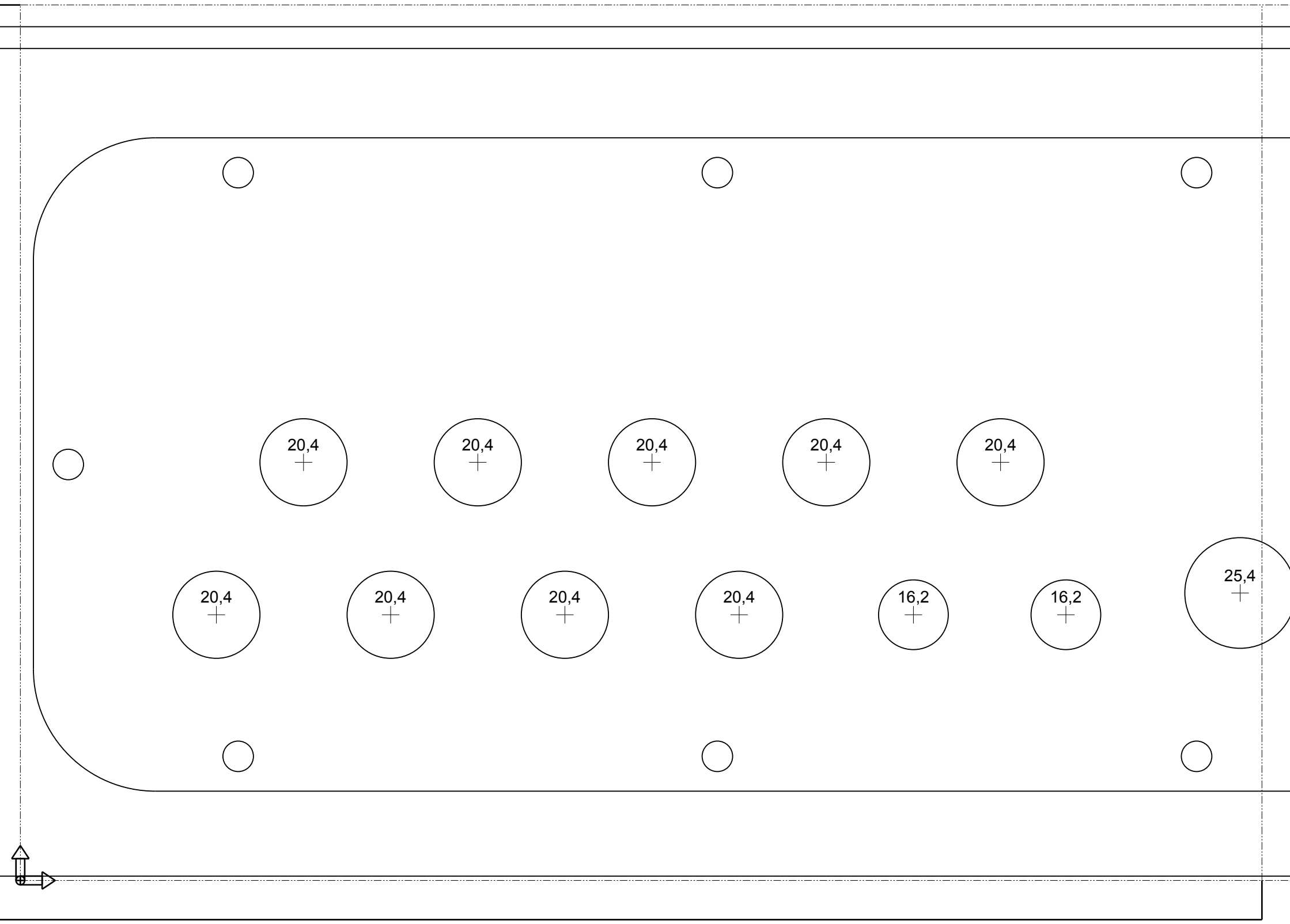
This way all mechanical operations can be performed at once.

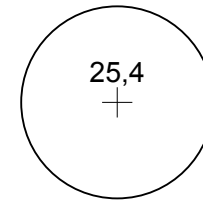
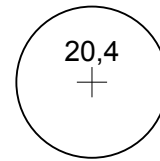
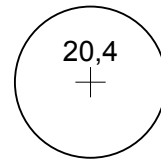
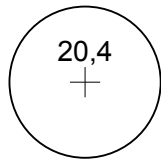
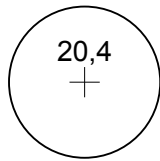
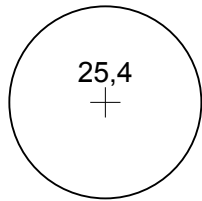
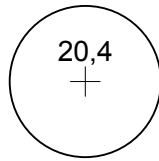
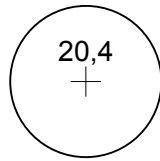
This saves time and guarantees that during drilling on the "almost" finished distributor no metal splinters can get into the electrical devices.



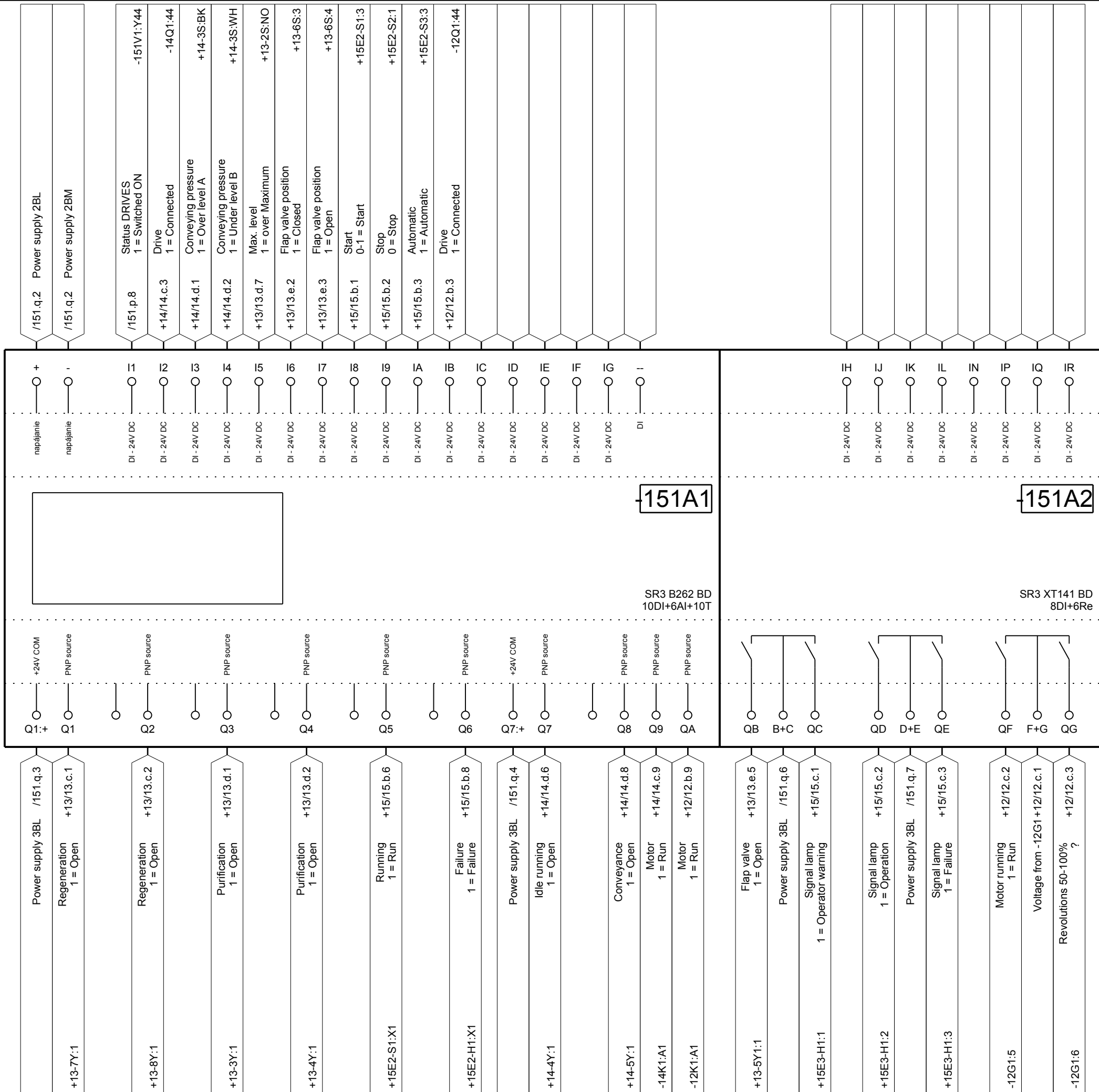








Signal levels are prover.
 SW can be written beforehand.



151.h

151.k

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Pneumatic conveying. 9003.
Koncový zákazník

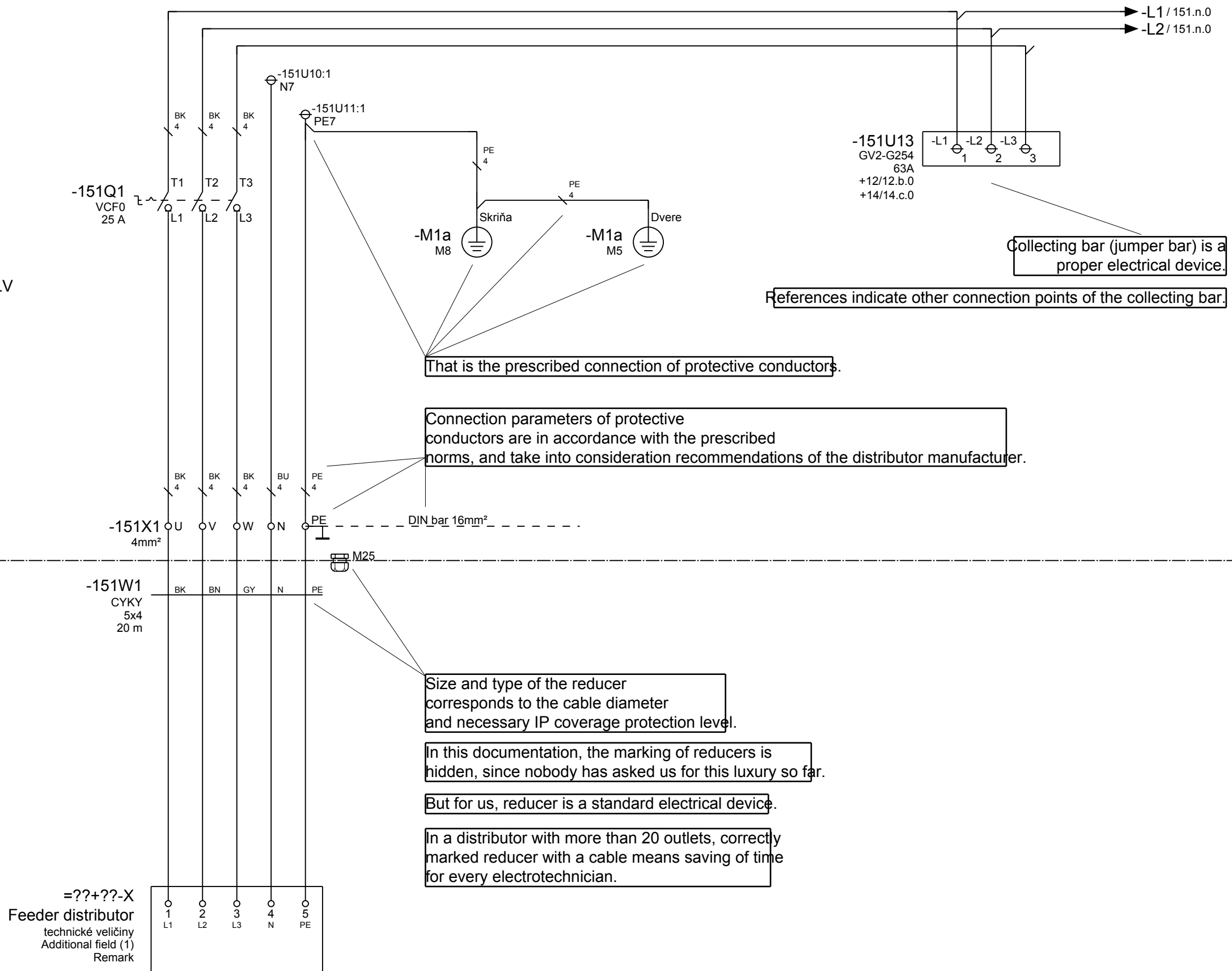
Zelio Overview.
Overview

Creator V00 01.06.2010 Ing. Tisovčík Ivan
 Last revision of project
 Last revision of page
 M = 1 : 1,00 28.06.2011 WUP0U34409

= PND
 + 15ER1
 151.j

- 151X1= Distribution frame 230/400V - Supply
- 151X2= Distribution frame 230/400V - Outlets
- 151X3= Distribution frame 24V DC - PELV (WDU)
- 151X4= Distribution frame 24V DC - PELV (WDK-N)

-151X9= Distribution frame for fuse and distribution 24V DC - PELV



Collecting bar (jumper bar) is a proper electrical device.

References indicate other connection points of the collecting bar.

That is the prescribed connection of protective conductors.

Connection parameters of protective conductors are in accordance with the prescribed norms, and take into consideration recommendations of the distributor manufacturer.

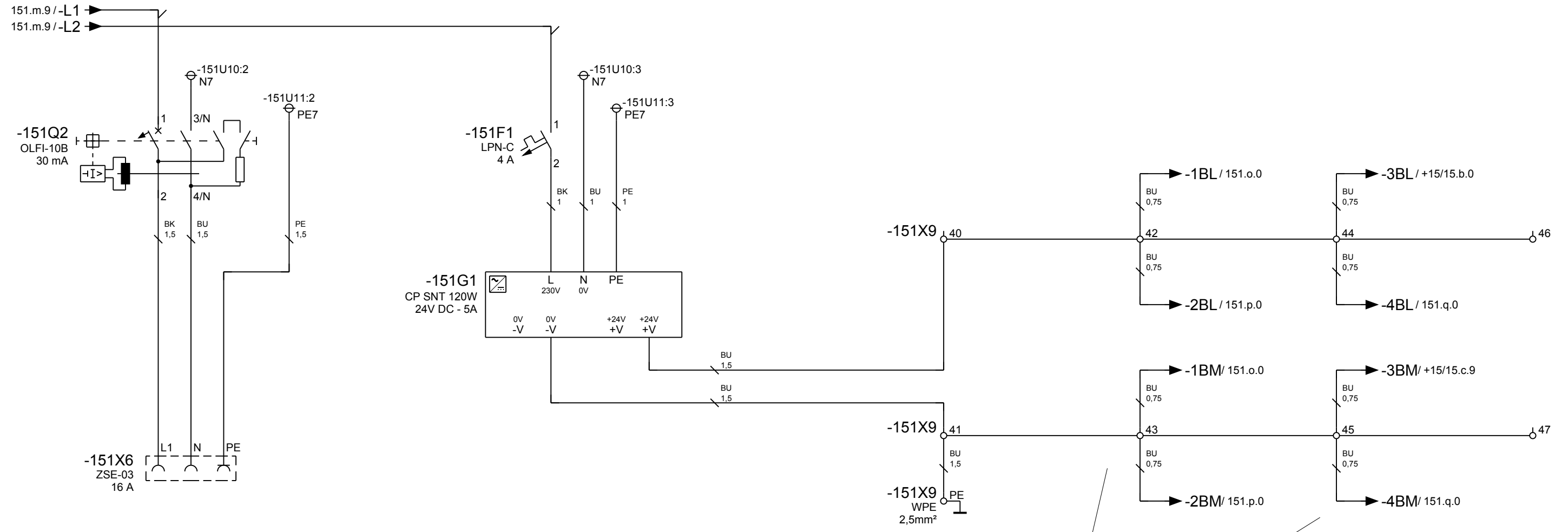
Size and type of the reducer corresponds to the cable diameter and necessary IP coverage protection level.

In this documentation, the marking of reducers is hidden, since nobody has asked us for this luxury so far.

But for us, reducer is a standard electrical device.

In a distributor with more than 20 outlets, correctly marked reducer with a cable means saving of time for every electrotechnician.

=??+??-X
Feeder distributor
technické veličiny
Additional field (1)
Remark



Real connection of mutual (power supply) potentials enables clear orientation and prevents overload of conductors.

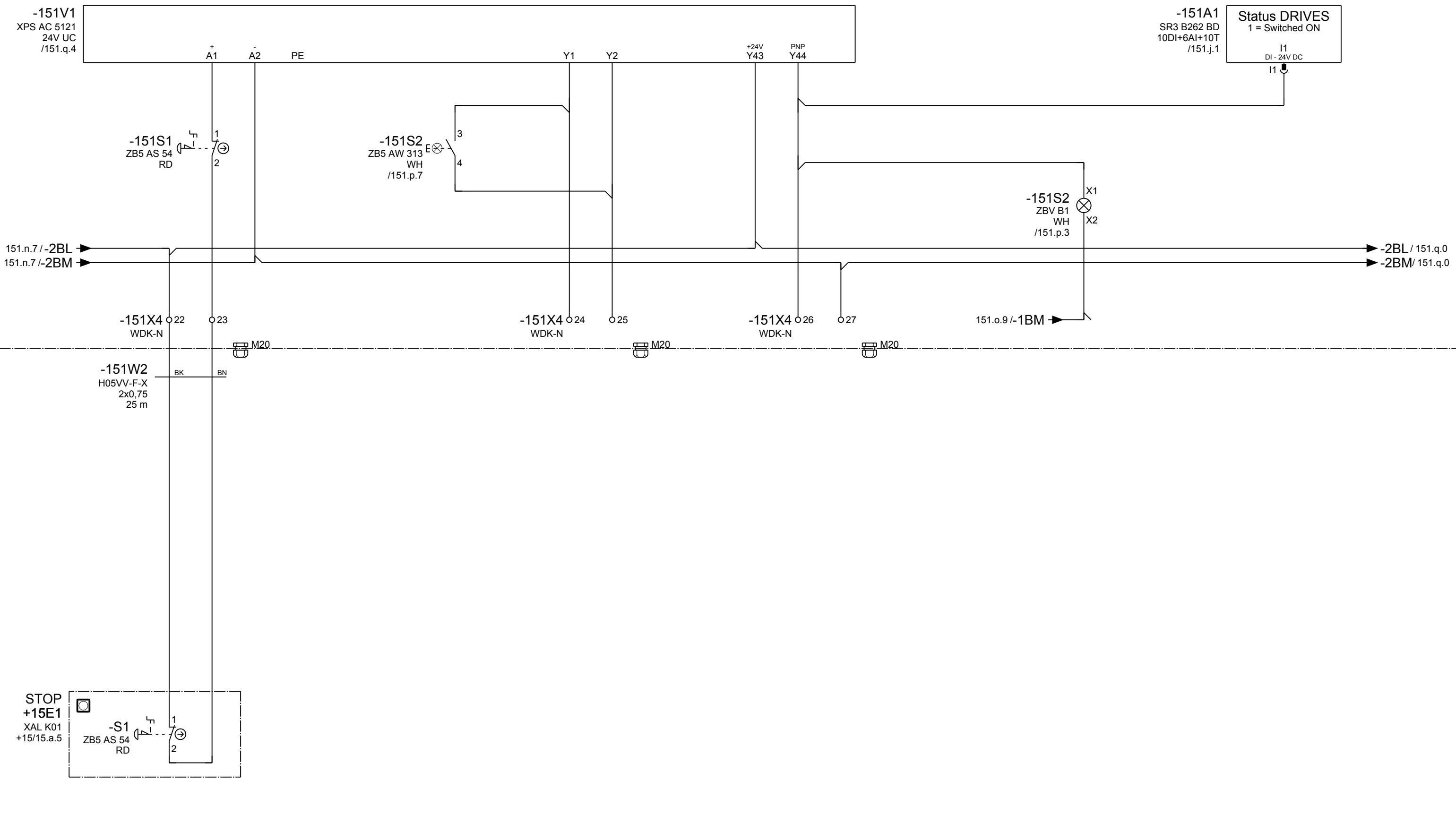
Socket
230V

Source 24V DC

SELV /
PELV switch (bridge, jumper)

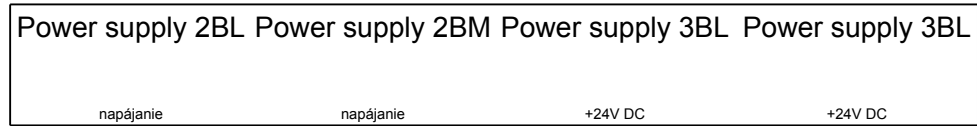


Indicator
SWITCHED ON

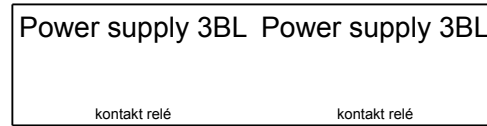


1 – channel circuit DRIVES STOP Press key DRIVES START External press keys DRIVES START External indicators DRIVES Indicator DRIVES Status DRIVES

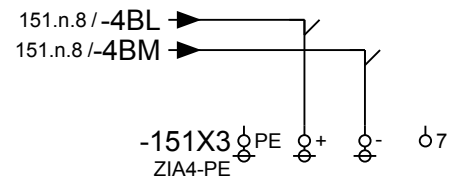
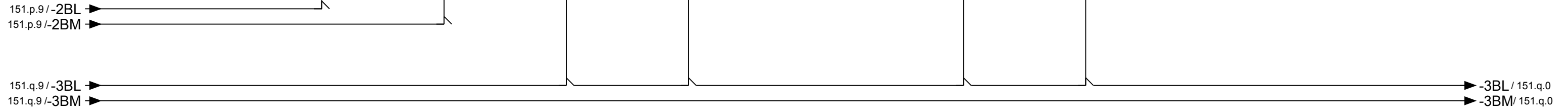
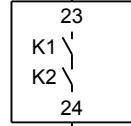
-151A1
SR3 B262 BD
10DI+6AI+10T
/151.j.1



-151A2
SR3 XT141 BD
8DI+6Re
/151.j.6



-151V1
XPS AC 5121
24V UC
/151.p.0



Power supply 151X3

Power supply 2BL

Power supply 2BM

Power supply 3BL

Power supply 3BL

Power supply 3BL

Power supply 3BL

Documentation for pricing.

=PND+15ER1/151.q

1

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Pneumatic conveying. 9003.
Koncový zákazník

Creator	V00	01.06.2010	Ing. Tisovčík Ivan
Last revision of project			
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M = 1 : 1,00		27.06.2011	WUP0U34409

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Price of devices. Purchase.

TIE_F02_Cen_Prs_ALL_V01

Name. Designation.	Order number. Type.	Quantity.	Unit price.	Price.
Motor overload switch	GV2-ME10	1 ks	25,00	25,00
Motor overload switch	GV2-ME14	1 ks	25,18	25,18
block of contacts	GV AN11	3 ks	4,62	13,86
Bus bar – jumper bar	GV2-G254	1 ks	3,62	3,62
contactor	LC1 D09 BD	2 ks	31,90	63,80
power disconnecter	VARIO VCF0	1 ks	13,12	13,12
power disconnecter	VARIO VBF02	2 ks	0,00	0,00
block of auxiliary contacts	VZ 20	2 ks	8,20	16,40
PE module	VZ 14	1 ks	10,40	10,40
label 8x27	ZBZ 32	4 ks	0,30	1,20
label 18x27	ZBZ 33	2 ks	0,32	0,64
label EMERGENCY STOP	ZBY 9330	1 ks	1,25	1,25
connector	ZB5 AZ009	3 ks	0,81	2,43
switching unit NO	ZBE 101	1 ks	1,59	1,59
switching unit NC	ZBE 102	1 ks	1,59	1,59
switching unit NO	ZEN L1111	2 ks	2,22	4,44
switching unit NC	ZEN L1121	2 ks	2,22	4,44
LED 24V - white	ZBV B1	2 ks	3,84	7,68
LED 24V - white	ZAL VB1	1 ks	4,80	4,80
LED 24V - yellow	ZAL VB5	1 ks	4,80	4,80
red pin 40mm	ZB5 AS 54	2 ks	5,72	11,44
white indicator for LED	ZB5 AV 013	1 ks	2,35	2,35
yellow indicator for LED	ZB5 AV 053	1 ks	2,35	2,35
white backlit press key for LED	ZB5 AW 313	2 ks	4,43	8,86
press key without a button	ZB5 AA0	1 ks	2,70	2,70
black button	ZBA 2	1 ks	0,80	0,80
rotary switch	ZB5 AD2	1 ks	0,00	0,00
empty box for EMERGENCY-OFF head	XAL K01	1 ks	7,21	7,21
empty box for 4 heads	XAL D04	1 ks	0,00	0,00
Zelio	SR3 B262 BD	1 ks	150,65	150,65

Price of devices. Purchase.

TIE_F02_Cen_Prs_ALL_V01

Name. Designation.	Order number. Type.	Quantity.	Unit price.	Price.
Extension module Zelio	SR3 XT 141 BD	1 ks	82,91	82,91
stand - column 60mm	XVEZ13	1 ks	0,00	0,00
clamp ring + covering	XVBC21	1 ks	0,00	0,00
lamp green	XVBC33	1 ks	0,00	0,00
yellow lamp	XVBC38	1 ks	0,00	0,00
buzzer 90dB	XVBC9B	1 ks	79,60	79,60
bulb - 24V 7W	DL1 BEB - 24V 7W	2 ks	0,00	0,00
safety module	XPS AC 5121	1 ks	0,00	0,00
stabilised switching power supply	870 867 0000 - CP SNT 120W	1 ks	65,71	65,71
rail-mounted terminal - 2,5 mm ²	102 000 0000 - WDU 2,5	6 ks	0,42	2,52
rail-mounted terminal - 4 mm ²	102 010 0000 - WDU 4	3 ks	0,66	1,98
rail-mounted terminal - 4 mm ²	102 018 0000 - WDU 4 BL	1 ks	0,76	0,76
protective rail-mounted terminal PE - 2,5 mm ²	101 000 0000 - WPE 2.5	4 ks	1,68	6,72
protective rail-mounted terminal PE - 4 mm ²	101 010 0000 - WPE 4	1 ks	2,39	2,39
basic module ZIA 1,5/4L-1S	165 201 0000 - ZIA 1,5/4L-1S	14 ks	0,86	12,04
basic module ZIA 1,5/4L-PE	165 203 0000 - ZIA 1,5/4L-PE	1 ks	4,77	4,77
blue terminal ZVL 1,5 BL	165 036 0000 - ZVL 1,5 BL	15 ks	0,47	7,05
brown terminal ZVL 1,5 BR	165 037 0000 - ZVL 1,5 BR	15 ks	0,47	7,05
green / yellow terminal. ZVL 1,5 PE	165 197 0000 - ZVL 1,5 PE	15 ks	0,47	7,05
double level terminal WDK 2,5N	104 160 0000 - WDK 2,5N	9 ks	1,59	14,31
double level terminal WDK 2,5 ZQV	104 110 0000 - WDK 2,5 ZQV	4 ks	1,52	6,08
low changer 4P	171 792 0000 - ZQV 2,5N/4 RT	1 ks	0,80	0,80
low changer 4P	171 801 0000 - ZQV 2,5N/4 BL	1 ks	0,80	0,80
end clamp WEW 35/2	106 120 0000 - WEW 35/2	8 ks	1,03	8,24
small end clamp EW 35	038 356 0000 - EW 35	2 ks	0,37	0,74
yellow covering with a lightning symbol	105 346 0000 - WAD 5 (YE)	3 ks	0,30	0,90
white covering	105 616 0000 - WAD 8 (WH)	5 ks	0,17	0,85
side board for WDU	105 000 0000 - WAP 2,5-10	1 ks	0,00	0,00
side board for WDK 2,5N	108 400 0000 - WAP WDK 2,5N	1 ks	0,00	0,00
side board for WDK 2,5	105 910 0000 - WAP WDK 2,5	1 ks	0,70	0,70

1

3

Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A - 821 08 - BRATISLAVA - SK +421 905 609221 tisovcik.ivan@orangemail.sk IČO 14011956 - IČ DPH SK1020182207	Pneumatic conveying. 9003. Koncový zákazník	Price of devices	Creator V00 01.06.2010 Ing. Tisovčík Ivan	= 0000
			Last revision of project	
			Last revision of page	
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Price of devices. Purchase.

TIE_F02_Cen_Prs_ALL_V01

Name. Designation.	Order number. Type.	Quantity.	Unit price.	Price.
side board for ZIA 1,5/4L	164 955 0000 - ZAP/TW - ZIA 1,5/4L	1 ks	0,37	0,37
horizontal marking DEK5 "PE"	053 726 1187 - DEK5 "PE"	3 ks	0,03	0,09
horizontal marking DEK5 "SH"	160 980 1044 - DEK5 "SH"	1 ks	0,03	0,03
horizontal marking DEK5 "U,V,W,N,PE"	055 836 0000 - DEK5 "UVWNPE"	5 ks	0,03	0,15
horizontal marking DEK5 "1-50"	047 346 0001 - DEK5 "1-50"	50 ks	0,03	1,50
circuit breaker LPN-4C-1	33889 LPN-4C-1	1 ks	6,68	6,68
residual current circuit breaker	OLFI-10B-N1-030AC (36 846)	1 ks	57,00	57,00
isolated bridge N7 blue	11121 - mostík izolovaný N7	1 ks	0,83	0,83
isolated bridge PE7 green	11124 - mostík izolovaný PE7	1 ks	0,83	0,83
socket for DIN bar	37290 ZSE-03	1 ks	6,80	6,80
shielding holder for converter B	6SE6 400-0GP00-0BA0	1 ks	0,00	0,00
comfortable control module AOP	6SE6 400-0AP00-0AA1	1 ks	109,50	109,50
Converter 1x230V without filter	6SE6 420-2UC13-7AA0	1 ks	0,00	0,00
bushing M16x1,5 B:50	2411.610 - priechodka M16x1,5	4 ks	0,00	0,00
bushing M20x1,5 B:50	2411.620 - priechodka M20x1,5	21 ks	0,00	0,00
bushing M25x1,5 B:25	2411.630 - priechodka M25x1,5	2 ks	0,00	0,00
mounting reinforcement, B:20	SZ 2326.000	2 ks	0,00	0,00
distribution cabinet, B:1	AE 1060.500	1 ks	96,85	96,85
pump 3x400V	RV6 - 2,2 kW	1 ks	0,00	0,00
pressure sensor	SDE1-V1-G2-H18-L-P2-M8 (529974)	1 ks	0,00	0,00
socket with cable	SIM-M8-4GD-5-PU (158961)	1 ks	0,00	0,00
silver hose	152 587 - PUN 8x1,25-SI	55 m	0,00	0,00
silver hose	152 589 - PUN 12x2-SI	22 m	0,00	0,00
silver hose	152 590 - PUN 16x2,5-SI	20 m	0,00	0,00
connecting tee joint	153 130 - QST-8	2 ks	0,00	0,00
connecting tee joint	130 615 - QST-12-8	1 ks	0,00	0,00
connecting tee joint	153 132 - QST-12	1 ks	0,00	0,00
connecting tee joint	130 616 - QST-16-12	1 ks	0,00	0,00
big washer	M4 podložka veľká - DIN 9021	36 ks	0,01	0,36
serrated lock washer	M4 podložka vejárová - DIN 6798	4 ks	0,01	0,04

Price of devices. Purchase.

TIE_F02_Cen_Prs_ALL_V01

Name. Designation.	Order number. Type.	Quantity.	Unit price.	Price.
big washer	M5 podložka veľká - DIN 9021	10 ks	0,02	0,20
self-drilling screw TEX	skrutka samovývrtná TEXS 4,2x16 - DIN 7504-N SQ	36 ks	0,00	0,00
screw for metal plates	skrutka do plechu 4,8x9,5 - DIN 7981C Zn	4 ks	0,00	0,00
screw for metal plates	skrutka do plechu 5,5x13 - DIN 7981C Zn	10 ks	0,00	0,00
motor 3x400V	0,37 kW	1 ks	0,00	0,00
electromagnetic valve	SCE 238A002, 24V DC 6,9W	2 ks	0,00	0,00
electromagnetic valve	2VE DA G1/2" - 24V DC 12W	2 ks	0,00	0,00
electromagnetic valve	EBRO - 24V DC 1,6W	1 ks	0,00	0,00
wing sensor	Silomax P - Ex II 1/3D	1 ks	0,00	0,00
flap valve EBRO	klapka EBRO	1 ks	0,00	0,00
flap valve EBRO	klapka EBRO	1 ks	0,00	0,00
perforated tray PVC	VKD š/v 25x37,5	800 mm	0,01	8,00
perforated tray PVC	VKD š/v 37,5x50 - NP 48207	1760 mm	0,01	17,60
perforated DIN bar	051 450 0000 - TS 35x7,5	1350 mm	0,01	13,50

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Pneumatic conveying. 9003.
Koncový zákazník

Price of devices

Creator	V00	01.06.2010	Ing. Tisovčík Ivan
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Documents for purchase.

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Pneumatic conveying. 9003.
Koncový zákazník

Creator	V00	01.06.2010	Ing. Tisovčík Ivan
Last revision of project			
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M = 1 : 1,00		27.06.2011	WUP0U34409

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Ordering of devices.

Supplier. Aplik spol. s r. o.

Senec

tel:

Bratislavská 9

fax:

Slovensko (SK)

e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
Motor overload switch	GV2-ME10	GV2-ME10	1 ks
Motor overload switch	GV2-ME14	GV2-ME14	1 ks
block of contacts	GV AN11	GV AN11	3 ks
Bus bar – jumper bar	GV2-G254	GV2-G254	1 ks
contactor	LC1 D09	LC1 D09 BD	2 ks
power disconnecter	VCF0	VARIO VCF0	1 ks
power disconnecter	VBF02	VARIO VBF02	2 ks
block of auxiliary contacts	VZ 20	VZ 20	2 ks
PE module	VZ 14	VZ 14	1 ks
label 8x27	ZBZ 32	ZBZ 32	4 ks
label 18x27	ZBZ 33	ZBZ 33	2 ks
label EMERGENCY STOP	ZBY 9330	ZBY 9330	1 ks
connector	ZB5 AZ009	ZB5 AZ009	3 ks
switching unit NO	ZBE 101	ZBE 101	1 ks
switching unit NC	ZBE 102	ZBE 102	1 ks
switching unit NO	ZEN L1111	ZEN L1111	2 ks
switching unit NC	ZEN L1121	ZEN L1121	2 ks
LED 24V - white	ZBV B1	ZBV B1	2 ks
LED 24V - white	ZAL VB1	ZAL VB1	1 ks
LED 24V - yellow	ZAL VB5	ZAL VB5	1 ks
red pin 40mm	ZB5 AS 54	ZB5 AS 54	2 ks
white indicator for LED	ZB5 AV 013	ZB5 AV 013	1 ks
yellow indicator for LED	ZB5 AV 053	ZB5 AV 053	1 ks
white backlit press key for LED	ZB5 AW 313	ZB5 AW 313	2 ks
press key without a button	ZB5 AA	ZB5 AA0	1 ks

Ordering of devices.

Supplier. Aplik spol. s r. o.

Senec

tel:

Bratislavská 9

fax:

Slovensko (SK)

e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
black button	ZBA 2	ZBA 2	1 ks
rotary switch	ZB5 AD2	ZB5 AD2	1 ks
empty box for EMERGENCY-OFF head	XAL K01	XAL K01	1 ks
empty box for 4 heads	XAL D04	XAL D04	1 ks
Zelio	SR3 B262 BD	SR3 B262 BD	1 ks
Extension module Zelio	SR3 XT141 BD	SR3 XT 141 BD	1 ks
stand - column 60mm	XVEZ13	XVEZ13	1 ks
clamp ring + covering	XVBC21	XVBC21	1 ks
lamp green	XVBC33	XVBC33	1 ks
yellow lamp	XVBC38	XVBC38	1 ks
buzzer 90dB	XVBC9B	XVBC9B	1 ks
bulb - 24V 7W	DL1 BEB	DL1 BEB - 24V 7W	2 ks
safety module	XPS AC 5121	XPS AC 5121	1 ks

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier. AT-Engineering
 Bratislava
 Wolkrová 17
 Slovensko (SK)

tel: +421 (02) 4911 1511
 fax: +421 (02) 4911 1551
 e-mail: 191

Name. Designation.	Type. Type number.	Order number.	Quantity.
pump 3x400V	RV6	RV6 - 2,2 kW	1 ks
motor 3x400V		0,37 kW	1 ks
electromagnetic valve	SCE 238A002	SCE 238A002, 24V DC 6,9W	2 ks
electromagnetic valve	2VE DA	2VE DA G1/2" - 24V DC 12W	2 ks
electromagnetic valve	EBRO	EBRO - 24V DC 1,6W	1 ks
wing sensor	Silomax P	Silomax P - Ex II 1/3D	1 ks
flap valve EBRO	EBRO	klapka EBRO	1 ks
flap valve EBRO	EBRO NSK	klapka EBRO	1 ks

Ordering of devices.

Supplier. Elektris spol. s r. o.

Bratislava

tel:

Račianska 188

fax:

Slovensko (SK)

e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
stabilised switching power supply	CP SNT 120W	870 867 0000 - CP SNT 120W	1 ks
rail-mounted terminal - 2,5 mm ²	WDU	102 000 0000 - WDU 2,5	6 ks
rail-mounted terminal - 4 mm ²	WDU	102 010 0000 - WDU 4	3 ks
rail-mounted terminal - 4 mm ²	WDU-BL	102 018 0000 - WDU 4 BL	1 ks
protective rail-mounted terminal PE - 2,5 mm ²	WPE	101 000 0000 - WPE 2.5	4 ks
protective rail-mounted terminal PE - 4 mm ²	WPE	101 010 0000 - WPE 4	1 ks
basic module ZIA 1,5/4L-1S	ZIA4	165 201 0000 - ZIA 1,5/4L-1S	14 ks
basic module ZIA 1,5/4L-PE	ZIA4-PE	165 203 0000 - ZIA 1,5/4L-PE	1 ks
blue terminal ZVL 1,5 BL	ZVL-BL	165 036 0000 - ZVL 1,5 BL	15 ks
brown terminal ZVL 1,5 BR	ZVL-BR	165 037 0000 - ZVL 1,5 BR	15 ks
green / yellow terminal. ZVL 1,5 PE	ZVL-PE	165 197 0000 - ZVL 1,5 PE	15 ks
double level terminal WDK 2,5N	WDK-N	104 160 0000 - WDK 2,5N	9 ks
double level terminal WDK 2,5 ZQV	WDK-ZQV	104 110 0000 - WDK 2,5 ZQV	4 ks
low changer 4P	ZQV 2,5N/4	171 792 0000 - ZQV 2,5N/4 RT	1 ks
low changer 4P	ZQV 2,5N/4	171 801 0000 - ZQV 2,5N/4 BL	1 ks
end clamp WEW 35/2	WEW 35/2	106 120 0000 - WEW 35/2	8 ks
small end clamp EW 35	EW 35	038 356 0000 - EW 35	2 ks
yellow covering with a lightning symbol	WAD 5 žltý s bleskom	105 346 0000 - WAD 5 (YE)	3 ks
white covering	WAD 8 biely	105 616 0000 - WAD 8 (WH)	5 ks
side board for WDU	WAP 2,5-10	105 000 0000 - WAP 2,5-10	1 ks
side board for WDK 2,5N	WAP WDK 2,5N	108 400 0000 - WAP WDK 2,5N	1 ks
side board for WDK 2,5	WAP WDK 2,5	105 910 0000 - WAP WDK 2,5	1 ks
side board for ZIA 1,5/4L	ZAP/TW - ZIA 1,5/4L	164 955 0000 - ZAP/TW - ZIA 1,5/4L	1 ks
horizontal marking DEK5 "PE"	DEK5 "PE"	053 726 1187 - DEK5 "PE"	3 ks
horizontal marking DEK5 "SH"	DEK5 "SH"	160 980 1044 - DEK5 "SH"	1 ks

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier. Elektris spol. s r. o.
 Bratislava
 Račianska 188
 Slovensko (SK)

tel:
 fax:
 e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
horizontal marking DEK5 "U,V,W,N,PE"	DEK5 "U,V,W,N,PE"	055 836 0000 - DEK5 "UVWNPE"	5 ks
horizontal marking DEK5 "1-50"	DEK5 "1-50"	047 346 0001 - DEK5 "1-50"	50 ks
perforated DIN bar	TS 35x7,5	051 450 0000 - TS 35x7,5	1350 mm

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier. Festo spol. s r. o.
 Bratislava tel: +421 (02) 4910 4910
 Gavlovičova 781/1 fax: +421 (02) 4910 4911
 Slovensko (SK) e-mail: info_sk@festo.com

Name. Designation.	Type. Type number.	Order number.	Quantity.
pressure sensor	SDE1-P2-M8	SDE1-V1-G2-H18-L-P2-M8 (529974)	1 ks
socket with cable	SIM-M8-4G	SIM-M8-4GD-5-PU (158961)	1 ks
silver hose	PUN-8x1,25-SI	152 587 - PUN 8x1,25-SI	55 m
silver hose	PUN-12x2-SI	152 589 - PUN 12x2-SI	22 m
silver hose	PUN-16x2,5-SI	152 590 - PUN 16x2,5-SI	20 m
connecting tee joint	QST-8	153 130 - QST-8	2 ks
connecting tee joint	QST-12-8	130 615 - QST-12-8	1 ks
connecting tee joint	QST-12	153 132 - QST-12	1 ks
connecting tee joint	QST-16-12	130 616 - QST-16-12	1 ks

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier. i-center spol. s r. o.
 Bratislava 3 tel: +421 (02) 4910 1633
 Tuhovská ul. 27 fax: +421 (02) 4910 1637
 Slovensko (SK) e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
circuit breaker LPN-4C-1	LPN-C	33889 LPN-4C-1	1 ks
residual current circuit breaker	OLFI-10B	OLFI-10B-N1-030AC (36 846)	1 ks
isolated bridge N7 blue	N7	11121 - mostík izolovaný N7	1 ks
isolated bridge PE7 green	PE7	11124 - mostík izolovaný PE7	1 ks
socket for DIN bar	ZSE-03	37290 ZSE-03	1 ks
perforated tray PVC	VKD 25x37,5	VKD š/v 25x37,5	800 mm
perforated tray PVC	VKD 37,5x50	VKD š/v 37,5x50 - NP 48207	1760 mm

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier.
tel:
fax:
e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
big washer	M4 - DIN 9021	M4 podložka veľká - DIN 9021	36 ks
serrated lock washer	M4 - DIN 6798	M4 podložka vejárová - DIN 6798	4 ks
big washer	M5 - DIN 9021	M5 podložka veľká - DIN 9021	10 ks
self-drilling screw TEX	4,2x16 - DIN 7504-N	skrutka samovývrtná TEXS 4,2x16 - DIN 7504-N SQ	36 ks
screw for metal plates	4,8x9,5 - DIN 7981C	skrutka do plechu 4,8x9,5 - DIN 7981C Zn	4 ks
screw for metal plates	5,5x13 - DIN 7981C	skrutka do plechu 5,5x13 - DIN 7981C Zn	10 ks

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier. Rittal spol. s r. o.
 Bratislava tel: +421 2 5363 0651
 Plynárska 1 fax: +421 2 5363 0951
 Slovensko (SK) e-mail: rittal@rittal.sk

Name. Designation.	Type. Type number.	Order number.	Quantity.
bushing M16x1,5 B:50	M16	2411.610 - priechodka M16x1,5	4 ks
bushing M20x1,5 B:50	M20	2411.620 - priechodka M20x1,5	21 ks
bushing M25x1,5 B:25	M25	2411.630 - priechodka M25x1,5	2 ks
mounting reinforcement, B:20	2326.000	SZ 2326.000	2 ks
distribution cabinet, B:1	AE 1060	AE 1060.500	1 ks

TIE_F02_Obj_Prs_ALL_V01

Ordering of devices.

Supplier. Siemens s.r.o
 Bratislava tel:
 Stromová 9 fax:
 Slovensko (SK) e-mail:

Name. Designation.	Type. Type number.	Order number.	Quantity.
shielding holder for converter B	Schirm B	6SE6 400-0GP00-0BA0	1 ks
comfortable control module AOP	Panel AOP	6SE6 400-0AP00-0AA1	1 ks
Converter 1x230V without filter	MM 420	6SE6 420-2UC13-7AA0	1 ks

+Sklad/0

Documentation for storage

Issue card for devices.

TIE_F02_Vyd_Prs_ALL_V01

Name. Designation.	Type. Type number.	Part number.	Quantity.	Remark.
Motor overload switch	GV2-ME10	100 0000 010 - GV2-ME10	1 ks	
Motor overload switch	GV2-ME14	100 0000 014 - GV2-ME14	1 ks	
block of contacts	GV AN11	100 0001 011 - GV AN11	3 ks	
Bus bar – jumper bar	GV2-G254	100 0002 002 - GV2-G254	1 ks	
contactor	LC1 D09	100 1011 009 - LC1 D09 BD	2 ks	
power disconnecter	VCF0	100 1200 025 - VARIO VCF0	1 ks	
power disconnecter	VBF02	100 1202 012 - VARIO VBF02	2 ks	
block of auxiliary contacts	VZ 20	100 1206 020 - VZ 20	2 ks	
PE module	VZ 14	100 1206 114 - VZ 14	1 ks	
label 8x27	ZBZ 32	100 1300 001 - ZBZ 32	4 ks	
label 18x27	ZBZ 33	100 1300 002 - ZBZ 33	2 ks	
label EMERGENCY STOP	ZBY 9330	100 1300 011 - ZBY 9330	1 ks	
connector	ZB5 AZ009	100 1301 009 - ZB5 AZ009	3 ks	
switching unit NO	ZBE 101	100 1302 001 - ZBE 101	1 ks	
switching unit NC	ZBE 102	100 1302 002 - ZBE 102	1 ks	
switching unit NO	ZEN L1111	100 1302 011 - ZEN L1111	2 ks	
switching unit NC	ZEN L1121	100 1302 012 - ZEN L1121	2 ks	
LED 24V - white	ZBV B1	100 1303 001 - ZBV B1	2 ks	
LED 24V - white	ZAL VB1	100 1305 001 - ZAL VB1	1 ks	
LED 24V - yellow	ZAL VB5	100 1305 005 - ZAL VB5	1 ks	
red pin 40mm	ZB5 AS 54	100 1310 000 - ZB5 AS 54	2 ks	
white indicator for LED	ZB5 AV 013	100 1311 013 - ZB5 AV 013	1 ks	
yellow indicator for LED	ZB5 AV 053	100 1311 053 - ZB5 AV 053	1 ks	
white backlit press key for LED	ZB5 AW 313	100 1312 313 - ZB5 AW 313	2 ks	
press key without a button	ZB5 AA	100 1320 000 - ZB5 AA0	1 ks	
black button	ZBA 2	100 1320 002 - ZBA 2	1 ks	
rotary switch	ZB5 AD2	100 1322 022 - ZB5 AD2	1 ks	
empty box for EMERGENCY-OFF head	XAL K01	100 1340 001 - XAL K01	1 ks	
empty box for 4 heads	XAL D04	100 1340 014 - XAL D04	1 ks	

Issue card for devices.

TIE_F02_Vyd_Prs_ALL_V01

Name. Designation.	Type. Type number.	Part number.	Quantity.	Remark.
Zelio	SR3 B262 BD	100 3100 262 - SR3 B262 BD	1 ks	
Extension module Zelio	SR3 XT141 BD	100 3101 141 - SR3 XT 141 BD	1 ks	
stand - column 60mm	XVEZ13	100 5500 001 - XVEZ13	1 ks	
clamp ring + covering	XVBC21	100 5500 021 - XVBC21	1 ks	
lamp green	XVBC33	100 5500 033 - XVBC33	1 ks	
yellow lamp	XVBC38	100 5500 038 - XVBC38	1 ks	
buzzer 90dB	XVBC9B	100 5500 040 - XVBC9B	1 ks	
bulb - 24V 7W	DL1 BEB	100 5500 101 - DL1 BEB	2 ks	
safety module	XPS AC 5121	100 6401 101 - XPS AC 5121	1 ks	
stabilised switching power supply	CP SNT 120W	110 2100 120 - CP SNT 120W	1 ks	
rail-mounted terminal - 2,5 mm ²	WDU	110 4000 002 - WDU 2,5	6 ks	
rail-mounted terminal - 4 mm ²	WDU	110 4000 004 - WDU 4	3 ks	
rail-mounted terminal - 4 mm ²	WDU-BL	110 4001 004 - WDU 4 BL	1 ks	
protective rail-mounted terminal PE - 2,5 mm ²	WPE	110 4002 002 - WPE 2,5	4 ks	
protective rail-mounted terminal PE - 4 mm ²	WPE	110 4002 004 - WPE 4	1 ks	
basic module ZIA 1,5/4L-1S	ZIA4	110 4010 004 - ZIA 1,5/4L-1S	14 ks	
basic module ZIA 1,5/4L-PE	ZIA4-PE	110 4010 008 - ZIA 1,5/4L-PE	1 ks	
blue terminal ZVL 1,5 BL	ZVL-BL	110 4010 036 - ZVL 1,5 BL	15 ks	
brown terminal ZVL 1,5 BR	ZVL-BR	110 4010 037 - ZVL 1,5 BR	15 ks	
green / yellow terminal. ZVL 1,5 PE	ZVL-PE	110 4010 040 - ZVL 1,5 PE	15 ks	
double level terminal WDK 2,5N	WDK-N	110 4020 001 - WDK 2,5N	9 ks	
double level terminal WDK 2,5 ZQV	WDK-ZQV	110 4021 001 - WDK 2,5V ZQV	4 ks	
low changer 4P	ZQV 2,5N/4	110 4070 124 - ZQV 2,5N/4	1 ks	
low changer 4P	ZQV 2,5N/4	110 4070 224 - ZQV 2,5N/4	1 ks	
end clamp WEW 35/2	WEW 35/2	110 4080 001 - WEW 35/2	8 ks	
small end clamp EW 35	EW 35	110 4080 010 - EW 35	2 ks	
yellow covering with a lightning symbol	WAD 5 žltý s bleskom	110 4081 002 - WAD 5 žltý	3 ks	
white covering	WAD 8 biely	110 4081 021 - WAD 8 biely	5 ks	

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Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A - 821 08 - BRATISLAVA - SK +421 905 609221 tisovcik.ivan@orangemail.sk IČO 14011956 - IČ DPH SK1020182207	Pneumatic conveying. 9003. Koncový zákazník	Issue card for devices	Creator V00 01.06.2010 Ing. Tisovčík Ivan	= 0000
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			Last revision of page	
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Issue card for devices.

TIE_F02_Vyd_Prs_ALL_V01

Name. Designation.	Type. Type number.	Part number.	Quantity.	Remark.
side board for WDU	WAP 2,5-10	110 4082 000 - ku WDU 2,5	1 ks	
side board for WDK 2,5N	WAP WDK 2,5N	110 4082 010 - ku WDK 2,5N	1 ks	
side board for WDK 2,5	WAP WDK 2,5	110 4082 011 - ku WDK 2,5	1 ks	
side board for ZIA 1,5/4L	ZAP/TW - ZIA 1,5/4L	110 4082 110 - ku ZIA 1,5/4L	1 ks	
horizontal marking DEK5 "PE"	DEK5 "PE"	110 4090 001 - DEK5 "PE"	3 ks	
horizontal marking DEK5 "SH"	DEK5 "SH"	110 4090 004 - DEK5 "SH"	1 ks	
horizontal marking DEK5 "U,V,W,N,PE"	DEK5 "U,V,W,N,PE"	110 4090 030 - DEK5 "U,V,W,N,PE"	5 ks	
horizontal marking DEK5 "1-50"	DEK5 "1-50"	110 4091 001 - DEK5 "1-50"	50 ks	
circuit breaker LPN-4C-1	LPN-C	120 0111 110 - LPN-4C-1	1 ks	
residual current circuit breaker	OLFI-10B	120 0311 010 - OLFI-10B	1 ks	
isolated bridge N7 blue	N7	120 4100 007 - Mostík N7	1 ks	
isolated bridge PE7 green	PE7	120 4100 107 - Mostík PE7	1 ks	
socket for DIN bar	ZSE-03	120 4900 010 - ZSE-03	1 ks	
shielding holder for converter B	Schirm B	130 2200 002 - držiak pre tienenie B	1 ks	
comfortable control module AOP	Panel AOP	130 2200 031 - ovládací modul AOP	1 ks	
Converter 1x230V without filter	MM 420	130 2210 003 - 0,37 kW	1 ks	
bushing M16x1,5 B:50	M16	150 7300 016 - priechodka M16	4 ks	
bushing M20x1,5 B:50	M20	150 7300 020 - priechodka M20	21 ks	
bushing M25x1,5 B:25	M25	150 7300 025 - priechodka M25	2 ks	
mounting reinforcement, B:20	2326.000	150 9100 002 - SZ 2326.000	2 ks	
distribution cabinet, B:1	AE 1060	150 9100 620 - AE 1060	1 ks	
pump 3x400V	RV6	191 5001 222 - RV6	1 ks	
pressure sensor	SDE1-P2-M8	250 6601 001 - SDE1-V1-G2-H18-L-P2-M8	1 ks	
socket with cable	SIM-M8-4G	250 6601 071 - SIM-M8-4GD-5-PU	1 ks	

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Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A - 821 08 - BRATISLAVA - SK +421 905 609221 tisovcik.ivan@orangemail.sk IČO 14011956 - IČ DPH SK1020182207	Pneumatic conveying. 9003. Koncový zákazník	Issue card for devices	Creator V00 01.06.2010 Ing. Tisovčík Ivan	= 0000
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Issue card for devices.

TIE_F02_Vyd_Prs_ALL_V01

Name. Designation.	Type. Type number.	Part number.	Quantity.	Remark.
silver hose	PUN-8x1,25-SI	250 7000 401 - PUN-8x1,25-SI	55 m	
silver hose	PUN-12x2-SI	250 7000 601 - PUN-12x2-SI	22 m	
silver hose	PUN-16x2,5-SI	250 7000 701 - PUN-16x2,5-SI	20 m	
connecting tee joint	QST-8	250 7200 414 - QST-8	2 ks	
connecting tee joint	QST-12-8	250 7200 614 - QST-12-8	1 ks	
connecting tee joint	QST-12	250 7200 616 - QST-12	1 ks	
connecting tee joint	QST-16-12	250 7200 716 - QST-16-12	1 ks	
big washer	M4 - DIN 9021	800 9704 801 - DIN 9021	36 ks	
serrated lock washer	M4 - DIN 6798	800 9704 805 - DIN 6798	4 ks	
big washer	M5 - DIN 9021	800 9705 801 - DIN 9021	10 ks	
self-drilling screw TEX	4,2x16 - DIN 7504-N	800 9748 516 - 4,2x16	36 ks	
screw for metal plates	4,8x9,5 - DIN 7981C	800 9750 009 - 4,8x9,5	4 ks	
screw for metal plates	5,5x13 - DIN 7981C	800 9751 013 - 5,5x13	10 ks	
motor 3x400V		900 5000 137 - 0,37 kW	1 ks	
electromagnetic valve	SCE 238A002	900 5410 011 - SCE 238A002	2 ks	
electromagnetic valve	2VE DA	900 5410 201 - 2VE DA G1/2" 12W	2 ks	
electromagnetic valve	EBRO	900 5410 300 - EBRO 1,6W	1 ks	
wing sensor	Silomax P	900 6010 100 - Silomax P	1 ks	
flap valve EBRO	EBRO	900 6010 300 - EBRO	1 ks	
flap valve EBRO	EBRO NSK	900 6010 302 - EBRO NSK	1 ks	
perforated tray PVC	VKD 25x37,5	900 9190 002 - 25x37,5	800 mm	
perforated tray PVC	VKD 37,5x50	900 9190 004 - 37,5x50	1760 mm	
perforated DIN bar	TS 35x7,5	900 9191 035 - TS 35x7,5	1350 mm	

+Stitky/0

Ing. Tisovčík Ivan - Elektromechanik
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 IČO 14011956 - IČ DPH SK1020182207

Pneumatic conveying. 9003.
Koncový zákazník

Issue card for devices

Creator V00 01.06.2010 Ing. Tisovčík Ivan
 Last revision of project
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
+ Sklad

4

Documentation for assembly marking label creation.

=PND+12-1F
=PND+12-2M
=PND+12-3Q
=PND+13-1
=PND+13-2
=PND+13-3
=PND+13-2S
=PND+13-6S
=PND+13-21U1
=PND+13-21U2
=PND+13-21U3
=PND+13-21U4
=PND+13-3Y
=PND+13-4Y
=PND+13-5Y

=PND+13-5Y1
=PND+13-7Y
=PND+13-8Y
=PND+13-21Y1
=PND+14-1M
=PND+14-2Q
=PND+14-3S
=PND+14-21U5
=PND+14-4Y
=PND+14-5Y
=PND+15ER1-1
=PND+15E1-1
=PND+15E2-1
=PND+15E3-H1



+13 -21P4 PUN-16x2,5-SI	+13 -21P3 PUN-8x1,25-SI	+13 -21P2 PUN-12x2-SI	+13 -21P1 PUN-16x2,5-SI	+12 -12W4 LIYY 2x0,5	+12 -12W3 F-CY-JZ 4x0,75	+12 -12W2 F-CY-JZ 4x0,75
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+13 -13W3 H05VV-F 3G0,75	+13 -13W2 H05VV-F 3G0,75	+13 -13W1 H05VV-F 3G0,75	+13 -21P8 PUN-12x2-SI	+13 -21P7 PUN-8x1,25-SI	+13 -21P6 PUN-12x2-SI	+13 -21P5 PUN-12x2-SI
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+14 -21P11 PUN-8x1,25-SI	+14 -21P10 PUN-8x1,25-SI	+14 -21P9 PUN-8x1,25-SI	+13 -13W7 H05VV-F 3G0,75	+13 -13W6 JZ-500 7x0,75	+13 -13W5 H05VV-F 4G0,75	+13 -13W4 H05VV-F 3G0,75
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+15 -15W1 JZ-500 12x0,5	+14 -14W5 H05VV-F 3G0,75	+14 -14W4 H05VV-F 3G0,75	+14 -14W3 LIYY 2x0,5	+14 -14W2 H05VV-F 4G1,5	+14 -14W1 H05VV-F 4G1,5	+14 -3S SDE1-P2-M8
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+15ER1 -151W2 H05VV-F 2X0,75	+15ER1 -151W1 1-CYKY	+15 -15W2 H05VV-F 5G0,75
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Documentation for production preparation.

ELEKTRO
Tisovčík
MECHANIK

Klincová 37/A
Bratislava
Slovensko (SK)
+421 905 609221

STN EN 60 439-1

TYP 15ER1

Un 400 V - 50 Hz

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TN-S 3 N+PE 50Hz

IP54/20

On this page there are automatically generated production labels of all electrical distributors which are defined in the documentation.

A "test report" and "declaration of conformity" are automatically generated for each label.

All labels, protocols and declarations take their marking and technical data over from the documentation

This way any mistakes except project engineer's mistakes are eliminated

No distributor is forgotten, duplicated, missing technical data or labelling, regardless of the size or structure of documentation.



-151G1	..	-12G1	-151F1	-151A2	-151A1
-151Q1	-14Q1	-12Q1	-14K1	-12K1	-151H1
-151U13	-151U11	-151U10	-151S2	-151S1	-151Q2
-151X6	-151X4	-151X3	-151X2	-151X1	-151V1
					-151X9



Documentation for production.

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15ER1-1	distribution cabinet, B:1	AE 1060	1	150 9100 620 - AE 1060	RITTAL
=PND+15ER1-151A1	Zelio	SR3 B262 BD	1	100 3100 262 - SR3 B262 BD	APLIK
=PND+15ER1-151A2	Extension module Zelio	SR3 XT141 BD	1	100 3101 141 - SR3 XT 141 BD	APLIK
=PND+15ER1-151F1	block of contacts	GV AN11	1	100 0001 011 - GV AN11	APLIK
=PND+15ER1-151F1	circuit breaker LPN-4C-1	LPN-C	1	120 0111 110 - LPN-4C-1	I-center
=PND+15ER1-12G1	Converter 1x230V without filter	MM 420	1	130 2210 003 - 0,37 kW	SIEMEN
=PND+15ER1-12G1	comfortable control module AOP	Panel AOP	1	130 2200 031 - ovládací modul AOP	SIEMEN
=PND+15ER1-12G1	shielding holder for converter B	Schirm B	1	130 2200 002 - držiak pre tienenie B	SIEMEN
=PND+15ER1-151G1	stabilised switching power supply	CP SNT 120W	1	110 2100 120 - CP SNT 120W	ELEKTRIS
=PND+15ER1-151H1	white indicator for LED	ZB5 AV 013	1	100 1311 013 - ZB5 AV 013	APLIK
=PND+15ER1-151H1	LED 24V - white	ZBV B1	1	100 1303 001 - ZBV B1	APLIK
=PND+15ER1-151H1	label 18x27	ZBZ 33	1	100 1300 002 - ZBZ 33	APLIK
=PND+15ER1-151H1	connector	ZB5 AZ009	1	100 1301 009 - ZB5 AZ009	APLIK
=PND+15ER1-12K1	contactor	LC1 D09	1	100 1011 009 - LC1 D09 BD	APLIK
=PND+15ER1-14K1	contactor	LC1 D09	1	100 1011 009 - LC1 D09 BD	APLIK
=PND+15ER1-12Q1	Motor overload switch	GV2-ME14	1	100 0000 014 - GV2-ME14	APLIK
=PND+15ER1-12Q1	block of contacts	GV AN11	1	100 0001 011 - GV AN11	APLIK
=PND+15ER1-14Q1	Motor overload switch	GV2-ME10	1	100 0000 010 - GV2-ME10	APLIK
=PND+15ER1-14Q1	block of contacts	GV AN11	1	100 0001 011 - GV AN11	APLIK
=PND+15ER1-151Q1	power disconnecter	VCF0	1	100 1200 025 - VARIO VCF0	APLIK
=PND+15ER1-151Q2	residual current circuit breaker	OLFI-10B	1	120 0311 010 - OLFI-10B	I-center
=PND+15ER1-151S1	red pin 40mm	ZB5 AS 54	1	100 1310 000 - ZB5 AS 54	APLIK
=PND+15ER1-151S1	label EMERGENCY STOP	ZBY 9330	1	100 1300 011 - ZBY 9330	APLIK
=PND+15ER1-151S1	connector	ZB5 AZ009	1	100 1301 009 - ZB5 AZ009	APLIK
=PND+15ER1-151S1	switching unit NC	ZBE 102	1	100 1302 002 - ZBE 102	APLIK
=PND+15ER1-151S2	white backlit press key for LED	ZB5 AW 313	1	100 1312 313 - ZB5 AW 313	APLIK
=PND+15ER1-151S2	LED 24V - white	ZBV B1	1	100 1303 001 - ZBV B1	APLIK
=PND+15ER1-151S2	label 18x27	ZBZ 33	1	100 1300 002 - ZBZ 33	APLIK
=PND+15ER1-151S2	connector	ZB5 AZ009	1	100 1301 009 - ZB5 AZ009	APLIK
=PND+15ER1-151S2	switching unit NO	ZBE 101	1	100 1302 001 - ZBE 101	APLIK

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15ER1-12U1	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-12U2	bushing M16x1,5 B:50	M16	1	150 7300 016 - priechodka M16	RITTAL
=PND+15ER1-13U1	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U2	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U3	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U4	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U5	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U6	bushing M25x1,5 B:25	M25	1	150 7300 025 - priechodka M25	RITTAL
=PND+15ER1-14U1	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-14U2	bushing M16x1,5 B:50	M16	1	150 7300 016 - priechodka M16	RITTAL
=PND+15ER1-14U3	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-14U4	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-14U5	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-15U1	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-15U2	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151U1	perforated tray PVC	VKD 25x37,5	400	900 9190 002 - 25x37,5	I-center
=PND+15ER1-151U1	screw for metal plates	5,5x13 - DIN 7981C	5	800 9751 013 - 5,5x13	KEBEK
=PND+15ER1-151U1	big washer	M5 - DIN 9021	5	800 9705 801 - DIN 9021	KEBEK
=PND+15ER1-151U1	mounting reinforcement, B:20	2326.000	1	150 9100 002 - SZ 2326.000	RITTAL
=PND+15ER1-151U1	screw for metal plates	4,8x9,5 - DIN 7981C	2	800 9750 009 - 4,8x9,5	KEBEK
=PND+15ER1-151U1	serrated lock washer	M4 - DIN 6798	2	800 9704 805 - DIN 6798	KEBEK
=PND+15ER1-151U2	perforated tray PVC	VKD 25x37,5	400	900 9190 002 - 25x37,5	I-center
=PND+15ER1-151U2	screw for metal plates	5,5x13 - DIN 7981C	5	800 9751 013 - 5,5x13	KEBEK
=PND+15ER1-151U2	big washer	M5 - DIN 9021	5	800 9705 801 - DIN 9021	KEBEK
=PND+15ER1-151U2	mounting reinforcement, B:20	2326.000	1	150 9100 002 - SZ 2326.000	RITTAL
=PND+15ER1-151U2	screw for metal plates	4,8x9,5 - DIN 7981C	2	800 9750 009 - 4,8x9,5	KEBEK
=PND+15ER1-151U2	serrated lock washer	M4 - DIN 6798	2	800 9704 805 - DIN 6798	KEBEK
=PND+15ER1-151U3	perforated tray PVC	VKD 37,5x50	550	900 9190 004 - 37,5x50	I-center
=PND+15ER1-151U3	self-drilling screw TEX	4,2x16 - DIN 7504-N	6	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U3	big washer	M4 - DIN 9021	6	800 9704 801 - DIN 9021	KEBEK

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15ER1-151U4	perforated DIN bar	TS 35x7,5	550	900 9191 035 - TS 35x7,5	ELEKTRIS
=PND+15ER1-151U4	self-drilling screw TEX	4,2x16 - DIN 7504-N	6	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U4	big washer	M4 - DIN 9021	6	800 9704 801 - DIN 9021	KEBEK
=PND+15ER1-151U5	perforated DIN bar	TS 35x7,5	400	900 9191 035 - TS 35x7,5	ELEKTRIS
=PND+15ER1-151U5	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U5	big washer	M4 - DIN 9021	5	800 9704 801 - DIN 9021	KEBEK
=PND+15ER1-151U6	perforated DIN bar	TS 35x7,5	400	900 9191 035 - TS 35x7,5	ELEKTRIS
=PND+15ER1-151U6	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U6	big washer	M4 - DIN 9021	5	800 9704 801 - DIN 9021	KEBEK
=PND+15ER1-151U7	perforated tray PVC	VKD 37,5x50	470	900 9190 004 - 37,5x50	I-center
=PND+15ER1-151U7	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U7	big washer	M4 - DIN 9021	5	800 9704 801 - DIN 9021	KEBEK
=PND+15ER1-151U8	perforated tray PVC	VKD 37,5x50	400	900 9190 004 - 37,5x50	I-center
=PND+15ER1-151U8	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U8	big washer	M4 - DIN 9021	5	800 9704 801 - DIN 9021	KEBEK
=PND+15ER1-151U9	perforated tray PVC	VKD 37,5x50	340	900 9190 004 - 37,5x50	I-center
=PND+15ER1-151U9	self-drilling screw TEX	4,2x16 - DIN 7504-N	4	800 9748 516 - 4,2x16	KEBEK
=PND+15ER1-151U9	big washer	M4 - DIN 9021	4	800 9704 801 - DIN 9021	KEBEK
=PND+15ER1-151U10	isolated bridge N7 blue	N7	1	120 4100 007 - Mostík N7	I-center
=PND+15ER1-151U11	isolated bridge PE7 green	PE7	1	120 4100 107 - Mostík PE7	I-center
=PND+15ER1-151U12	bushing M25x1,5 B:25	M25	1	150 7300 025 - priechodka M25	RITTAL
=PND+15ER1-151U13	Bus bar – jumper bar	GV2-G254	1	100 0002 002 - GV2-G254	APLIK
=PND+15ER1-151U14	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151U15	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151U16	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151V1	safety module	XPS AC 5121	1	100 6401 101 - XPS AC 5121	APLIK
=PND+15ER1-151X1	horizontal marking DEK5 "U,V,W,N,PE"	DEK5 "U,V,W,N,PE"	5	110 4090 030 - DEK5 "U,V,W,N,PE"	ELEKTRIS
=PND+15ER1-151X1	end clamp WEW 35/2	WEW 35/2	2	110 4080 001 - WEW 35/2	ELEKTRIS
=PND+15ER1-151X1	white covering	WAD 8 biely	1	110 4081 021 - WAD 8 biely	ELEKTRIS
=PND+15ER1-151X1	rail-mounted terminal - 4 mm ²	WDU	3	110 4000 004 - WDU 4	ELEKTRIS

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Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A - 821 08 - BRATISLAVA - SK +421 905 609221 tisovcik.ivan@orangemail.sk IČO 14011956 - IČ DPH SK1020182207	Pneumatic conveying. 9003. Koncový zákazník	Piece list of the group of components	Creator V00 01.06.2010 Ing. Tisovčík Ivan	= 0000
			Last revision of project	
			Last revision of page	
			M = 1 : 1,00	
			29.06.2011 WUP0U34409	+ Vyroba
				3

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15ER1-151X1	yellow covering with a lightning symbol	WAD 5 žltý s bleskom	3	110 4081 002 - WAD 5 žltý	ELEKTRIS
=PND+15ER1-151X1	rail-mounted terminal - 4 mm ²	WDU-BL	1	110 4001 004 - WDU 4 BL	ELEKTRIS
=PND+15ER1-151X1	protective rail-mounted terminal PE - 4 mm ²	WPE	1	110 4002 004 - WPE 4	ELEKTRIS
=PND+15ER1-151X2	horizontal marking DEK5 "1-50"	DEK5 "1-50"	50	110 4091 001 - DEK5 "1-50"	ELEKTRIS
=PND+15ER1-151X2	end clamp WEW 35/2	WEW 35/2	1	110 4080 001 - WEW 35/2	ELEKTRIS
=PND+15ER1-151X2	white covering	WAD 8 biely	1	110 4081 021 - WAD 8 biely	ELEKTRIS
=PND+15ER1-151X2	rail-mounted terminal - 2,5 mm ²	WDU	6	110 4000 002 - WDU 2,5	ELEKTRIS
=PND+15ER1-151X2	protective rail-mounted terminal PE - 2,5 mm ²	WPE	3	110 4002 002 - WPE 2,5	ELEKTRIS
=PND+15ER1-151X2	horizontal marking DEK5 "PE"	DEK5 "PE"	2	110 4090 001 - DEK5 "PE"	ELEKTRIS
=PND+15ER1-151X2	horizontal marking DEK5 "SH"	DEK5 "SH"	1	110 4090 004 - DEK5 "SH"	ELEKTRIS
=PND+15ER1-151X2	side board for WDU	WAP 2,5-10	1	110 4082 000 - ku WDU 2,5	ELEKTRIS
=PND+15ER1-151X2	small end clamp EW 35	EW 35	1	110 4080 010 - EW 35	ELEKTRIS
=PND+15ER1-151X3	end clamp WEW 35/2	WEW 35/2	1	110 4080 001 - WEW 35/2	ELEKTRIS
=PND+15ER1-151X3	white covering	WAD 8 biely	1	110 4081 021 - WAD 8 biely	ELEKTRIS
=PND+15ER1-151X3	basic module ZIA 1,5/4L-PE	ZIA4-PE	1	110 4010 008 - ZIA 1,5/4L-PE	ELEKTRIS
=PND+15ER1-151X3	green / yellow terminal. ZVL 1,5 PE	ZVL-PE	15	110 4010 040 - ZVL 1,5 PE	ELEKTRIS
=PND+15ER1-151X3	blue terminal ZVL 1,5 BL	ZVL-BL	15	110 4010 036 - ZVL 1,5 BL	ELEKTRIS
=PND+15ER1-151X3	brown terminal ZVL 1,5 BR	ZVL-BR	15	110 4010 037 - ZVL 1,5 BR	ELEKTRIS
=PND+15ER1-151X3	basic module ZIA 1,5/4L-1S	ZIA4	14	110 4010 004 - ZIA 1,5/4L-1S	ELEKTRIS
=PND+15ER1-151X3	side board for ZIA 1,5/4L	ZAP/TW - ZIA 1,5/4L	1	110 4082 110 - ku ZIA 1,5/4L	ELEKTRIS
=PND+15ER1-151X3	small end clamp EW 35	EW 35	1	110 4080 010 - EW 35	ELEKTRIS
=PND+15ER1-151X4	end clamp WEW 35/2	WEW 35/2	2	110 4080 001 - WEW 35/2	ELEKTRIS
=PND+15ER1-151X4	white covering	WAD 8 biely	1	110 4081 021 - WAD 8 biely	ELEKTRIS
=PND+15ER1-151X4	double level terminal WDK 2,5N	WDK-N	9	110 4020 001 - WDK 2,5N	ELEKTRIS
=PND+15ER1-151X4	side board for WDK 2,5N	WAP WDK 2,5N	1	110 4082 010 - ku WDK 2,5N	ELEKTRIS
=PND+15ER1-151X6	socket for DIN bar	ZSE-03	1	120 4900 010 - ZSE-03	I-center
=PND+15ER1-151X9	end clamp WEW 35/2	WEW 35/2	2	110 4080 001 - WEW 35/2	ELEKTRIS
=PND+15ER1-151X9	white covering	WAD 8 biely	1	110 4081 021 - WAD 8 biely	ELEKTRIS
=PND+15ER1-151X9	protective rail-mounted terminal PE - 2,5 mm ²	WPE	1	110 4002 002 - WPE 2,5	ELEKTRIS
=PND+15ER1-151X9	horizontal marking DEK5 "PE"	DEK5 "PE"	1	110 4090 001 - DEK5 "PE"	ELEKTRIS

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Pneumatic conveying. 9003.
Koncový zákazník

Piece list of the group of components

Creator	V00	01.06.2010	Ing. Tisovčík Ivan
Last revision of project			
Last revision of page			
M = 1 : 1,00		29.06.2011	WUP0U34409

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Piece list of the group of components. Devices.

TIE_F01_Vyr_Prj_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15ER1-151X9	double level terminal WDK 2,5 ZQV	WDK-ZQV	4	110 4021 001 - WDK 2,5V ZQV	ELEKTRIS
=PND+15ER1-151X9	low changer 4P	ZQV 2,5N/4	1	110 4070 124 - ZQV 2,5N/4	ELEKTRIS
=PND+15ER1-151X9	low changer 4P	ZQV 2,5N/4	1	110 4070 224 - ZQV 2,5N/4	ELEKTRIS
=PND+15ER1-151X9	side board for WDK 2,5	WAP WDK 2,5	1	110 4082 011 - ku WDK 2,5	ELEKTRIS

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15E1-1	empty box for EMERGENCY-OFF head	XAL K01	1	100 1340 001 - XAL K01	APLIK
=PND+15E1-1	bushing M20x1,5 B:50	M20	1	150 7300 020 - priechodka M20	RITTAL
=PND+15E1-S1	red pin 40mm	ZB5 AS 54	1	100 1310 000 - ZB5 AS 54	APLIK
=PND+15E1-S1	switching unit NC	ZEN L1121	1	100 1302 012 - ZEN L1121	APLIK

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15E2-1	empty box for 4 heads	XAL D04	1	100 1340 014 - XAL D04	APLIK
=PND+15E2-1	bushing M20x1,5 B:50	M20	1	150 7300 020 - priedhodka M20	RITTAL
=PND+15E2-H1	yellow indicator for LED	ZB5 AV 053	1	100 1311 053 - ZB5 AV 053	APLIK
=PND+15E2-H1	LED 24V - yellow	ZAL VB5	1	100 1305 005 - ZAL VB5	APLIK
=PND+15E2-H1	label 8x27	ZBZ 32	1	100 1300 001 - ZBZ 32	APLIK
=PND+15E2-S1	white backlit press key for LED	ZB5 AW 313	1	100 1312 313 - ZB5 AW 313	APLIK
=PND+15E2-S1	LED 24V - white	ZAL VB1	1	100 1305 001 - ZAL VB1	APLIK
=PND+15E2-S1	label 8x27	ZBZ 32	1	100 1300 001 - ZBZ 32	APLIK
=PND+15E2-S1	switching unit NO	ZEN L1111	1	100 1302 011 - ZEN L1111	APLIK
=PND+15E2-S2	press key without a button	ZB5 AA	1	100 1320 000 - ZB5 AA0	APLIK
=PND+15E2-S2	black button	ZBA 2	1	100 1320 002 - ZBA 2	APLIK
=PND+15E2-S2	label 8x27	ZBZ 32	1	100 1300 001 - ZBZ 32	APLIK
=PND+15E2-S2	switching unit NC	ZEN L1121	1	100 1302 012 - ZEN L1121	APLIK
=PND+15E2-S3	rotary switch	ZB5 AD2	1	100 1322 022 - ZB5 AD2	APLIK
=PND+15E2-S3	label 8x27	ZBZ 32	1	100 1300 001 - ZBZ 32	APLIK
=PND+15E2-S3	switching unit NO	ZEN L1111	1	100 1302 011 - ZEN L1111	APLIK

Piece list of the group of components. Devices.

TIE_F01_Vyr_Prs_ALL_V01

Full designation.	Name.	Type number.	Quantity.	Part number.	Supplier.
=PND+15E3-H1	clamp ring + covering	XVBC21	1	100 5500 021 - XVBC21	APLIK
=PND+15E3-H1	buzzer 90dB	XVBC9B	1	100 5500 040 - XVBC9B	APLIK
=PND+15E3-H1	stand - column 60mm	XVEZ13	1	100 5500 001 - XVEZ13	APLIK
=PND+15E3-H1	lamp green	XVBC33	1	100 5500 033 - XVBC33	APLIK
=PND+15E3-H1	yellow lamp	XVBC38	1	100 5500 038 - XVBC38	APLIK
=PND+15E3-H1	bulb - 24V 7W	DL1 BEB	2	100 5500 101 - DL1 BEB	APLIK

Kusovník / Výdajka výrobnéj zostavy (KÁBLE)

TIE_F01_Vyr_Kab_ALL_V01

Označenie	Názov	Typové číslo	Množstvo	Číslo artiklu	Výrobca
=PND+12-12W2	shielded cable 300/500V	F-CY-JZ 4x0,75	20 m	140 7010 404 - 4x0,75	HELU
=PND+12-12W3	shielded cable 300/500V	F-CY-JZ 4x0,75	5 m	140 7010 404 - 4x0,75	HELU
=PND+12-12W4	signalling cable	LiYY 2x0,5	20 m	141 7001 302 - 2x0,5	
=PND+13-13W1	cable 300/500V	H05VV-F 3G0,75	25 m	141 7004 304 - 3x0,75	
=PND+13-13W2	cable 300/500V	H05VV-F 3G0,75	25 m	141 7004 304 - 3x0,75	
=PND+13-13W3	cable 300/500V	H05VV-F 3G0,75	25 m	141 7004 304 - 3x0,75	
=PND+13-13W4	cable 300/500V	H05VV-F 3G0,75	25 m	141 7004 304 - 3x0,75	
=PND+13-13W5	cable 300/500V	H05VV-F 4G0,75	25 m	141 7004 404 - 4x0,75	
=PND+13-13W6	cable 300/500V	JZ-500 7x0,75	25 m	140 7002 074 - 7x0,75	HELU
=PND+13-13W7	cable 300/500V	H05VV-F 3G0,75	2 m	141 7004 304 - 3x0,75	
=PND+14-14W1	cable 300/500V	H05VV-F 4G1,5	20 m	141 7004 406 - 4x1,5	
=PND+14-14W2	cable 300/500V	H05VV-F 4G1,5	5 m	141 7004 406 - 4x1,5	
=PND+14-14W3	signalling cable	LiYY 2x0,5	20 m	141 7001 302 - 2x0,5	
=PND+14-14W4	cable 300/500V	H05VV-F 3G0,75	25 m	141 7004 304 - 3x0,75	
=PND+14-14W5	cable 300/500V	H05VV-F 3G0,75	25 m	141 7004 304 - 3x0,75	
=PND+15-15W1	cable 300/500V	JZ-500 12x0,5	25 m	140 7002 123 - 12x0,5	HELU
=PND+15-15W2	cable 300/500V	H05VV-F 5G0,75	25 m	141 7004 504 - 5x0,75	
=PND+15ER1-151W1	cable Cu	1-CYKY	20 m	149 7005 008 - 5x4	KABLO-E
=PND+15ER1-151W2	cable 300/500V	H05VV-F 2X0,75	25 m	141 7016 024 - 2x0,75	

Distribution frame group of components.

=PND+15ER1-151X1

TIE_F13_Terminal_V_01

WEW 35/2+WAD8	□	WEW 35/2	WAD 8 biely
U	□ 4	WDU	WAD 5 žltý s bleskom
V	□ 4	WDU	WAD 5 žltý s bleskom
W	□ 4	WDU	WAD 5 žltý s bleskom
N	□ 4	WDU-BL	
PE	□ 4	WPE	
WEW 35/2	□	WEW 35/2	

Automatically generated drawing for composing and marking rail-mounted terminals.

Distribution frame group of components.

=PND+15ER1-151X2

TIE_F13_Terminal_V_01

WEW 35/2+WAD8	□	WEW 35/2	WAD 8 biely
1	□	2,5 WDU	
2	□	2,5 WDU	
3	□	2,5 WDU	
PE	□	2,5 WPE	DEK5 "PE"
4	□	2,5 WDU	
5	□	2,5 WDU	
6	□	2,5 WDU	
PE	□	2,5 WPE	DEK5 "PE"
SH	□	2,5 WPE	DEK5 "SH"
WAP 2,5-10	□	WAP 2,5-10	
EW 35	□	EW 35	

Automatically generated drawing for composing and marking rail-mounted terminals

Distribution frame group of components.

=PND+15ER1-151X3

TIE_F13_Terminal_V_01

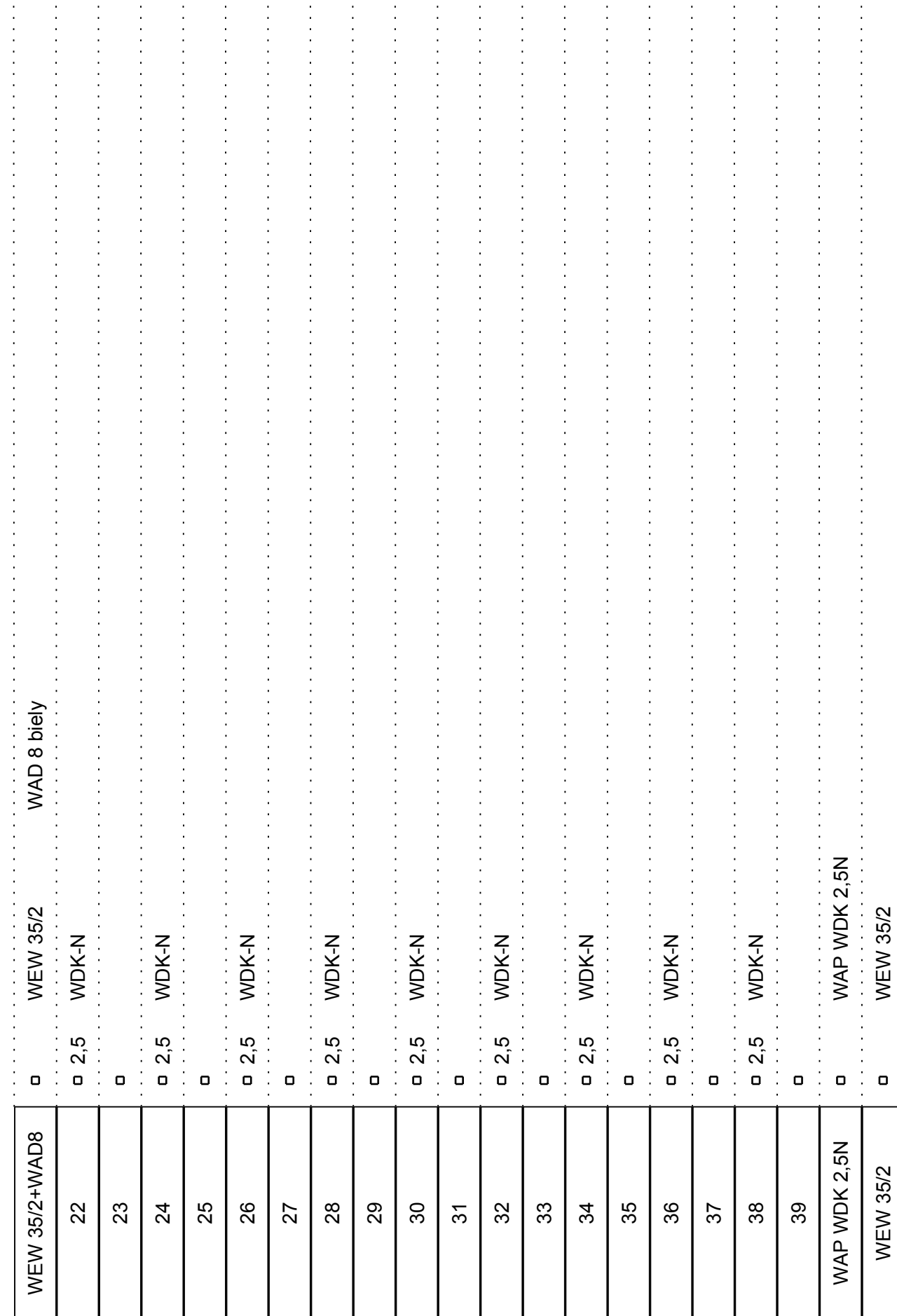
WEW 35/2+WAD8	WEW 35/2	WAD 8 biely	
7	1,5 ZIA4-PE	ZVL-PE	ZVL-BL ZVL-BR
8	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
9	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
10	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
11	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
12	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
13	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
14	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
15	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
16	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
17	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
18	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
19	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
20	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
21	1,5 ZIA4	ZVL-PE	ZVL-BL ZVL-BR
ZAP/TW - ZIA 1,5/4L	ZAP/TW - ZIA 1,5/4L		
EW 35	EW 35		

Automatically generated drawing for composing and marking multipolar collecting bar terminals.

Distribution frame group of components.

=PND+15ER1-151X4

TIE_F13_Terminal_V_01

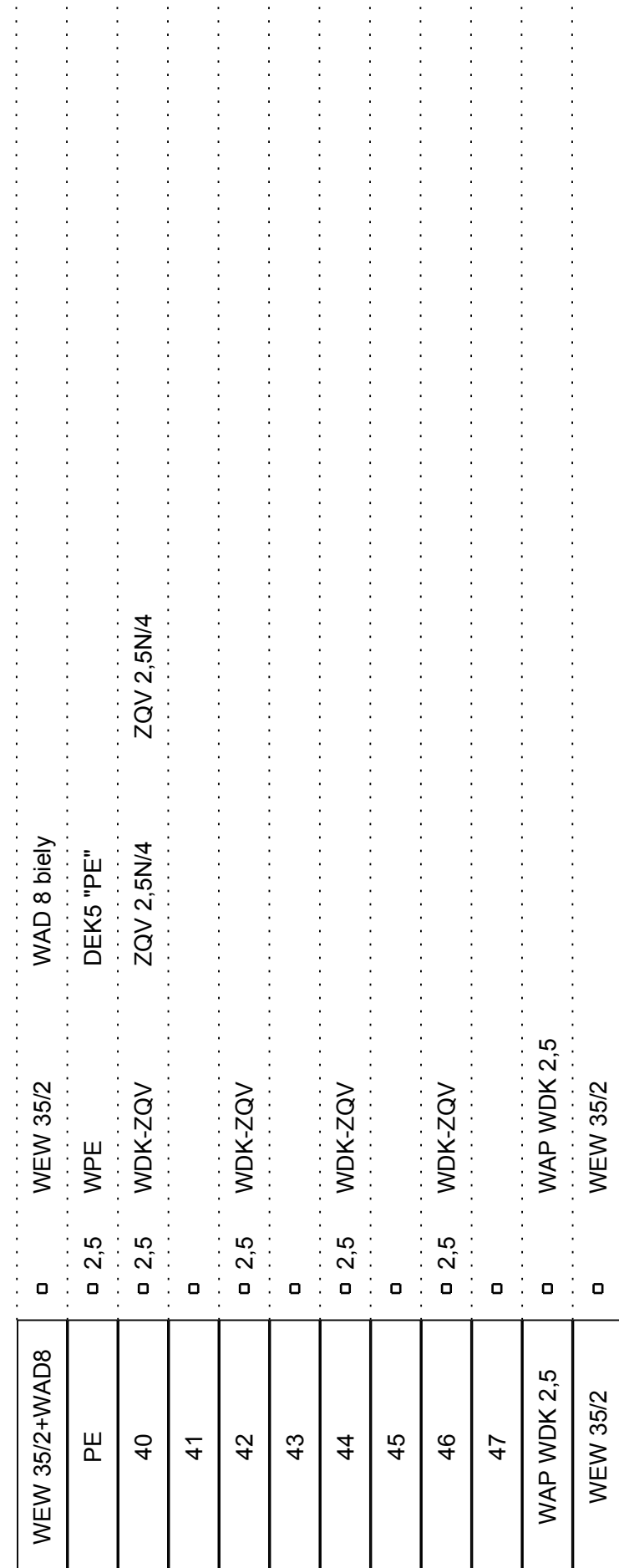


Automatically generated drawing for composing and marking double level terminals.

Distribution frame group of components.

=PND+15ER1-151X9

TIE_F13_Terminal_V_01



Automatically generated drawing for composing and marking double level terminals.

Documentation for measuring and testing.

Osvedčenie o vykonaní kusovej skúšky elektrického rozvádzača

091-?

I. základné údaje o zariadení

výrobca	Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A 821 08 Bratislava Slovensko (SK)
názov (typ) rozvádzača	15ER1 OCEP-P
výrobné číslo rozvádzača	?
menovité napätie hlavných obvodov	400 V - 50 Hz
menovité napätie riadiacich obvodov	24 V DC
menovitý prúd rozvádzača	25 A
číslo výkresu (výkresov)	9003
rok výroby rozvádzača	2011
ochrana krytím	IP54/20
ochrana pred zásahom elektrickým prúdom	STN 33 2000-4-41

II. vykonané skúšky podľa STN EN 60439-1 a ich výsledok

čl. 8.3.1	kontrola súhlasnosti vyrobeného zariadenia s objednávkou	vyhovuje
čl. 8.3.1	kontrola povrchovej úpravy, rozmerov a bezpečnostných tabuliek	vyhovuje
čl. 8.3.1	kontrola označenia prístrojov, svoriek a svorkovnic	vyhovuje
čl. 8.3.1	kontrola zapojenia podľa schémy	vyhovuje
čl. 8.3.1	mechanická kontrola vodičových elektrických spojov	vyhovuje
čl. 8.2.5	preverenie vzdušných vzdialeností a povrchových ciest	vyhovuje
čl. 8.3.3	kontrola ochranných opatrení a spojitosti ochranných obvodov	vyhovuje
čl. 8.2.4	kontrola účinnosti ochranného obvodu	vyhovuje
	- meranie prechodového odporu	pri I=25A
	- použitý merací prístroj	MPO-01A v.č. 1497
čl. 8.3.4	preverenie izolačného odporu	Ω
	- meranie izolačného odporu hl. obvodov	pri U = 2500 V MΩ
	- meranie izolačného odporu obvodu SELV	pri U = 500 V MΩ
	- použitý merací prístroj	IZO 2500 v.č. 519
čl. 8.3.1	funkčná skúška	vyhovuje
čl. 8.2.1	preverenie medzí oteplenia	vyhovuje
čl. 8.3.1	kontrola výzbroje a príslušenstva	vyhovuje

III. Záver

zodpovedný pracovník výrobcu
Ing. Tisovčík Ivanskúšku vykonal
Slezák Miloš

dátum 1. 2. 2010

dátum 1. 2. 2010

I. základné údaje o zariadení

výrobca názov (typ) rozvádzača výrobné číslo rozvádzača číslo výkresu (výkresov) rok výroby rozvádzača krajina pôvodu popis a funkcia	Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A 821 08 Bratislava Slovensko (SK) 15ER1 ? 9003 2011 Slovensko (SK) riadenie výrobnjej technológie
	OCEP-P

II. výrobca vyhlasuje, že:

- A1. uvedený výrobok je pri použití za nami určených podmienok bezpečný
- power distributor assembly manual
 - conditions for safe operation of power distributor
 - power distributor service, maintenance and operation manual
- A2. je zabezpečená zhoda výrobku s technickou dokumentáciou
- A3. je zabezpečená zhoda s príslušnými nariadeniami vlády
- B1. uvedený výrobok spĺňa požiadavky technických predpisov a noriem
- C1. posúdenie zhody bolo vykonané podľa:
- §2 a §5 nariadenia vlády č. 308 zo dňa 15.5.2004
- D1. pri posudzovaní zhody boli použité:
- harmonised Slovak Technical Standards (STN) valid on 1. 1. 2010

III. poznámky

zodpovedný pracovník výrobcu Ing. Tisovčík Ivan	výrobok bol označený značkou
.....	
dátum 1. 2. 2010	dátum 1. 2. 2010
.....	

Documentation for assembly.

Cable laying during assembly

TIE_F10_Kla_Kab_Mon_SK

Full designation	from	to	Type	No. of cond.	cross-section	Length	Remark
=PND+12-12W2	=PND+15ER1-151X2	=PND+12-3Q	F-CY-JZ	4	4x0,75	20	
=PND+12-12W3	=PND+12-3Q	=PND+12-2M	F-CY-JZ	4	4x0,75	5	
=PND+12-12W4	=PND+15ER1-151X3	=PND+12-3Q	LiYY	2	2x0,5	20	
=PND+13-13W1	=PND+15ER1-151X3	=PND+13-7Y	H05VV-F-G	3	3x0,75	25	
=PND+13-13W2	=PND+15ER1-151X3	=PND+13-8Y	H05VV-F-G	3	3x0,75	25	
=PND+13-13W3	=PND+15ER1-151X3	=PND+13-3Y	H05VV-F-G	3	3x0,75	25	
=PND+13-13W4	=PND+15ER1-151X3	=PND+13-4Y	H05VV-F-G	3	3x0,75	25	
=PND+13-13W5	=PND+15ER1-151X3	=PND+13-2S	H05VV-F-G	4	4x0,75	25	
=PND+13-13W6	=PND+15ER1-151X3	=PND+13-6S	JZ-500	7	0,75	25	
=PND+13-13W7	=PND+13-6S	=PND+13-5Y1	H05VV-F-G	3	0,75	2	
=PND+14-14W1	=PND+15ER1-151X2	=PND+14-2Q	H05VV-F-G	4	4x1,5	20	
=PND+14-14W2	=PND+14-2Q	=PND+14-1M	H05VV-F-G	4	4x1,5	5	
=PND+14-14W3	=PND+15ER1-151X3	=PND+14-2Q	LiYY	2	2x0,5	20	
=PND+14-14W4	=PND+15ER1-151X3	=PND+14-4Y	H05VV-F-G	3	3x0,75	25	
=PND+14-14W5	=PND+15ER1-151X3	=PND+14-5Y	H05VV-F-G	3	3x0,75	25	
=PND+15-15W1	=PND+15ER1-151X4	=PND+15E2-S1	JZ-500	12	12x0,5	25	
		=PND+15E2-S2					
		=PND+15E2-S3					
		=PND+15E2-H1					
=PND+15-15W2	=PND+15ER1-151X4	=PND+15E3-H1	H05VV-F-G	5	5x0,75	25	
=PND+15ER1-151W1	=PND+15ER1-151X1	=??+??-X	CYKY	5	5x4	20	
=PND+15ER1-151W2	=PND+15ER1-151X4	=PND+15E1-S1	H05VV-F-X	2	2x0,75	25	

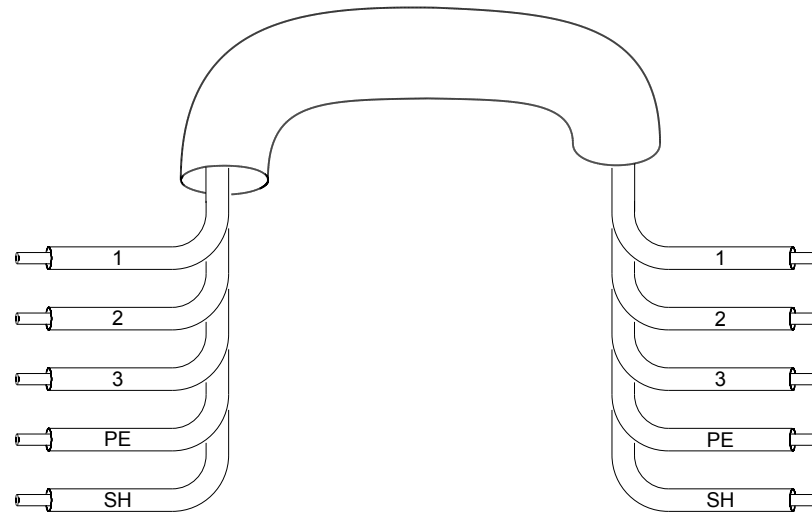
Cable connection

=PND+12-12W2

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
F-CY-JZ	4	4x0,75mm ²	20 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/12.b.0	+15ER1-151X2:4	1	-3Q:L1	/12.b.0
	/12.b.1	+15ER1-151X2:5	2	-3Q:L2	/12.b.0
	/12.b.1	+15ER1-151X2:6	3	-3Q:L3	/12.b.0
	/12.b.1	+15ER1-151X2:PE	PE	-3Q:PE	/12.b.0
	/12.b.1	+15ER1-151X2:SH	SH	-3Q:SH	/12.b.1



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

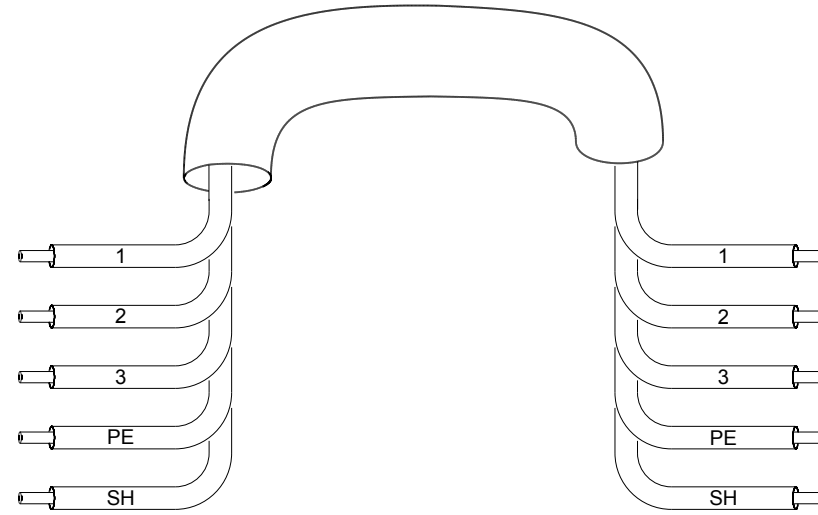
Cable connection

=PND+12-12W3

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
F-CY-JZ	4	4x0,75mm ²	5 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
Disconnecter	/12.b.0	-3Q:T1	1	-2M:U1	/12.b.0
=	/12.b.0	-3Q:T2	2	-2M:V1	/12.b.0
=	/12.b.0	-3Q:T3	3	-2M:W1	/12.b.0
=	/12.b.0	-3Q:PE	PE	-2M:PE	/12.b.0
	/12.b.1	-3Q:SH	SH	-2M:SH	/12.b.1



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
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VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

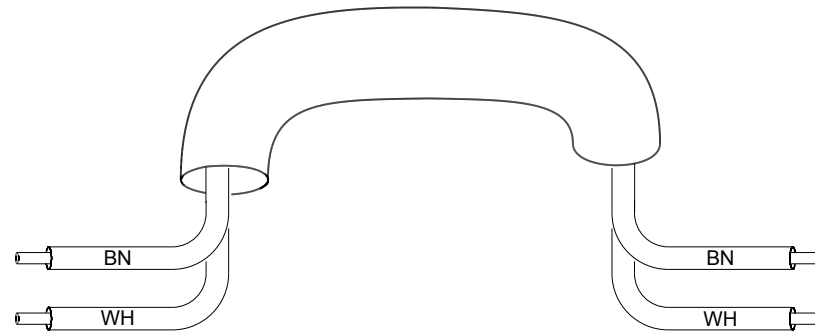
Cable connection

=PND+12-12W4

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
LiYY	2	2x0,5mm ²	20 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/12.b.3	+15ER1-151X3:21	BN	-3Q:14	/12.b.3
	/12.b.3	+15ER1-151X3:21	WH	-3Q:13	/12.b.3



BK BLACK ČIERNÁ
 BN BROWN HĽNEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

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 WH WHITE BIELA
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 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

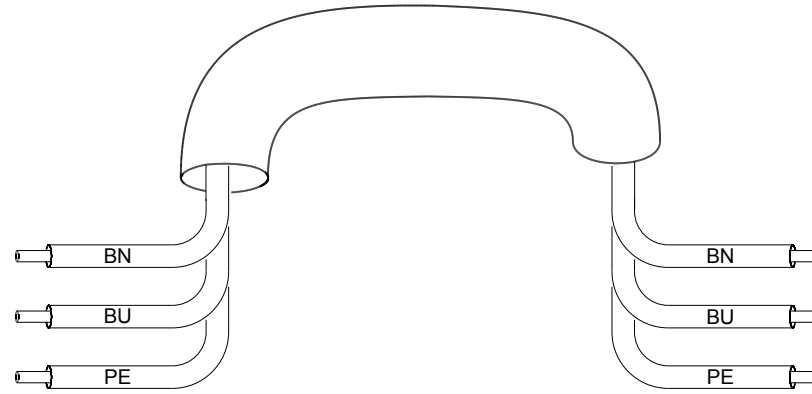
Cable connection

=PND+13-13W1

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	3x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/13.c.0	+15ER1-151X3:13	BN	-7Y:1	/13.c.1
	/13.c.0	+15ER1-151X3:13	BU	-7Y:2	/13.c.1
	/13.c.0	+15ER1-151X3:13	PE	-7Y:PE	/13.c.1



BK BLACK ČIERNÁ
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 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

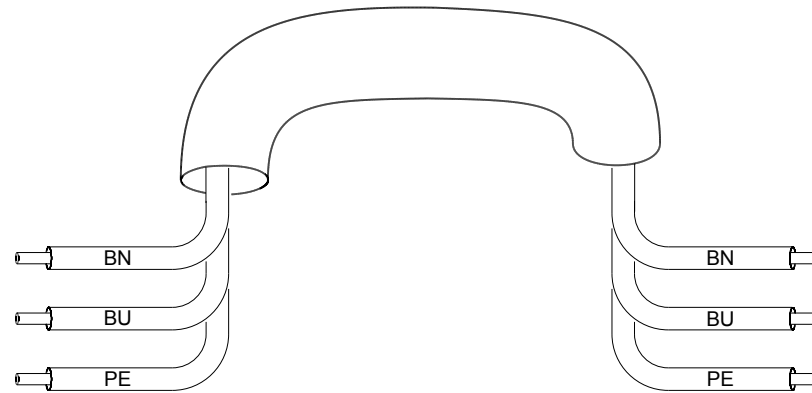
Cable connection

=PND+13-13W2

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	3x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/13.c.2	+15ER1-151X3:14	BN	-8Y:1	Regeneration
	/13.c.2	+15ER1-151X3:14	BU	-8Y:2	=
	/13.c.2	+15ER1-151X3:14	PE	-8Y:PE	=



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
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 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

Cable connection

=PND+13-13W3

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	3x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/13.d.0	+15ER1-151X3:15		-3Y:1	/13.d.1
	/13.d.0	+15ER1-151X3:15		-3Y:2	/13.d.1
	/13.d.0	+15ER1-151X3:15		-3Y:PE	/13.d.1

BK	BLACK	ČIERNÁ
BN	BROWN	HĽEDÁ
GY	GREY	ŠEDÁ
BU	BLUE	MODRÁ
GN	GREEN	ZELENÁ

YE	YELLOW	ŽLTÁ
RD	RED	ČERVENÁ
WH	WHITE	BIELÁ
OG	ORANGE	ORANŽOVÁ
PK	PINK	RUŽOVÁ

VT	VIOLET	FIALOVÁ
TQ	TURQUOISE	TYRKYSOVÁ
SR	SILVER	STRIEBORNÁ

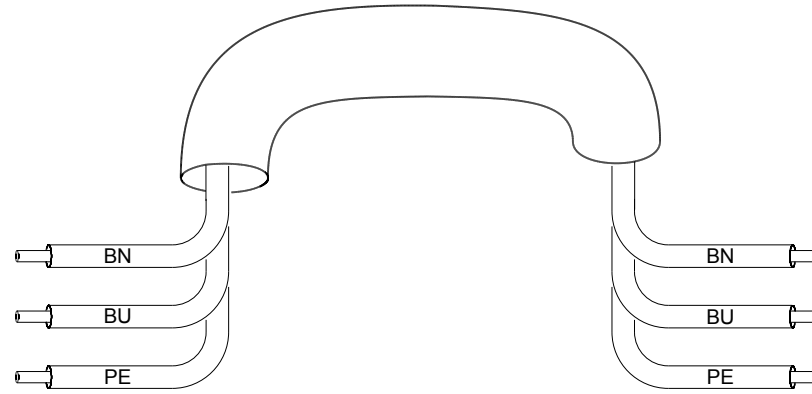
Cable connection

=PND+13-13W4

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	3x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/13.d.2	+15ER1-151X3:16	BN	-4Y:1	Purification
	/13.d.2	+15ER1-151X3:16	BU	-4Y:2	=
	/13.d.2	+15ER1-151X3:16	PE	-4Y:PE	=



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

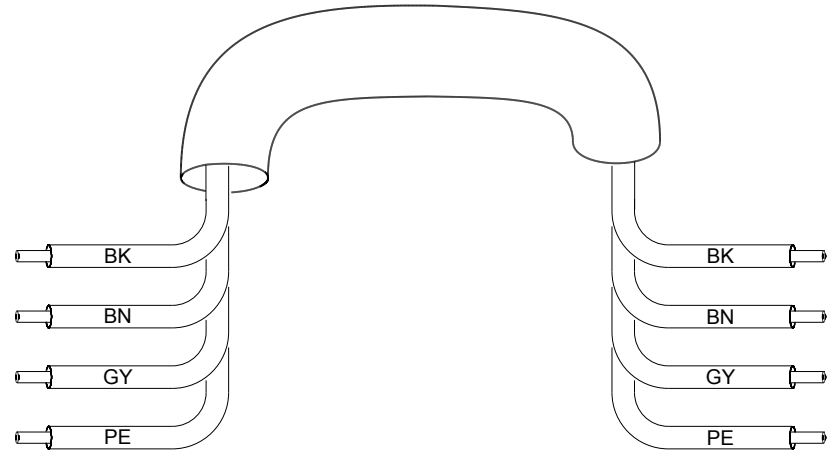
Cable connection

=PND+13-13W5

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	4	4x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/13.d.6	+15ER1-151X3:17	BK	-2S:+24	Max. level
	/13.d.6	+15ER1-151X3:17	BN	-2S:0	=
	/13.d.6	+15ER1-151X3:17	GY	-2S:NO	=
	/13.d.6	+15ER1-151X3:17	PE	-2S:PE	=



BK BLACK ČIERNÁ
 BN BROWN HĽNEDÁ
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 BU BLUE MODRÁ
 GN GREEN ZELENÁ

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 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

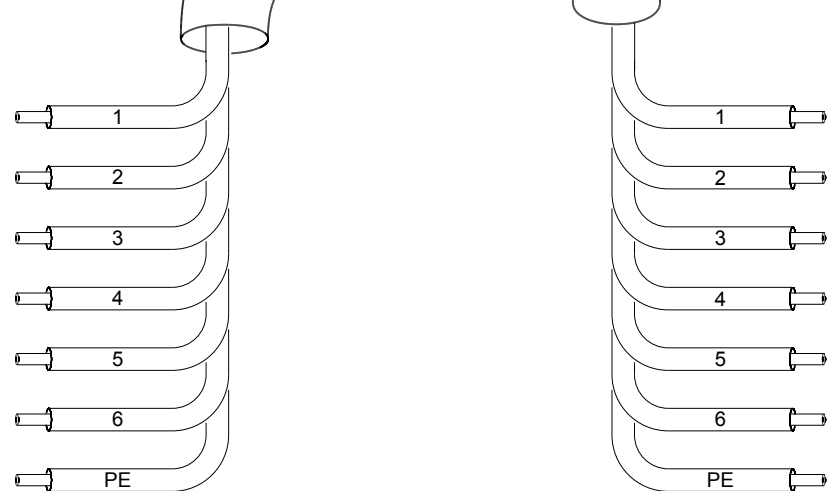
VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

Cable connection

=PND+13-13W6

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
JZ-500	7	0,75mm ²	25 m	

Function text	drawing	Connection point		Connection point	drawing	Function text
	/13.e.3	+15ER1-151X3:19		-6S:4	/13.e.1	Flap valve position
	/13.e.5	+15ER1-151X3:20		-6S:7	/13.e.1	=
	/13.e.5	+15ER1-151X3:20		-6S:8	/13.e.1	=
	/13.e.1	+15ER1-151X3:18		-6S:1	/13.e.1	=
	/13.e.1	+15ER1-151X3:18		-6S:3	/13.e.1	=
	/13.e.5	+15ER1-151X3:20		-6S:PE	/13.e.1	Flap valve position

BK BLACK ČIERNÁ
 BN BROWN HĽNEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
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 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

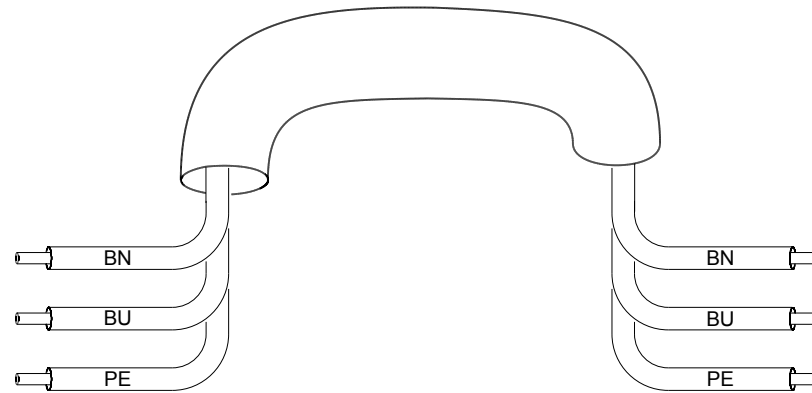
Cable connection

=PND+13-13W7

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	0,75mm ²	2 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
Flap valve position	/13.e.1	-6S:7	BN	-5Y1:1	/13.e.8 Flap valve
=	/13.e.1	-6S:8	BU	-5Y1:2	/13.e.8 =
=	/13.e.1	-6S:PE	PE	-5Y1:PE	/13.e.8 =



BK BLACK ČIERNÁ
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 BU BLUE MODRÁ
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 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

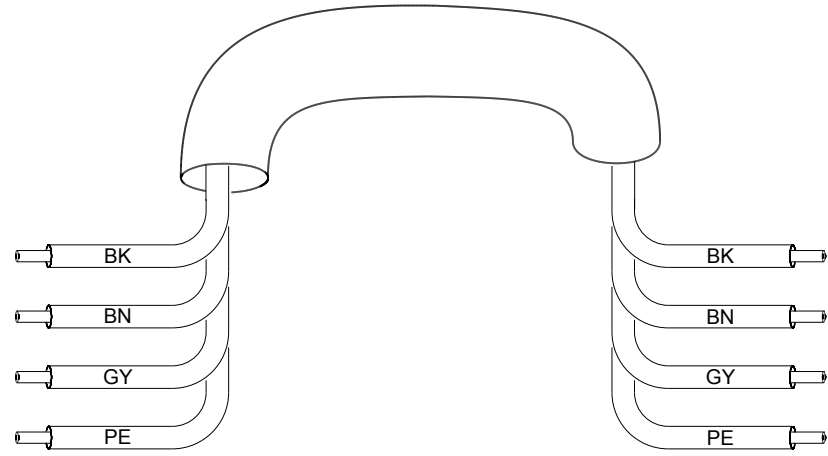
Cable connection

=PND+14-14W1

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	4	4x1,5mm ²	20 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/14.c.0	+15ER1-151X2:1	BK	-2Q:L1	Motor disconnector
	/14.c.1	+15ER1-151X2:2	BN	-2Q:L2	=
	/14.c.1	+15ER1-151X2:3	GY	-2Q:L3	=
	/14.c.1	+15ER1-151X2:PE	PE	-2Q:PE	=



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

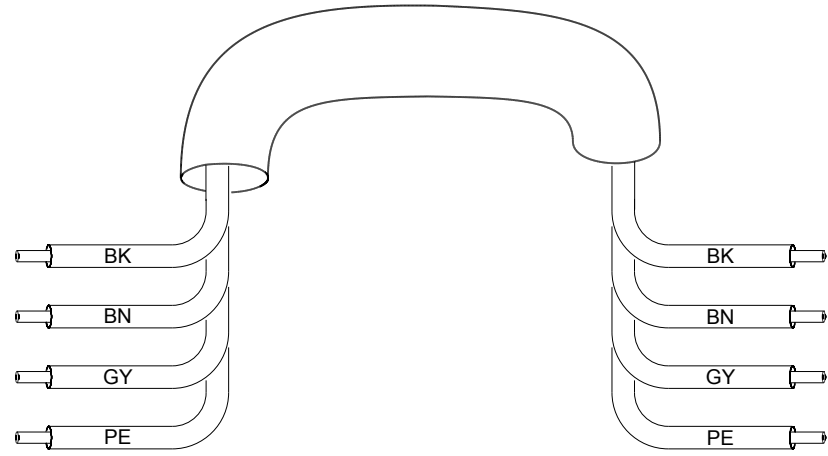
Cable connection

=PND+14-14W2

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	4	4x1,5mm ²	5 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
Motor disconnecter	/14.c.0	-2Q:T1	BK	-1M:U1	Pump
=	/14.c.0	-2Q:T2	BN	-1M:V1	=
=	/14.c.0	-2Q:T3	GY	-1M:W1	=
=	/14.c.0	-2Q:PE	PE	-1M:PE	=



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

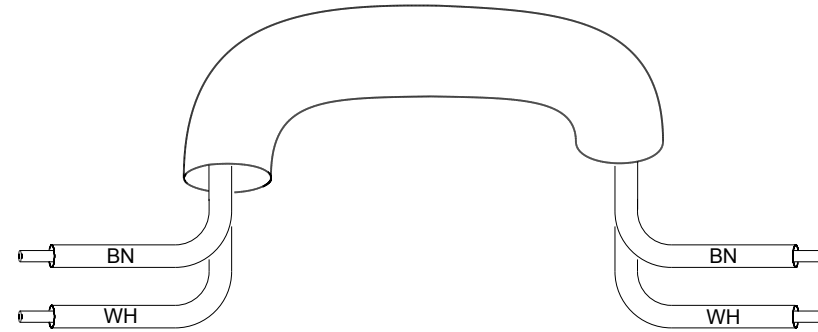
Cable connection

=PND+14-14W3

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
LiYY	2	2x0,5mm ²	20 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/14.c.3	+15ER1-151X3:8	BN	-2Q:14	/14.c.3
	/14.c.3	+15ER1-151X3:8	WH	-2Q:13	/14.c.3



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

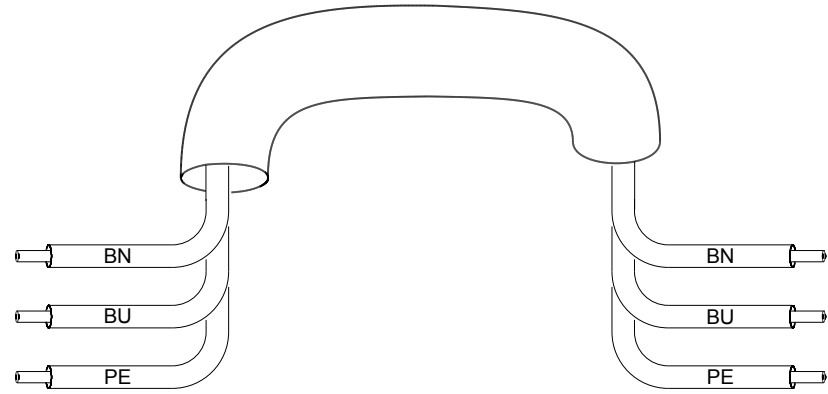
Cable connection

=PND+14-14W4

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	3x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/14.d.6	+15ER1-151X3:11	BN	-4Y:1	/14.d.6
	/14.d.6	+15ER1-151X3:11	BU	-4Y:2	/14.d.6
	/14.d.6	+15ER1-151X3:11	PE	-4Y:PE	/14.d.6



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

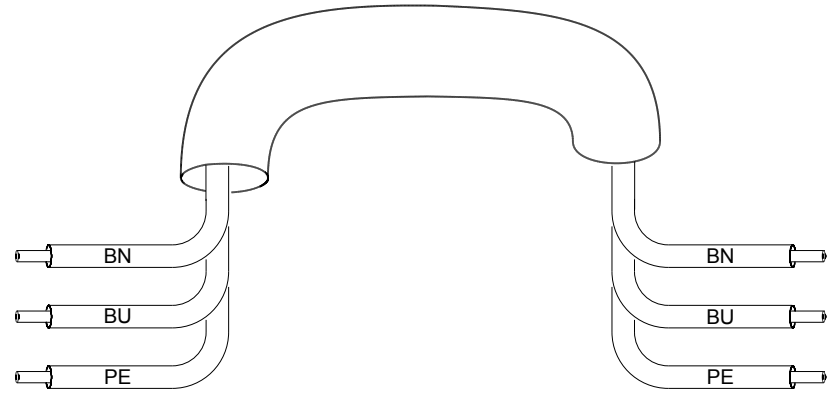
Cable connection

=PND+14-14W5

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	3	3x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/14.d.8	+15ER1-151X3:12	BN	-5Y:1	Conveyance
	/14.d.8	+15ER1-151X3:12	BU	-5Y:2	=
	/14.d.8	+15ER1-151X3:12	PE	-5Y:PE	=



BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

Cable connection

=PND+15-15W1

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
JZ-500	12	12x0,5mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/15.b.1	+15ER1-151X4:32	1	+15E2-S1:4	/15.b.1 Start
Stop	/15.b.2	+15ER1-151X4:34	2	+15E2-S2:1	/15.b.2 Stop
Running	/15.b.6	+15ER1-151X4:36	3	+15E2-S1:X1	/15.b.6 Running
Failure	/15.b.8	+15ER1-151X4:38	4	+15E2-H1:X1	/15.b.8 Failure
Start	/15.b.1	+15ER1-151X4:33	5	+15E2-S1:3	/15.b.1 Start
Automatic	/15.b.3	+15ER1-151X4:35	6	+15E2-S3:3	/15.b.3 Automatic
Failure	/15.b.9	+15ER1-151X4:39	7	+15E2-H1:X2	/15.b.8 Failure
			8		
			9		
			10		
			11		
			PE		

BK BLACK ČIERNÁ
 BN BROWN HĽEDÁ
 GY GREY ŠEDÁ
 BU BLUE MODRÁ
 GN GREEN ZELENÁ

YE YELLOW ŽLTÁ
 RD RED ČERVENÁ
 WH WHITE BIELA
 OG ORANGE ORANŽOVÁ
 PK PINK RUŽOVÁ

VT VIOLET FIALOVÁ
 TQ TURQUOISE TYRKYSOVÁ
 SR SILVER STRIEBORNÁ

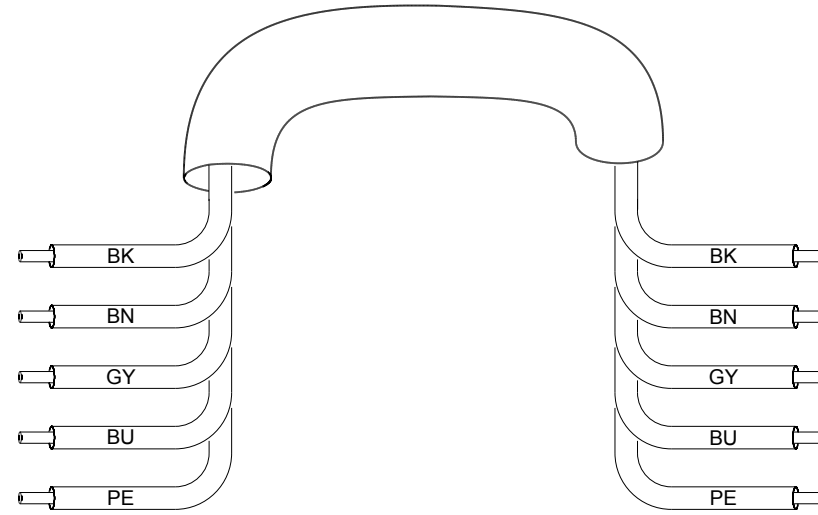
Cable connection

=PND+15-15W2

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-G	5	5x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/15.c.0	+15ER1-151X4:28	BK	+15E3-H1:C	Signal lamp
	/15.c.2	+15ER1-151X4:30	BN	+15E3-H1:2	=
	/15.c.1	+15ER1-151X4:29	GY	+15E3-H1:1	=
	/15.c.3	+15ER1-151X4:31	BU	+15E3-H1:3	=



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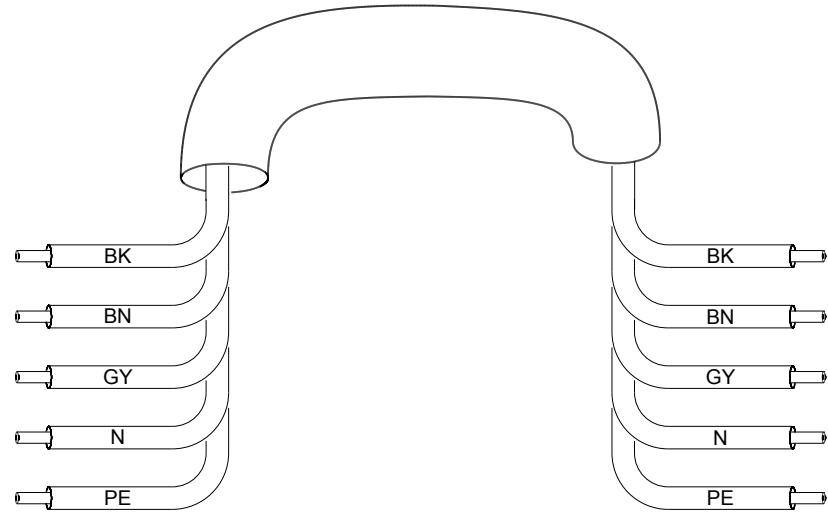
Cable connection

=PND+15ER1-151W1

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
CYKY	5	5x4mm ²	20 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/151.m.3	-151X1:U	BK	=??+??-X:1	/151.m.3
	/151.m.4	-151X1:V	BN	=??+??-X:2	/151.m.3
	/151.m.4	-151X1:W	GY	=??+??-X:3	/151.m.3
	/151.m.4	-151X1:N	N	=??+??-X:4	/151.m.3
	/151.m.4	-151X1:PE	PE	=??+??-X:5	/151.m.3



BK BLACK ČIERNÁ
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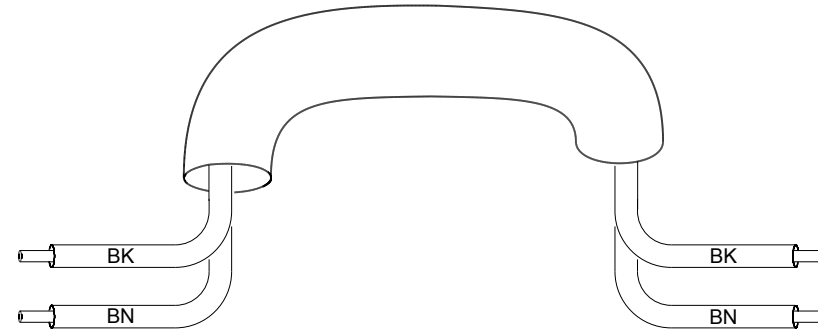
Cable connection

=PND+15ER1-151W2

TIE_F09_Zap_Kab_Mon_SK

Type	No. of cond.	cross-section	Length	remark
H05VV-F-X	2	2x0,75mm ²	25 m	

Function text	drawing	Connection point	Connection point	drawing	Function text
	/151.p.1	-151X4:22	BK	+15E1-S1:1	/151.p.1
1 – channel circuit DRIVES STOP	/151.p.1	-151X4:23	BN	+15E1-S1:2	/151.p.1



BK	BLACK	ČIERNÁ	YE	YELLOW	ŽLTÁ	VT	VIOLET	FIALOVÁ
BN	BROWN	HĽEDÁ	RD	RED	ČERVENÁ	TQ	TURQUOISE	TYRKYSOVÁ
GY	GREY	ŠEDÁ	WH	WHITE	BIELÁ	SR	SILVER	STRIEBORNÁ
BU	BLUE	MODRÁ	OG	ORANGE	ORANŽOVÁ			
GN	GREEN	ZELENÁ	PK	PINK	RUŽOVÁ			

Documentation for the customer

Parts list

TIE_F01_Zak_Prs_ALL_V01

Full designation	Name	Type number	Quantity	Unit	Part number	Manufacturer
=PND+12-2M	motor 3x400V		1	ks	900 5000 137 - 0,37 kW	
=PND+12-3Q	power disconnecter	VBF02	1	ks	100 1202 012 - VARIO VBF02	TEL
=PND+12-3Q	block of auxiliary contacts	VZ 20	1	ks	100 1206 020 - VZ 20	TEL
=PND+12-3Q	PE module	VZ 14	1	ks	100 1206 114 - VZ 14	TEL
=PND+12-3Q	bushing M20x1,5 B:50	M20	2	ks	150 7300 020 - priechodka M20	RITTAL
=PND+12-3Q	bushing M16x1,5 B:50	M16	1	ks	150 7300 016 - priechodka M16	RITTAL
=PND+12-12W2	shielded cable 300/500V	F-CY-JZ 4x0,75	1	m	140 7010 404 - 4x0,75	HELU
=PND+12-12W3	shielded cable 300/500V	F-CY-JZ 4x0,75	1	m	140 7010 404 - 4x0,75	HELU
=PND+12-12W4	signalling cable	LIYY 2x0,5	1	m	141 7001 302 - 2x0,5	
=PND+13-21P1	silver hose	PUN-16x2,5-SI	10	m	250 7000 701 - PUN-16x2,5-SI	FESTO
=PND+13-21P2	silver hose	PUN-12x2-SI	10	m	250 7000 601 - PUN-12x2-SI	FESTO
=PND+13-21P3	silver hose	PUN-8x1,25-SI	5	m	250 7000 401 - PUN-8x1,25-SI	FESTO
=PND+13-21P4	silver hose	PUN-16x2,5-SI	10	m	250 7000 701 - PUN-16x2,5-SI	FESTO
=PND+13-21P5	silver hose	PUN-12x2-SI	4	m	250 7000 601 - PUN-12x2-SI	FESTO
=PND+13-21P6	silver hose	PUN-12x2-SI	4	m	250 7000 601 - PUN-12x2-SI	FESTO
=PND+13-21P7	silver hose	PUN-8x1,25-SI	5	m	250 7000 401 - PUN-8x1,25-SI	FESTO
=PND+13-21P8	silver hose	PUN-12x2-SI	4	m	250 7000 601 - PUN-12x2-SI	FESTO
=PND+13-2S	wing sensor	Silomax P	1	ks	900 6010 100 - Silomax P	
=PND+13-6S	flap valve EBRO	EBRO NSK	1	ks	900 6010 302 - EBRO NSK	
=PND+13-21U1	connecting tee joint	QST-16-12	1	ks	250 7200 716 - QST-16-12	FESTO
=PND+13-21U2	connecting tee joint	QST-12-8	1	ks	250 7200 614 - QST-12-8	FESTO
=PND+13-21U3	connecting tee joint	QST-12	1	ks	250 7200 616 - QST-12	FESTO
=PND+13-21U4	connecting tee joint	QST-8	1	ks	250 7200 414 - QST-8	FESTO
=PND+13-13W1	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+13-13W2	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+13-13W3	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+13-13W4	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+13-13W5	cable 300/500V	H05VV-F 4G0,75	1	m	141 7004 404 - 4x0,75	
=PND+13-13W6	cable 300/500V	JZ-500 7x0,75	1	m	140 7002 074 - 7x0,75	HELU
=PND+13-13W7	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+13-3Y	electromagnetic valve	2VE DA	1	ks	900 5410 201 - 2VE DA G1/2" 12W	
=PND+13-4Y	electromagnetic valve	2VE DA	1	ks	900 5410 201 - 2VE DA G1/2" 12W	
=PND+13-5Y	flap valve EBRO	EBRO	1	ks	900 6010 300 - EBRO	
=PND+13-5Y1	electromagnetic valve	EBRO	1	ks	900 5410 300 - EBRO 1,6W	
=PND+13-7Y	electromagnetic valve	SCE 238A002	1	ks	900 5410 011 - SCE 238A002	ASCO
=PND+13-8Y	electromagnetic valve	SCE 238A002	1	ks	900 5410 011 - SCE 238A002	ASCO
=PND+14-1M	pump 3x400V	RV6	1	ks	191 5001 222 - RV6	
=PND+14-21P9	silver hose	PUN-8x1,25-SI	15	m	250 7000 401 - PUN-8x1,25-SI	FESTO
=PND+14-21P10	silver hose	PUN-8x1,25-SI	15	m	250 7000 401 - PUN-8x1,25-SI	FESTO
=PND+14-21P11	silver hose	PUN-8x1,25-SI	15	m	250 7000 401 - PUN-8x1,25-SI	FESTO

Parts list

TIE_F01_Zak_Prs_ALL_V01

Full designation	Name	Type number	Quantity	Unit	Part number	Manufacturer
=PND+14-2Q	power disconnecter	VBF02	1	ks	100 1202 012 - VARIO VBF02	TEL
=PND+14-2Q	block of auxiliary contacts	VZ 20	1	ks	100 1206 020 - VZ 20	TEL
=PND+14-2Q	bushing M20x1,5 B:50	M20	2	ks	150 7300 020 - priechodka M20	RITTAL
=PND+14-2Q	bushing M16x1,5 B:50	M16	1	ks	150 7300 016 - priechodka M16	RITTAL
=PND+14-3S	pressure sensor	SDE1-P2-M8	1	ks	250 6601 001 - SDE1-V1-G2-H18-L-P2-M8	FESTO
=PND+14-3S	socket with cable	SIM-M8-4G	1	ks	250 6601 071 - SIM-M8-4GD-5-PU	FESTO
=PND+14-21U5	connecting tee joint	QST-8	1	ks	250 7200 414 - QST-8	FESTO
=PND+14-14W1	cable 300/500V	H05VV-F 4G1,5	1	m	141 7004 406 - 4x1,5	
=PND+14-14W2	cable 300/500V	H05VV-F 4G1,5	1	m	141 7004 406 - 4x1,5	
=PND+14-14W3	signalling cable	LiYY 2x0,5	1	m	141 7001 302 - 2x0,5	
=PND+14-14W4	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+14-14W5	cable 300/500V	H05VV-F 3G0,75	1	m	141 7004 304 - 3x0,75	
=PND+15-15W1	cable 300/500V	JZ-500 12x0,5	1	m	140 7002 123 - 12x0,5	HELU
=PND+15-15W2	cable 300/500V	H05VV-F 5G0,75	1	m	141 7004 504 - 5x0,75	
=PND+15ER1-1	distribution cabinet, B:1	AE 1060	1	ks	150 9100 620 - AE 1060	RITTAL
=PND+15ER1-151A1	Zelio	SR3 B262 BD	1	ks	100 3100 262 - SR3 B262 BD	TEL
=PND+15ER1-151A2	Extension module Zelio	SR3 XT141 BD	1	ks	100 3101 141 - SR3 XT 141 BD	TEL
=PND+15ER1-151F1	block of contacts	GV AN11	1	ks	100 0001 011 - GV AN11	TEL
=PND+15ER1-151F1	circuit breaker LPN-4C-1	LPN-C	1	ks	120 0111 110 - LPN-4C-1	OEZ
=PND+15ER1-12G1	Converter 1x230V without filter	MM 420	1	ks	130 2210 003 - 0,37 kW	SIEMEN
=PND+15ER1-12G1	comfortable control module AOP	Panel AOP	1	ks	130 2200 031 - ovládací modul AOP	SIEMEN
=PND+15ER1-12G1	shielding holder for converter B	Schirm B	1	ks	130 2200 002 - držiak pre tienenie B	SIEMEN
=PND+15ER1-151G1	stabilised switching power supply	CP SNT 120W	1	ks	110 2100 120 - CP SNT 120W	WEI
=PND+15ER1-151H1	white indicator for LED	ZB5 AV 013	1	ks	100 1311 013 - ZB5 AV 013	TEL
=PND+15ER1-151H1	LED 24V - white	ZBV B1	1	ks	100 1303 001 - ZBV B1	TEL
=PND+15ER1-151H1	label 18x27	ZBZ 33	1	ks	100 1300 002 - ZBZ 33	TEL
=PND+15ER1-151H1	connector	ZB5 AZ009	1	ks	100 1301 009 - ZB5 AZ009	TEL
=PND+15ER1-12K1	contactor	LC1 D09	1	ks	100 1011 009 - LC1 D09 BD	TEL
=PND+15ER1-14K1	contactor	LC1 D09	1	ks	100 1011 009 - LC1 D09 BD	TEL
=PND+15ER1-12Q1	Motor overload switch	GV2-ME14	1	ks	100 0000 014 - GV2-ME14	TEL
=PND+15ER1-12Q1	block of contacts	GV AN11	1	ks	100 0001 011 - GV AN11	TEL
=PND+15ER1-14Q1	Motor overload switch	GV2-ME10	1	ks	100 0000 010 - GV2-ME10	TEL
=PND+15ER1-14Q1	block of contacts	GV AN11	1	ks	100 0001 011 - GV AN11	TEL
=PND+15ER1-151Q1	power disconnecter	VCF0	1	ks	100 1200 025 - VARIO VCF0	TEL
=PND+15ER1-151Q2	residual current circuit breaker	OLFI-10B	1	ks	120 0311 010 - OLF1-10B	OEZ
=PND+15ER1-151S1	red pin 40mm	ZB5 AS 54	1	ks	100 1310 000 - ZB5 AS 54	TEL
=PND+15ER1-151S1	label EMERGENCY STOP	ZBY 9330	1	ks	100 1300 011 - ZBY 9330	TEL
=PND+15ER1-151S1	connector	ZB5 AZ009	1	ks	100 1301 009 - ZB5 AZ009	TEL
=PND+15ER1-151S1	switching unit NC	ZBE 102	1	ks	100 1302 002 - ZBE 102	TEL
=PND+15ER1-151S2	white backlit press key for LED	ZB5 AW 313	1	ks	100 1312 313 - ZB5 AW 313	TEL

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Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A - 821 08 - BRATISLAVA - SK +421 905 609221 tisovcik.ivan@orangemail.sk IČO 14011956 - IČ DPH SK1020182207	Pneumatic conveying. 9003. Koncový zákazník	Parts list	Creator V00 01.06.2010 Ing. Tisovčík Ivan	= 0000
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Parts list

TIE_F01_Zak_Prs_ALL_V01

Full designation	Name	Type number	Quantity	Unit	Part number	Manufacturer
=PND+15ER1-151S2	LED 24V - white	ZBV B1	1	ks	100 1303 001 - ZBV B1	TEL
=PND+15ER1-151S2	label 18x27	ZBZ 33	1	ks	100 1300 002 - ZBZ 33	TEL
=PND+15ER1-151S2	connector	ZB5 AZ009	1	ks	100 1301 009 - ZB5 AZ009	TEL
=PND+15ER1-151S2	switching unit NO	ZBE 101	1	ks	100 1302 001 - ZBE 101	TEL
=PND+15ER1-12U1	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-12U2	bushing M16x1,5 B:50	M16	1	ks	150 7300 016 - priechodka M16	RITTAL
=PND+15ER1-13U1	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U2	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U3	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U4	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U5	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-13U6	bushing M25x1,5 B:25	M25	1	ks	150 7300 025 - priechodka M25	RITTAL
=PND+15ER1-14U1	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-14U2	bushing M16x1,5 B:50	M16	1	ks	150 7300 016 - priechodka M16	RITTAL
=PND+15ER1-14U3	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-14U4	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-14U5	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-15U1	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-15U2	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151U1	perforated tray PVC	VKD 25x37,5	400	mm	900 9190 002 - 25x37,5	Nowaplast
=PND+15ER1-151U1	screw for metal plates	5,5x13 - DIN 7981C	5	ks	800 9751 013 - 5,5x13	
=PND+15ER1-151U1	big washer	M5 - DIN 9021	5	ks	800 9705 801 - DIN 9021	
=PND+15ER1-151U1	mounting reinforcement, B:20	2326.000	1	ks	150 9100 002 - SZ 2326.000	RITTAL
=PND+15ER1-151U1	screw for metal plates	4,8x9,5 - DIN 7981C	2	ks	800 9750 009 - 4,8x9,5	
=PND+15ER1-151U1	serrated lock washer	M4 - DIN 6798	2	ks	800 9704 805 - DIN 6798	
=PND+15ER1-151U2	perforated tray PVC	VKD 25x37,5	400	mm	900 9190 002 - 25x37,5	Nowaplast
=PND+15ER1-151U2	screw for metal plates	5,5x13 - DIN 7981C	5	ks	800 9751 013 - 5,5x13	
=PND+15ER1-151U2	big washer	M5 - DIN 9021	5	ks	800 9705 801 - DIN 9021	
=PND+15ER1-151U2	mounting reinforcement, B:20	2326.000	1	ks	150 9100 002 - SZ 2326.000	RITTAL
=PND+15ER1-151U2	screw for metal plates	4,8x9,5 - DIN 7981C	2	ks	800 9750 009 - 4,8x9,5	
=PND+15ER1-151U2	serrated lock washer	M4 - DIN 6798	2	ks	800 9704 805 - DIN 6798	
=PND+15ER1-151U3	perforated tray PVC	VKD 37,5x50	550	mm	900 9190 004 - 37,5x50	Nowaplast
=PND+15ER1-151U3	self-drilling screw TEX	4,2x16 - DIN 7504-N	6	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U3	big washer	M4 - DIN 9021	6	ks	800 9704 801 - DIN 9021	
=PND+15ER1-151U4	perforated DIN bar	TS 35x7,5	550	mm	900 9191 035 - TS 35x7,5	WEI
=PND+15ER1-151U4	self-drilling screw TEX	4,2x16 - DIN 7504-N	6	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U4	big washer	M4 - DIN 9021	6	ks	800 9704 801 - DIN 9021	
=PND+15ER1-151U5	perforated DIN bar	TS 35x7,5	400	mm	900 9191 035 - TS 35x7,5	WEI
=PND+15ER1-151U5	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U5	big washer	M4 - DIN 9021	5	ks	800 9704 801 - DIN 9021	

Parts list

TIE_F01_Zak_Prs_ALL_V01

Full designation	Name	Type number	Quantity	Unit	Part number	Manufacturer
=PND+15ER1-151U6	perforated DIN bar	TS 35x7,5	400	mm	900 9191 035 - TS 35x7,5	WEI
=PND+15ER1-151U6	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U6	big washer	M4 - DIN 9021	5	ks	800 9704 801 - DIN 9021	
=PND+15ER1-151U7	perforated tray PVC	VKD 37,5x50	470	mm	900 9190 004 - 37,5x50	Nowaplast
=PND+15ER1-151U7	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U7	big washer	M4 - DIN 9021	5	ks	800 9704 801 - DIN 9021	
=PND+15ER1-151U8	perforated tray PVC	VKD 37,5x50	400	mm	900 9190 004 - 37,5x50	Nowaplast
=PND+15ER1-151U8	self-drilling screw TEX	4,2x16 - DIN 7504-N	5	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U8	big washer	M4 - DIN 9021	5	ks	800 9704 801 - DIN 9021	
=PND+15ER1-151U9	perforated tray PVC	VKD 37,5x50	340	mm	900 9190 004 - 37,5x50	Nowaplast
=PND+15ER1-151U9	self-drilling screw TEX	4,2x16 - DIN 7504-N	4	ks	800 9748 516 - 4,2x16	
=PND+15ER1-151U9	big washer	M4 - DIN 9021	4	ks	800 9704 801 - DIN 9021	
=PND+15ER1-151U10	isolated bridge N7 blue	N7	1	ks	120 4100 007 - Mostík N7	OEZ
=PND+15ER1-151U11	isolated bridge PE7 green	PE7	1	ks	120 4100 107 - Mostík PE7	OEZ
=PND+15ER1-151U12	bushing M25x1,5 B:25	M25	1	ks	150 7300 025 - priechodka M25	RITTAL
=PND+15ER1-151U13	Bus bar – jumper bar	GV2-G254	1	ks	100 0002 002 - GV2-G254	TEL
=PND+15ER1-151U14	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151U15	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151U16	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15ER1-151V1	safety module	XPS AC 5121	1	ks	100 6401 101 - XPS AC 5121	TEL
=PND+15ER1-151W1	cable Cu	1-CYKY	1	m	149 7005 008 - 5x4	KABLO-E
=PND+15ER1-151W2	cable 300/500V	H05VV-F 2X0,75	1	m	141 7016 024 - 2x0,75	
=PND+15ER1-151X1	horizontal marking DEK5 "U,V,W,N,PE"	DEK5 "U,V,W,N,PE"	5	ks	110 4090 030 - DEK5 "U,V,W,N,PE"	WEI
=PND+15ER1-151X1	end clamp WEW 35/2	WEW 35/2	2	ks	110 4080 001 - WEW 35/2	WEI
=PND+15ER1-151X1	white covering	WAD 8 biely	1	ks	110 4081 021 - WAD 8 biely	WEI
=PND+15ER1-151X1	rail-mounted terminal - 4 mm²	WDU	3	ks	110 4000 004 - WDU 4	WEI
=PND+15ER1-151X1	yellow covering with a lightning symbol	WAD 5 žltý s bleskom	3	ks	110 4081 002 - WAD 5 žltý	WEI
=PND+15ER1-151X1	rail-mounted terminal - 4 mm²	WDU-BL	1	ks	110 4001 004 - WDU 4 BL	WEI
=PND+15ER1-151X1	protective rail-mounted terminal PE - 4 mm²	WPE	1	ks	110 4002 004 - WPE 4	WEI
=PND+15ER1-151X2	horizontal marking DEK5 "1-50"	DEK5 "1-50"	50	ks	110 4091 001 - DEK5 "1-50"	WEI
=PND+15ER1-151X2	end clamp WEW 35/2	WEW 35/2	1	ks	110 4080 001 - WEW 35/2	WEI
=PND+15ER1-151X2	white covering	WAD 8 biely	1	ks	110 4081 021 - WAD 8 biely	WEI
=PND+15ER1-151X2	rail-mounted terminal - 2,5 mm²	WDU	6	ks	110 4000 002 - WDU 2,5	WEI
=PND+15ER1-151X2	protective rail-mounted terminal PE - 2,5 mm²	WPE	3	ks	110 4002 002 - WPE 2,5	WEI
=PND+15ER1-151X2	horizontal marking DEK5 "PE"	DEK5 "PE"	2	ks	110 4090 001 - DEK5 "PE"	WEI
=PND+15ER1-151X2	horizontal marking DEK5 "SH"	DEK5 "SH"	1	ks	110 4090 004 - DEK5 "SH"	WEI
=PND+15ER1-151X2	side board for WDU	WAP 2,5-10	1	ks	110 4082 000 - ku WDU 2,5	WEI
=PND+15ER1-151X2	small end clamp EW 35	EW 35	1	ks	110 4080 010 - EW 35	WEI
=PND+15ER1-151X3	end clamp WEW 35/2	WEW 35/2	1	ks	110 4080 001 - WEW 35/2	WEI
=PND+15ER1-151X3	white covering	WAD 8 biely	1	ks	110 4081 021 - WAD 8 biely	WEI

Parts list

TIE_F01_Zak_Prs_ALL_V01

Full designation	Name	Type number	Quantity	Unit	Part number	Manufacturer
=PND+15ER1-151X3	basic module ZIA 1,5/4L-PE	ZIA4-PE	1	ks	110 4010 008 - ZIA 1,5/4L-PE	WEI
=PND+15ER1-151X3	green / yellow terminal. ZVL 1,5 PE	ZVL-PE	15	ks	110 4010 040 - ZVL 1,5 PE	WEI
=PND+15ER1-151X3	blue terminal ZVL 1,5 BL	ZVL-BL	15	ks	110 4010 036 - ZVL 1,5 BL	WEI
=PND+15ER1-151X3	brown terminal ZVL 1,5 BR	ZVL-BR	15	ks	110 4010 037 - ZVL 1,5 BR	WEI
=PND+15ER1-151X3	basic module ZIA 1,5/4L-1S	ZIA4	14	ks	110 4010 004 - ZIA 1,5/4L-1S	WEI
=PND+15ER1-151X3	side board for ZIA 1,5/4L	ZAP/TW - ZIA 1,5/4L	1	ks	110 4082 110 - ku ZIA 1,5/4L	WEI
=PND+15ER1-151X3	small end clamp EW 35	EW 35	1	ks	110 4080 010 - EW 35	WEI
=PND+15ER1-151X4	end clamp WEW 35/2	WEW 35/2	2	ks	110 4080 001 - WEW 35/2	WEI
=PND+15ER1-151X4	white covering	WAD 8 biely	1	ks	110 4081 021 - WAD 8 biely	WEI
=PND+15ER1-151X4	double level terminal WDK 2,5N	WDK-N	9	ks	110 4020 001 - WDK 2,5N	WEI
=PND+15ER1-151X4	side board for WDK 2,5N	WAP WDK 2,5N	1	ks	110 4082 010 - ku WDK 2,5N	WEI
=PND+15ER1-151X6	socket for DIN bar	ZSE-03	1	ks	120 4900 010 - ZSE-03	OEZ
=PND+15ER1-151X9	end clamp WEW 35/2	WEW 35/2	2	ks	110 4080 001 - WEW 35/2	WEI
=PND+15ER1-151X9	white covering	WAD 8 biely	1	ks	110 4081 021 - WAD 8 biely	WEI
=PND+15ER1-151X9	protective rail-mounted terminal PE - 2,5 mm ²	WPE	1	ks	110 4002 002 - WPE 2,5	WEI
=PND+15ER1-151X9	horizontal marking DEK5 "PE"	DEK5 "PE"	1	ks	110 4090 001 - DEK5 "PE"	WEI
=PND+15ER1-151X9	double level terminal WDK 2,5 ZQV	WDK-ZQV	4	ks	110 4021 001 - WDK 2,5V ZQV	WEI
=PND+15ER1-151X9	low changer 4P	ZQV 2,5N/4	1	ks	110 4070 124 - ZQV 2,5N/4	WEI
=PND+15ER1-151X9	low changer 4P	ZQV 2,5N/4	1	ks	110 4070 224 - ZQV 2,5N/4	WEI
=PND+15ER1-151X9	side board for WDK 2,5	WAP WDK 2,5	1	ks	110 4082 011 - ku WDK 2,5	WEI
=PND+15E1-1	empty box for EMERGENCY-OFF head	XAL K01	1	ks	100 1340 001 - XAL K01	TEL
=PND+15E1-1	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15E1-S1	red pin 40mm	ZB5 AS 54	1	ks	100 1310 000 - ZB5 AS 54	TEL
=PND+15E1-S1	switching unit NC	ZEN L1121	1	ks	100 1302 012 - ZEN L1121	TEL
=PND+15E2-1	empty box for 4 heads	XAL D04	1	ks	100 1340 014 - XAL D04	TEL
=PND+15E2-1	bushing M20x1,5 B:50	M20	1	ks	150 7300 020 - priechodka M20	RITTAL
=PND+15E2-H1	yellow indicator for LED	ZB5 AV 053	1	ks	100 1311 053 - ZB5 AV 053	TEL
=PND+15E2-H1	LED 24V - yellow	ZAL VB5	1	ks	100 1305 005 - ZAL VB5	TEL
=PND+15E2-H1	label 8x27	ZBZ 32	1	ks	100 1300 001 - ZBZ 32	TEL
=PND+15E2-S1	white backlit press key for LED	ZB5 AW 313	1	ks	100 1312 313 - ZB5 AW 313	TEL
=PND+15E2-S1	LED 24V - white	ZAL VB1	1	ks	100 1305 001 - ZAL VB1	TEL
=PND+15E2-S1	label 8x27	ZBZ 32	1	ks	100 1300 001 - ZBZ 32	TEL
=PND+15E2-S1	switching unit NO	ZEN L1111	1	ks	100 1302 011 - ZEN L1111	TEL
=PND+15E2-S2	press key without a button	ZB5 AA	1	ks	100 1320 000 - ZB5 AA0	TEL
=PND+15E2-S2	black button	ZBA 2	1	ks	100 1320 002 - ZBA 2	TEL
=PND+15E2-S2	label 8x27	ZBZ 32	1	ks	100 1300 001 - ZBZ 32	TEL
=PND+15E2-S2	switching unit NC	ZEN L1121	1	ks	100 1302 012 - ZEN L1121	TEL
=PND+15E2-S3	rotary switch	ZB5 AD2	1	ks	100 1322 022 - ZB5 AD2	TEL
=PND+15E2-S3	label 8x27	ZBZ 32	1	ks	100 1300 001 - ZBZ 32	TEL
=PND+15E2-S3	switching unit NO	ZEN L1111	1	ks	100 1302 011 - ZEN L1111	TEL

Ing. Tisovčík Ivan - Elektromechanik Klincová 37/A - 821 08 - BRATISLAVA - SK +421 905 609221 tisovcik.ivan@orangemail.sk IČO 14011956 - IČ DPH SK1020182207	Pneumatic conveying. 9003. Koncový zákazník	Parts list	Creator V00 01.06.2010 Ing. Tisovčík Ivan	= 0000
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