

GANNOMat

GANNER

Hermann Ganner Straße 1

A-6410 Telfs

ProTec

Description: axis controlled drilling and routing machine

Execution: Working width 1000mm, drill motor 1.5kW, 7 vertical spindle in Y-axis,
6 vertical spindle in x-axis, 2 horizontal spindle in Y-axis,
1 nut saw in Y-axis and 1 horizontal spindle in X-axis
1 routing aggregate 5.5kW with tool change

Accessories: 3-fold tool changer

Project data

Project name: 0571A030B V01.09

Projectnumber: 0571A030B 405 V01.09

Drawing-no.: 0571-0170-V200

Reviser: WH

Date: 06.10.16

Protection class: IP 54

Norm: DIN 61346

Technical data

Power supply

12kVA
400 3/N/PE ~50Hz
17A

Control voltage: 24VDC

Fuse: 32A

Power cable: YMM-J 5x6mm²

Pressure: 0,8MPa

ProTec

directory of PROTEC 0571

Nr.	Datei	Projet page	comments	Datum
1	0571_Deck.0001.wsCSD	1	cover sheet	07.07.15
2	0571_I.0001.wsSML	2	directory	07.07.15
3	0571_I.0002.wsSML	3	directory	07.07.15
4	0571_I.0003.wsSML	4	directory	07.07.15
5	0571.0001.wsELD	5	power supply	07.07.15
6	0571.0004.wsELD	6	power supply servo drive	07.07.15
7	0571.0005.wsELD	7	servo drive X-axis	07.07.15
8	0571.0006.wsELD	8	servo drive Y-axis	07.07.15
9	0571.0007.wsELD	9	servo drive Z-axis	07.07.15
10	0571.0008.wsELD	10	servo drive routing motor	07.07.15
11	0571.0012.wsELD	11	lubrication	07.07.15
12	0571.0014.wsELD	12	power supply control	07.07.15
13	0571.0016.wsELD	13	safety door	07.07.15
14	0571.0017.wsELD	14	emergency stop circuit	07.07.15
15	0571.0020.wsELD	15	power supply monitor and PC	07.07.15
16	0571.0022.wsELD	16	summary digital inputs 24VDC	07.07.15
17	0571.0023.wsELD	17	summary digital inputs 24VDC	07.07.15
18	0571.0025.wsELD	18	summary digital outputs emergency stop	07.07.15
19	0571.0027.wsELD	19	summary digital outputs emergency stop	07.07.15
20	0571.0029.wsELD	20	summary dig. outputs delay emerg. stop	07.07.15
21	0571.0031.wsELD	21	PLC-inputs cabinet	07.07.15
22	0571.0032.wsELD	22	PLC-inputs cabinet	07.07.15
23	0571.0034.wsELD	23	PLC-inputs control panel	07.07.15
24	0571.0036.wsELD	24	PLC-inputs machine left	07.07.15
25	0571.0041.wsELD	25	PLC-inputs machine right	07.07.15
26	0571.0042.wsELD	26	PLC-inputs machine right	07.07.15
27	0571.0043.wsELD	27	PLC-inputs machine right	07.07.15
28	0571.0045.wsELD	28	PLC-inputs drilling aggregate	07.07.15
29	0571.0046.wsELD	29	PLC-inputs drilling aggregate	07.07.15
30	0571.0049.wsELD	30	analog PLC-inputs	07.07.15
31	0571.0051.wsELD	31	relays	07.07.15
32	0571.0053.wsELD	32	power relays	07.07.15
33	0571.0055.wsELD	33	power relays	07.07.15
34	0571.0056.wsELD	34	valves machine left	07.07.15
35	0571.0057.wsELD	35	valves machine left	07.07.15

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		Datum	06.10.16	PROTEC 0571	GANNOMat	directory	Project-no.: 0571A030B 405 V01.09	=
		edit.	WH		GANNER		Part list 0571-0170-V200	+
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 1
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 3

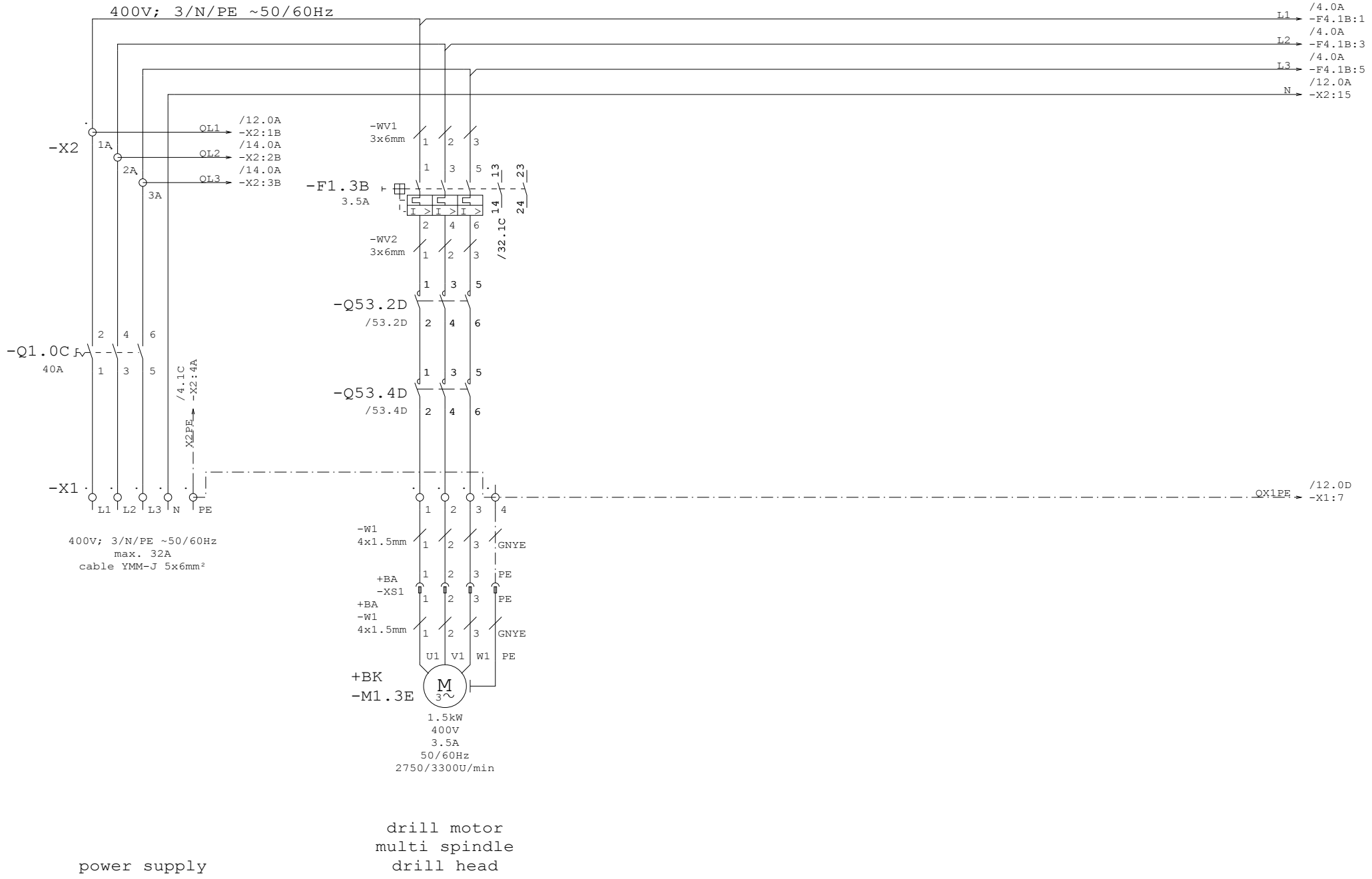
ProTec

directory of PROTEC 0571

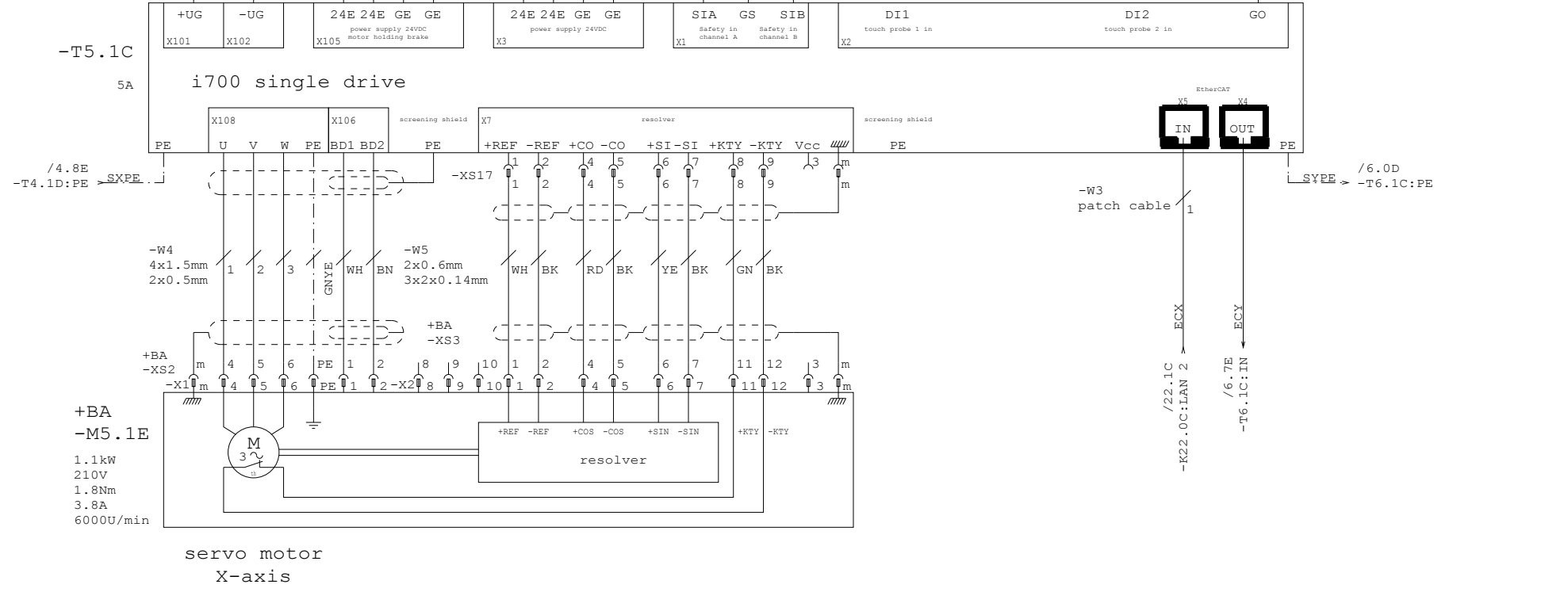
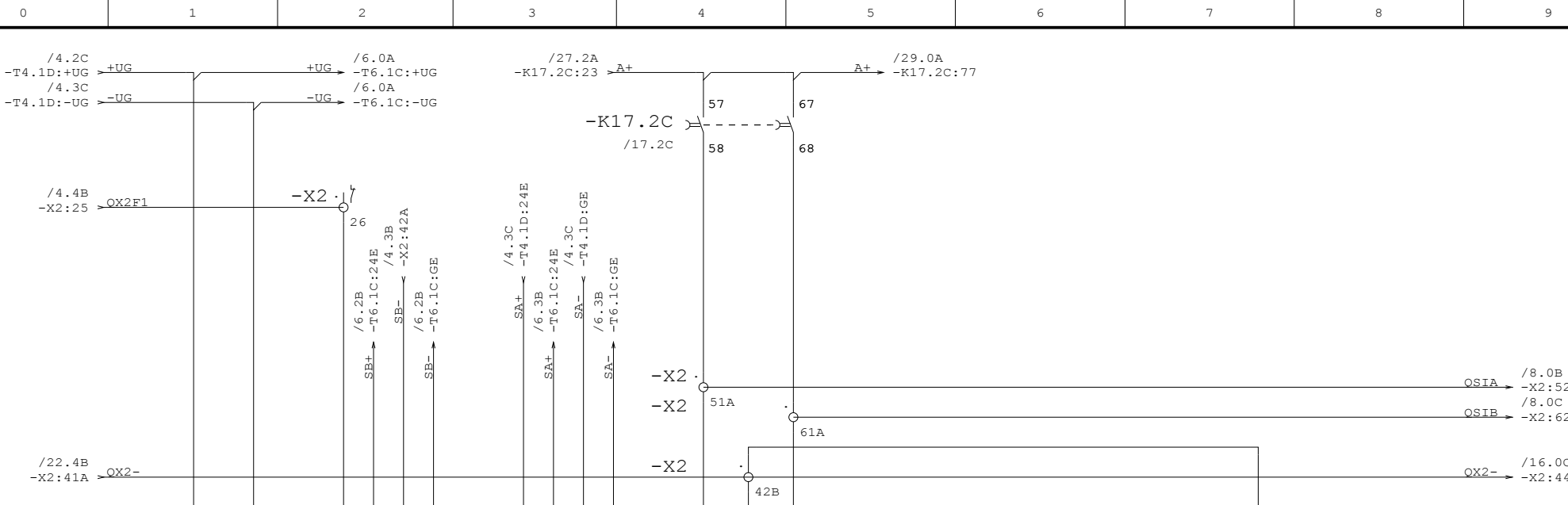
Nr.	Datei	Projet page	comments	Datum
36	0571.0059.wsELD	36	valves machine right	07.07.15
37	0571.0060.wsELD	37	valves machine right	07.07.15
38	0571.0061.wsELD	38	valves machine right	07.07.15
39	0571.0062.wsELD	39	valves drilling aggregate	07.07.15
40	0571.0063.wsELD	40	valves drilling aggregate	07.07.15
41	0571.0064.wsELD	41	valves drilling aggregate	07.07.15
42	0571.0065.wsELD	42	valves drilling aggregate	07.07.15
43	0571.0066.wsELD	43	valves drilling aggregate	07.07.15
44	0571.0070.wsELD	44	accessories	07.07.15
45	0571.0150.wsELD	45	pneumatic diagram gripper	07.07.15
46	0571.0151.wsELD	46	pneumatic diagram clamps	07.07.15
47	0571.0152.wsELD	47	pneumatic diagram air jet and stops	07.07.15
48	0571.0153.wsELD	48	pneumatic diagram clamping bar	07.07.15
49	0571.0155.wsELD	49	pneumatic diagram drill head	07.07.15
50	0571.0156.wsELD	50	pneumatic diagram drill head	07.07.15
51	0571.0157.wsELD	51	pneumatic diagram drill head	07.07.15
52	0571.0158.wsELD	52	pneumatic diagram drill head	07.07.15
53	0571.0159.wsELD	53	pneumatic diagram drill head	07.07.15
54	0571.0162.wsELD	54	pneumatic diagram drilling + routing	07.07.15
55	0571.0163.wsELD	55	pneumatic diagram drilling + routing	07.07.15
56	0571_K.0001.wsTEC	56	terminal diagram: =ABFM+SS-X1	07.07.15
57	0571_K.0002.wsTEC	57	terminal diagram: =ABFM+SS-X1	07.07.15
58	0571_K.0003.wsTEC	58	terminal diagram: =ABFM+SS-X1	07.07.15
59	0571_K.0004.wsTEC	59	terminal diagram: =ABFM+SS-X2	07.07.15
60	0571_K.0005.wsTEC	60	terminal diagram: =ABFM+SS-X2	07.07.15
61	0571_Klist.0001.wsCBL	179	cable list	07.07.15
62	0571_Klist.0002.wsCBL	180	cable list	07.07.15
63	0571_Klist.0003.wsCBL	181	cable list	07.07.15
64	0571_MAT.0001.wsMAL	287	part list	07.07.15
65	0571_MAT.0002.wsMAL	288	part list	07.07.15
66	0571_MAT.0003.wsMAL	289	part list	07.07.15
67	0571_MAT.0004.wsMAL	290	part list	07.07.15
68	0571_MAT.0005.wsMAL	291	part list	07.07.15
69	0571_MAT.0006.wsMAL	292	part list	07.07.15
70	0571_MAT.0007.wsMAL	293	part list	07.07.15

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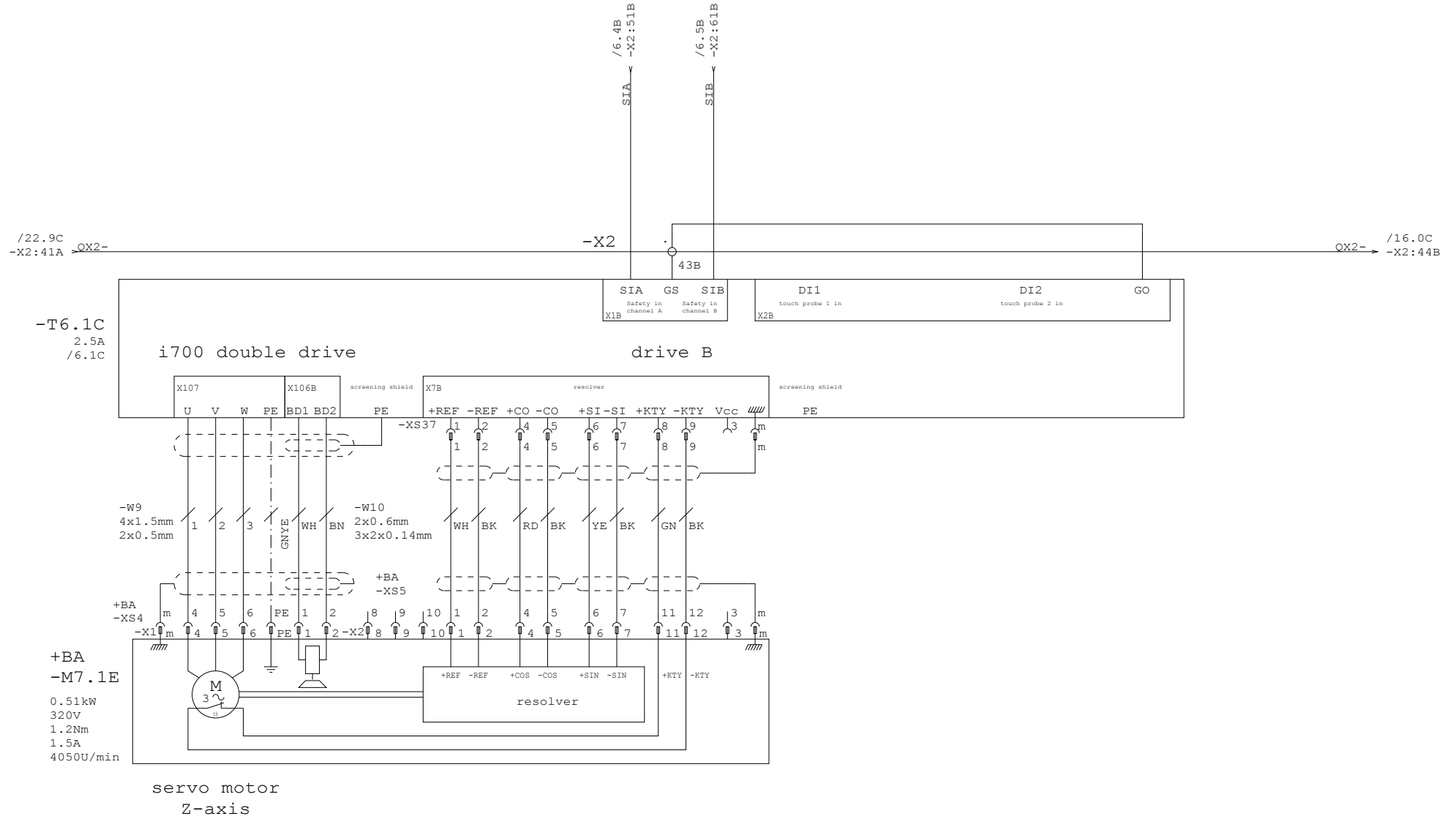
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		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 2
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 3



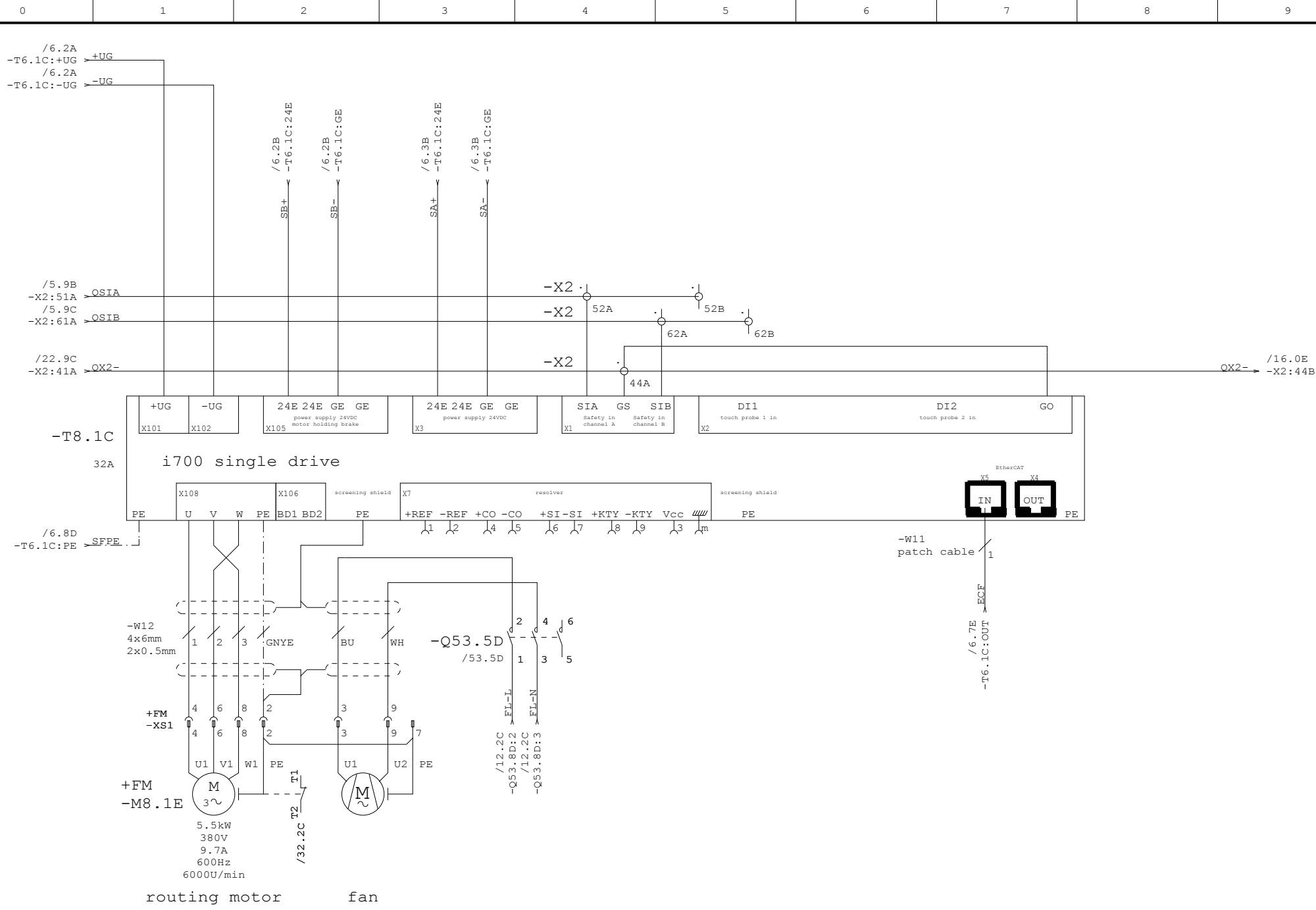
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		Gepr.		machine number			Project name	Blatt 1
change	Datum	Name	Norm	DIN 61346	252.527 -		0571A030B V01.09	von 163



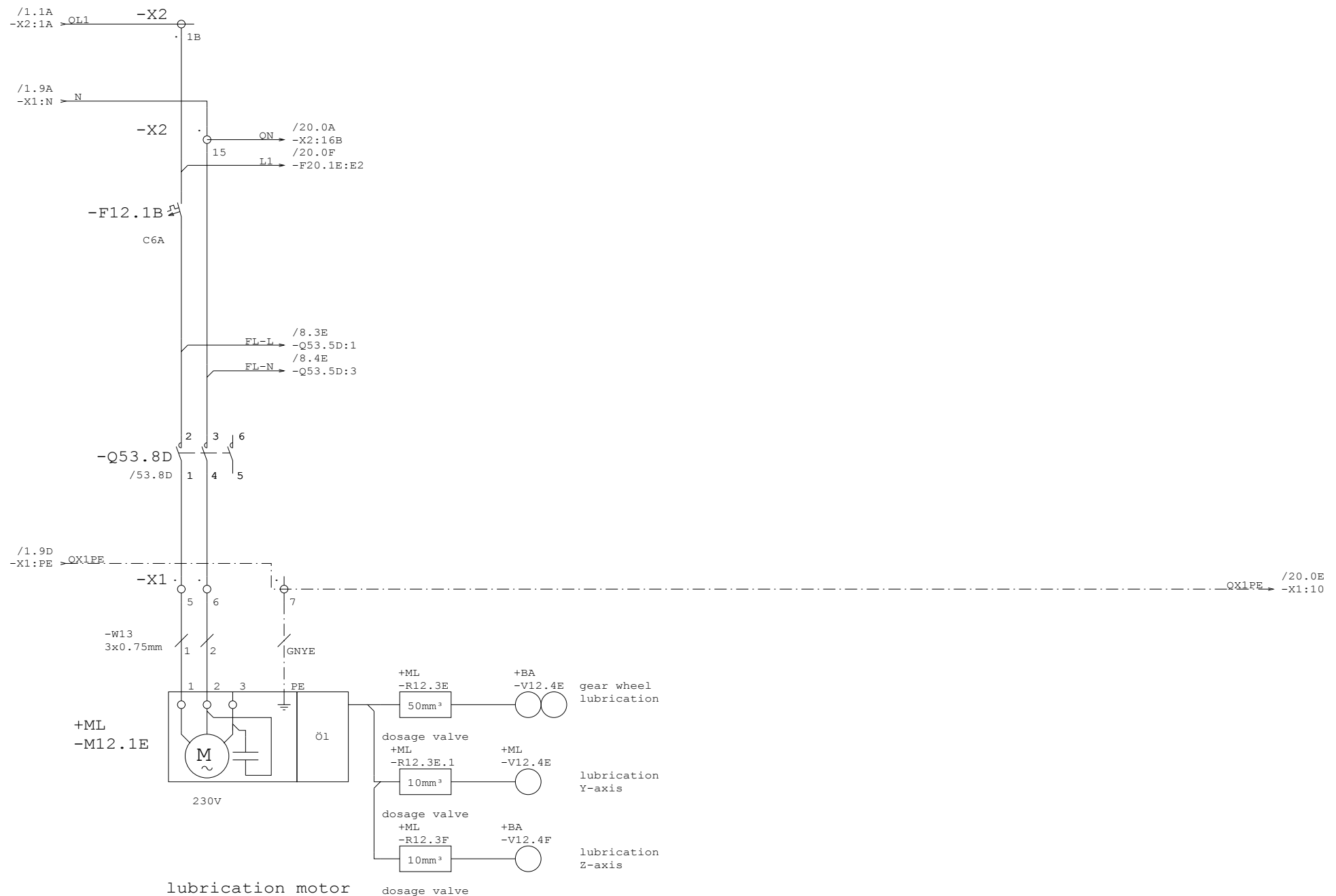
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change	Datum	Name	DIN 61346	252.527 -	A-6410 Telfs		von 163



		Datum	06.10.16	PROTEC 0571	GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	servo drive Z-axis	Project-no.: 0571A030B 405 V01.09	=ABFM
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		Gepr.		machine number			Project name	Blatt 7
change	Datum	Name	DIN 61346	252.527 -			0571A030B V01.09	von 163



	Datum	06.10.16	PROTEC 0571	GANNOMAT	servo drive routing motor	Project-no.: 0571A030B 405 V01.09	=ABFM
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	Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 8
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs	0571A030B V01.09	von 163



lubrication motor dosage valve

		Datum	06.10.16	PROTEC 0571	lubrication	Project-no.:	0571A030B 405 V01.09	=ABFM
		edit.	WH			Part list	0571-0170-V200	+SS
		Gepr.		machine number	GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	Project name		Blatt 12
change	Datum	Name	Norm	DIN 61346		252.527 -	0571A030B V01.09	

0 1 2 3 4 5 6 7 8 9

A

B

C

D

E

F

A

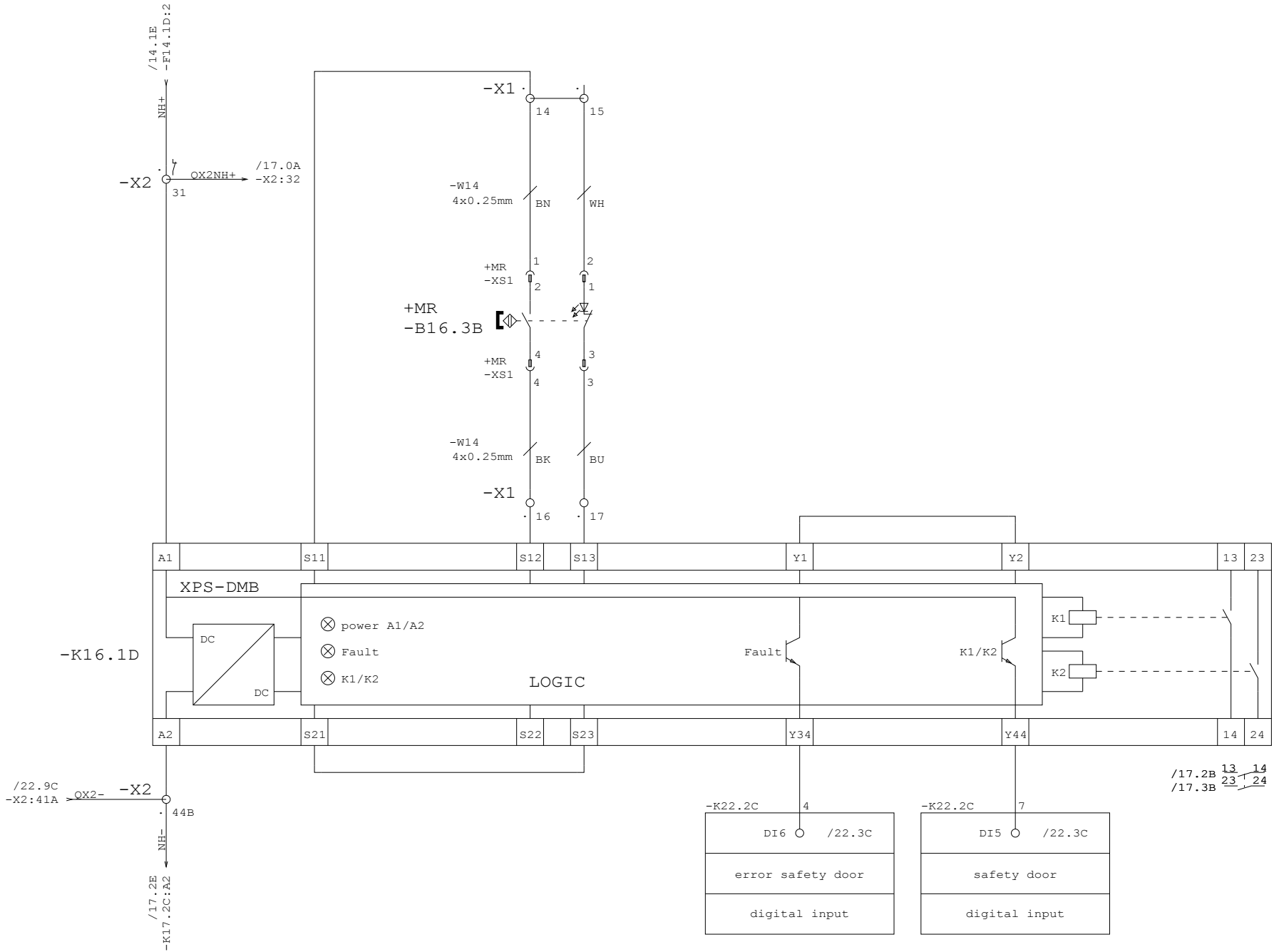
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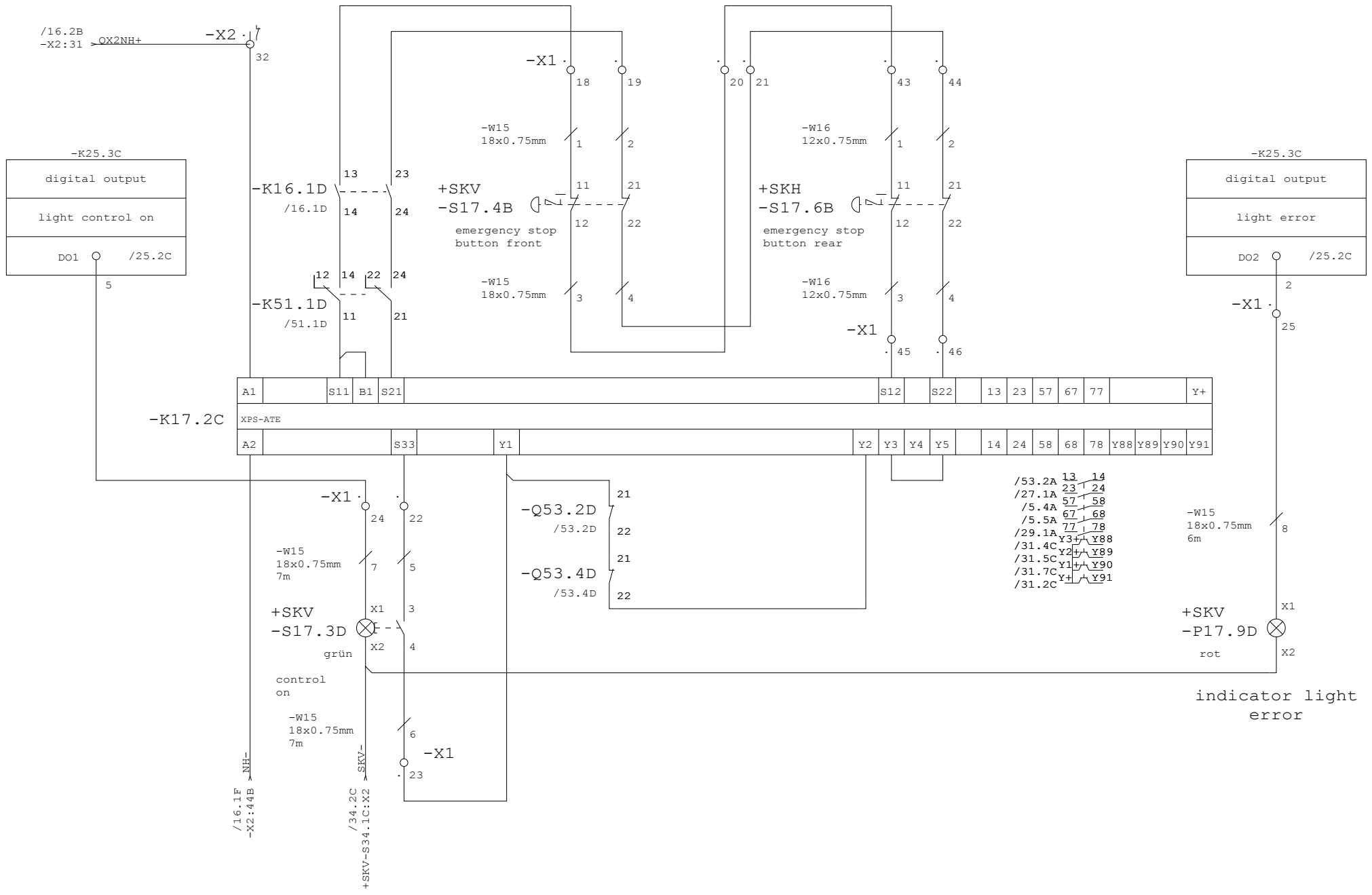
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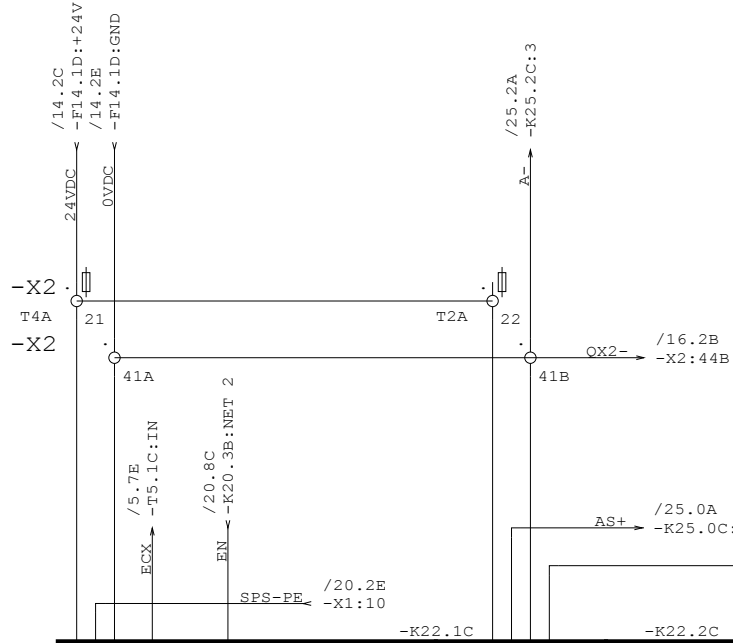
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	Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 16	
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163

0 1 2 3 4 5 6 7 8 9



		Datum	06.10.16	PROTEC 0571		emergency stop circuit	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
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change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs		von 163

-K22.0C

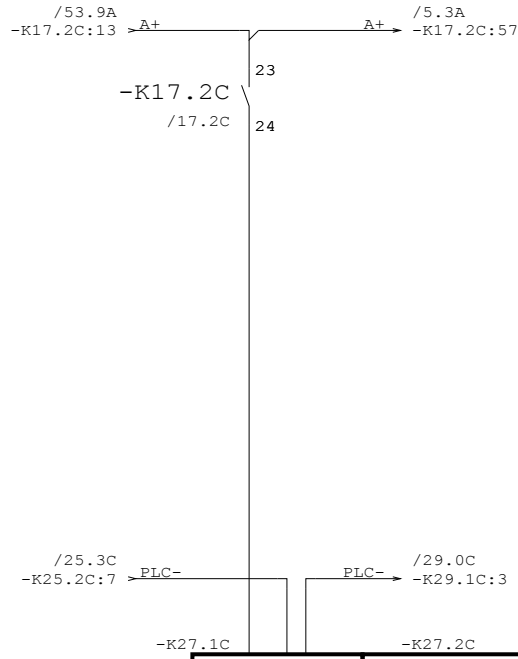


Controller 3200 C		EPM-S701		EPM-S701		EPM-S910		EPM-S911		EPM-S202		EPM-S202		EPM-S400		EPM-S202	
LENZE		LENZE		LENZE		LENZE		LENZE		LENZE		LENZE		LENZE		LENZE	
U	PE	1	NC	1	NC	1	NC	1	NC	1	NC	1	NC	1	NC	1	NC
PE	0V	5	24V	5	24V	5	24V	5	24V	5	24V	5	24V	5	24V	5	24V
X1	X2	6	24V	6	24V	6	24V	6	24V	6	24V	6	24V	6	24V	6	24V
X3	X4	7	0V	7	0V	7	0V	7	0V	7	0V	7	0V	7	0V	7	0V
X5	X6	8	NC	8	NC	8	NC	8	NC	8	NC	8	NC	8	NC	8	NC
Power		PWR IO		PWR IO		PWR IO		PWR IO		PWR IO		PWR IO		PWR IO		PWR IO	
Error		MF		MF		MF		MF		MF		MF		MF		MF	
status 1																	
status 2																	
Reset																	
SD-card																	
I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A		I/O power supply module 24VDC/10A	
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Datum	06.10.16	PROTEC	0571	summary digital inputs 24VDC	Project-no.: 0571A030B 405 V01.09	Part list 0571-0170-V200	=ABFM
edit.	WH	machine number 252.527 -					
change	Datum	Name	Norm	DIN 61346	Hermann Ganner Straße 1 A-6410 Telfs		Blatt 22 von 163

-K23.0C	
■ RUN	MF ■
EPM-S201	
digitales input modul 4-channels 24VDC	
LENZE	
1 DI0	/42.8E magzine ri. cyl. front
2 24VDC	
5 DI1	/43.1E router in magazine 1
6 24VDC	
3 DI2	/43.2E router in magazine 2
4 24VDC	
7 DI3	/43.4E router in magazine 3
8 24VDC	

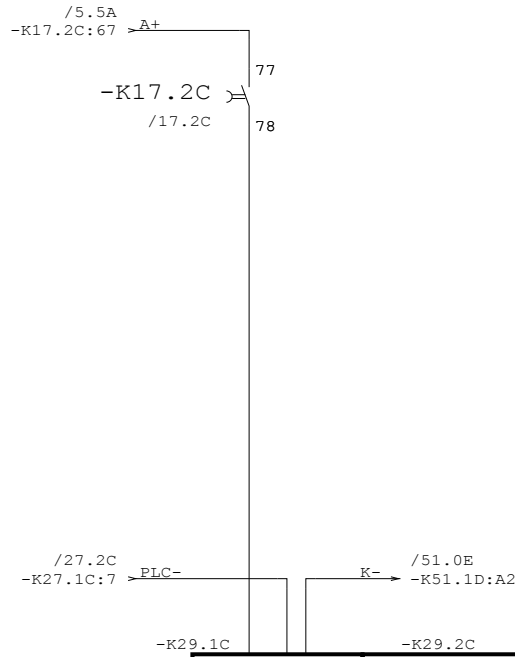
		Datum	06.10.16	PROTEC 0571	GANNOMAT	summary digital inputs	Project-no.: 0571A030B 405 V01.09	=ABFM
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		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 23
change	Datum	Name	Norm	DIN 61346	252.527 -		0571A030B V01.09	von 163
					A-6410 Telfs			



1	5	6	3	8	<input type="checkbox"/> RUN	<input type="checkbox"/> MF	
NC	NC	24V	24V	OV	OV	NC	
EPM-S302							
digital output modul							
8-channels							
24VDC/0.5A							
EPM-S701							
LENZE							
<input type="checkbox"/> PWR IO							
<input type="checkbox"/> MF							
I/O power supply module 24VDC/10A							
1	DO0	/53.4B	drill motor	4	DO6	/60.4A	counter pressure device
5	DO1	/56.1A	pcs clamp pre pressure	8	DO7	/57.1A	stop rear
2	DO2	/56.3A	workpiece clamping				
6	DO3	/56.4A	blowing gripper				
3	DO4	/56.5A	stop front				
7	DO5	/56.7A	air jet table				

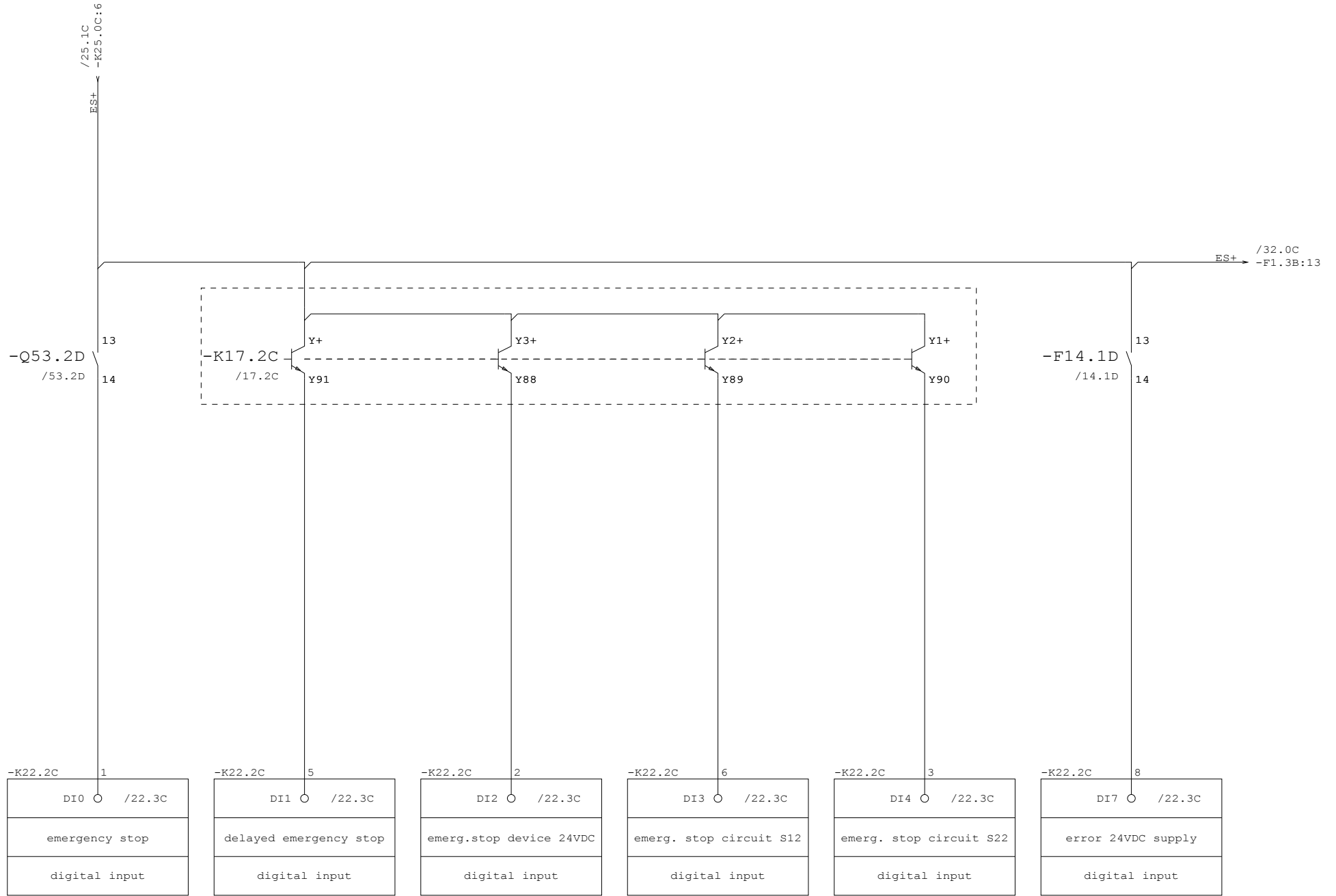
		Datum	06.10.16	PROTEC 0571	summary digital outputs emergency stop	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH			Part list 0571-0170-V200	+SS
		Gepr.		machine number		Project name	Blatt 27
change	Datum	Name	Norm	DIN 61346	252.527 -	0571A030B V01.09	von 163

GANNOMAT
GANNER
Hermann Ganner Straße 1
A-6410 Telfs

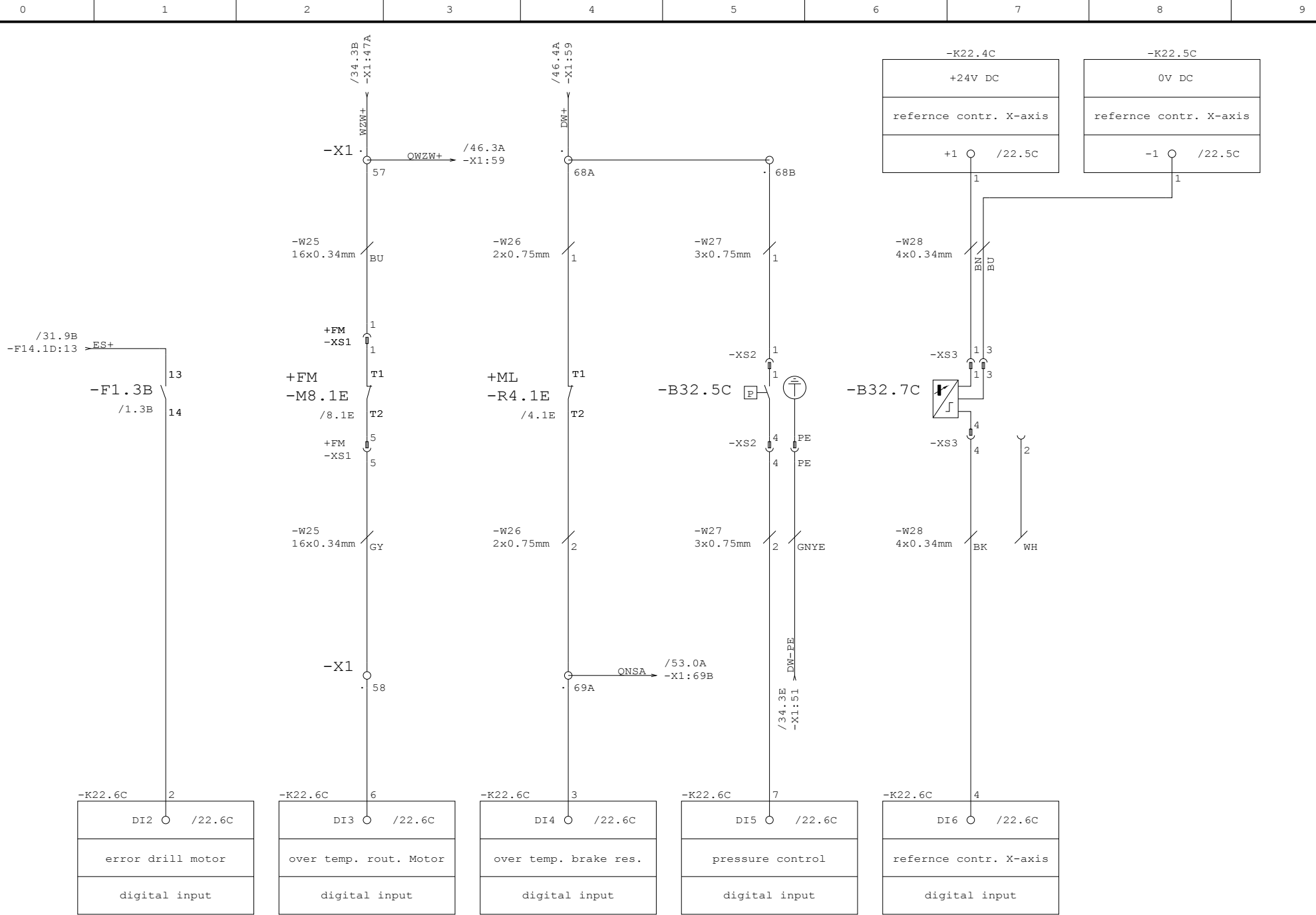


1		2		3		4		5		6		7		8	
NC	NC	24V	24V	OV	OV	NC	NC	NC	NC	24V	24V	OV	OV	NC	NC
EPM-S701				EPM-S302				EPM-S301							
digital output modul 8-channels 24VDC/0.5A				digital output modul 8-channels 24VDC/0.5A				digital output modul 4-channels 24VDC/0.5A							
LENZE				LENZE				LENZE							
■ PWR IO ■ MF				/59.1A clamp front pre press. /59.3A clamp 1 front main pr. /59.4A clamp 2 front main pr. /59.5A clamp 3 front main pr. /59.7A clamp rear pre press. /59.8A clamp 1 rear main pr. /60.1A clamp 2 rear main pr. /60.3A clamp 3 rear main pr.				/60.7A magazine le. cyl. forward /60.8A magazine le. cyl. return /61.1A magazine ri. cyl. forward /61.3A magazine ri. cyl. return							
I/O power supply module 24VDC/10A				1 DO0 5 DO1 2 DO2 6 DO3 3 DO4 7 DO5 4 DO6 8 DO7				1 DO0 2 GND 5 DO1 6 GND 3 DO2 4 GND 7 DO3 8 GND							

Datum		06.10.16		PROTEC 0571		summary dig. outputs delay emerg. stop		Project-no.: 0571A030B 405 V01.09		=ABFM	
edit.		WH						Part list 0571-0170-V200		+SS	
Gepr.				machine number		Hermann Ganner Straße 1		Project name		Blatt 29	
change		Datum		Name		252.527 -		0571A030B V01.09		von 163	
Norm		DIN 61346				A-6410 Telfs					



		Datum	06.10.16	PROTEC 0571		PLC-inputs cabinet	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number			Project name	Blatt 31
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163

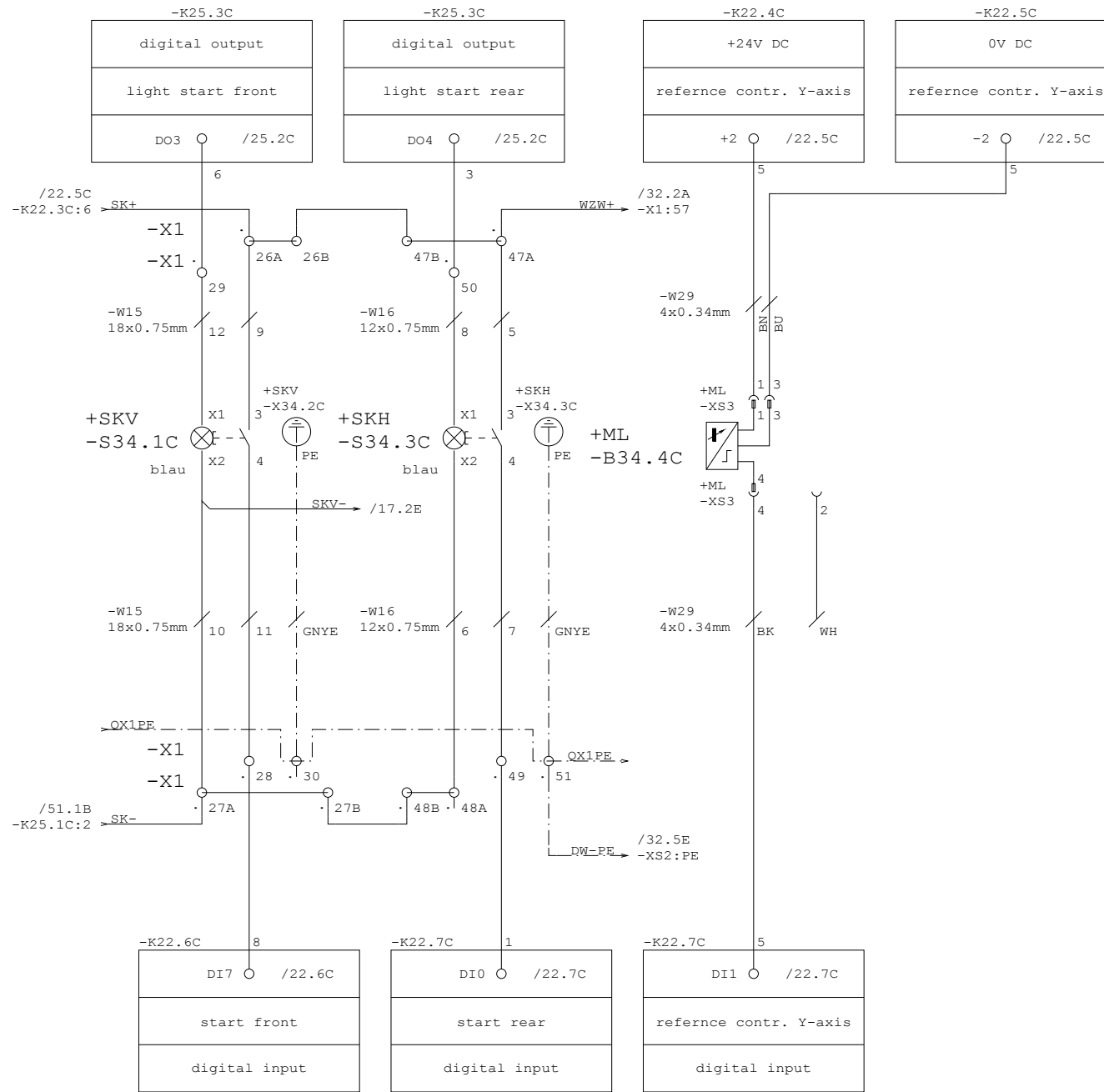


		Datum	06.10.16	PROTEC 0571	GANNOMAT	PLC-inputs cabinet	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH		GANNER		Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 32
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163

0 1 2 3 4 5 6 7 8 9

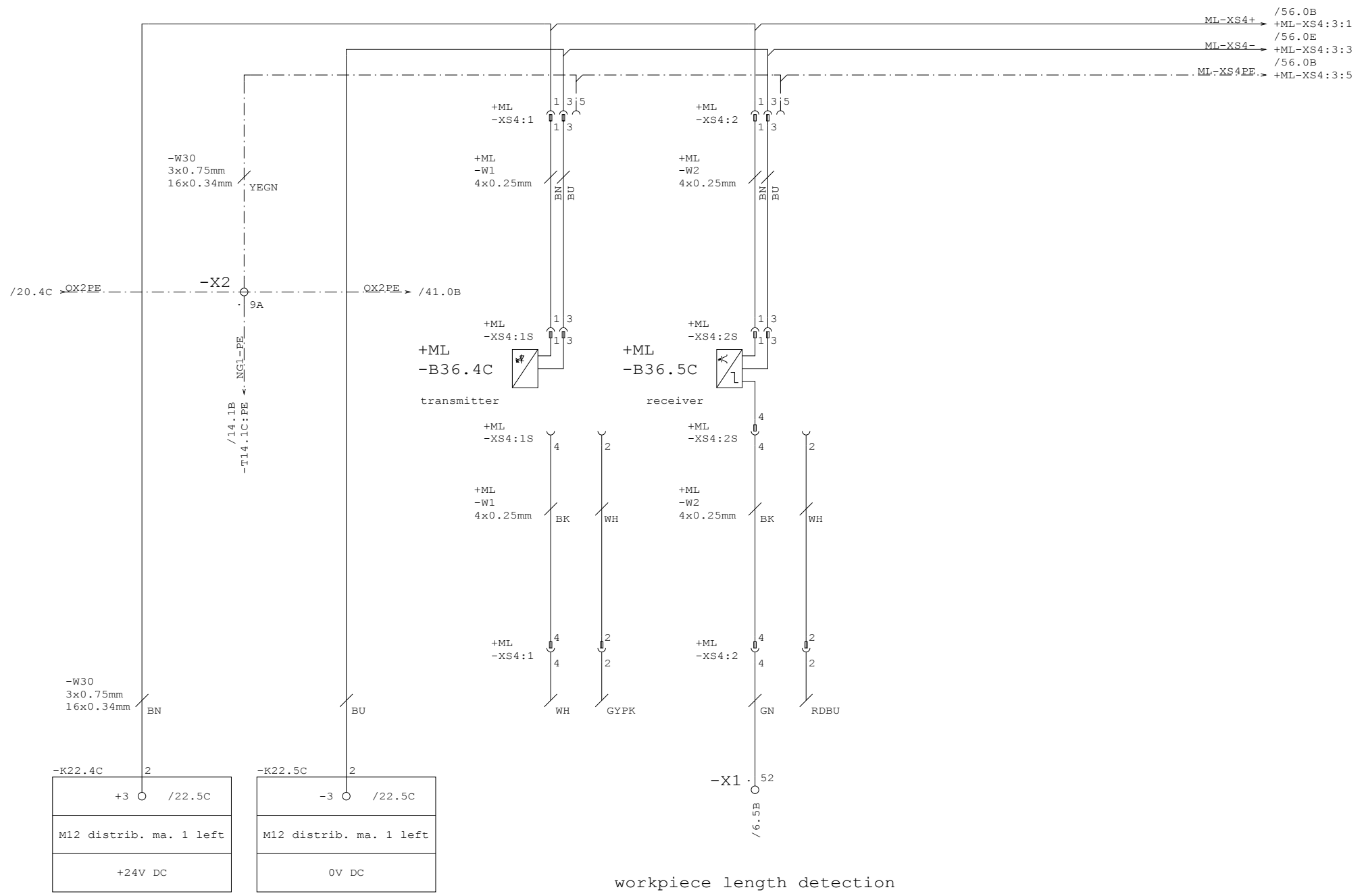
A
B
C
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E
F

A
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C
D
E
F



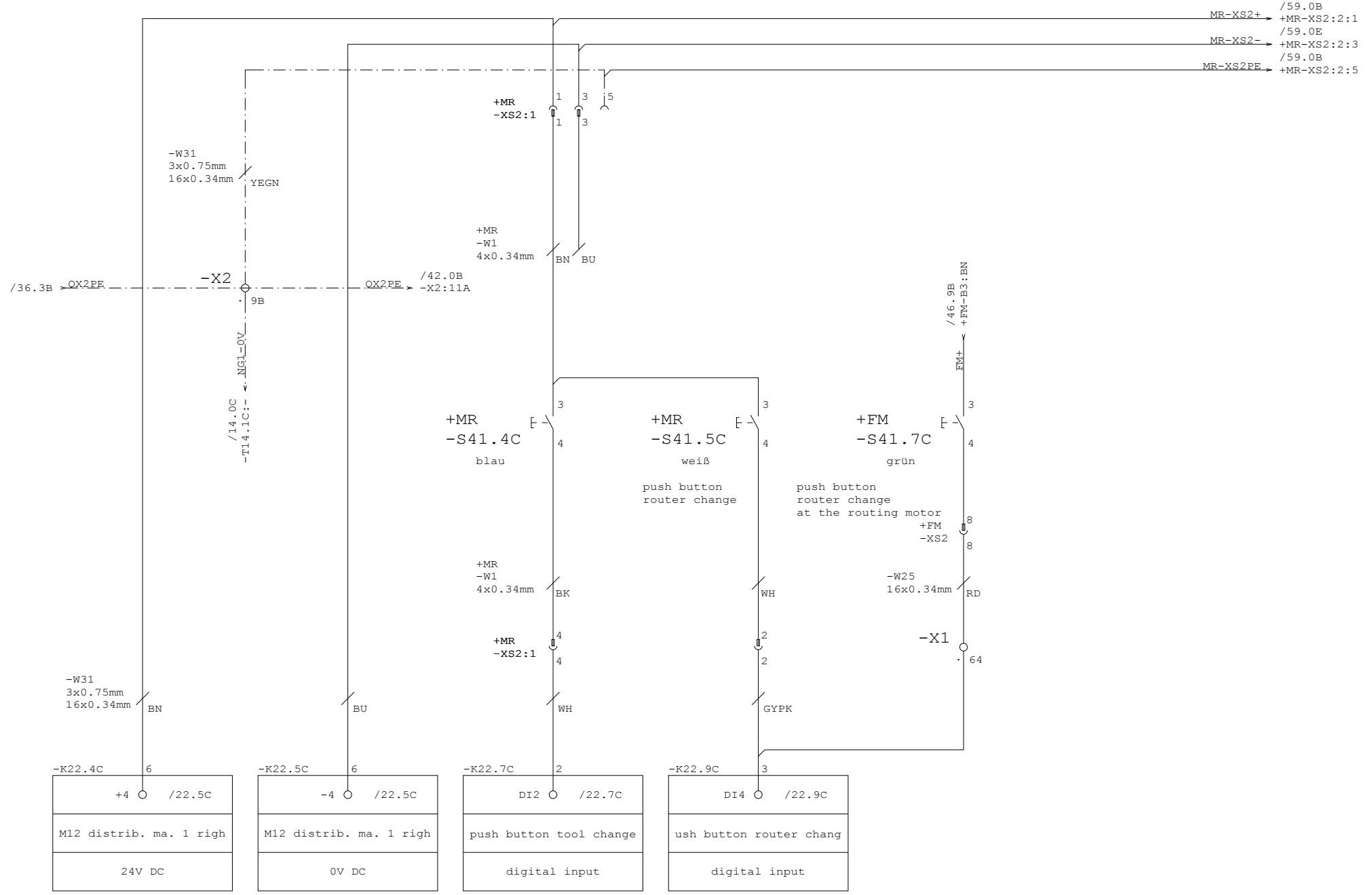
		Datum	06.10.16	PROTEC 0571	 GANNER Hermann Ganner Straße 1 A-6410 Telfs	PLC-inputs control panel	Project-no.: 0571A030B 405 V01.09		=ABFM
		edit.	WH	machine number			Part list 0571-0170-V200		+SS
change	Datum	Name	Norm	DIN 61346	252.527 -	Project name		Blatt 34	
						0571A030B V01.09		von 163	

0 1 2 3 4 5 6 7 8 9



workpiece length detection

		Datum	06.10.16	PROTEC 0571	GANNOMAT	PLC-inputs machine left	Project-no.:	0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list	0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1 A-6410 Telfs		Project name		Blatt 36
change	Datum	Name	Norm	DIN 61346			252.527 -		0571A030B V01.09



-K22.4C	6	+4	/22.5C
M12 distrib. ma. 1 righ			
24V DC			

-K22.5C	6	-4	/22.5C
M12 distrib. ma. 1 righ			
0V DC			

-K22.7C	2	DI2	/22.7C
push button tool change			
digital input			

-K22.9C	3	DI4	/22.9C
ush button router chang			
digital input			

	Datum	06.10.16	PROTEC 0571	GANNOMAT	PLC-inputs machine right	Project-no.: 0571A030B 405 V01.09	=ABFM
	edit.	WH				Part list 0571-0170-V200	+SS
	Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 41
change	Datum	Name	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163

0 1 2 3 4 5 6 7 8 9

A

B

C

D

E

F

A

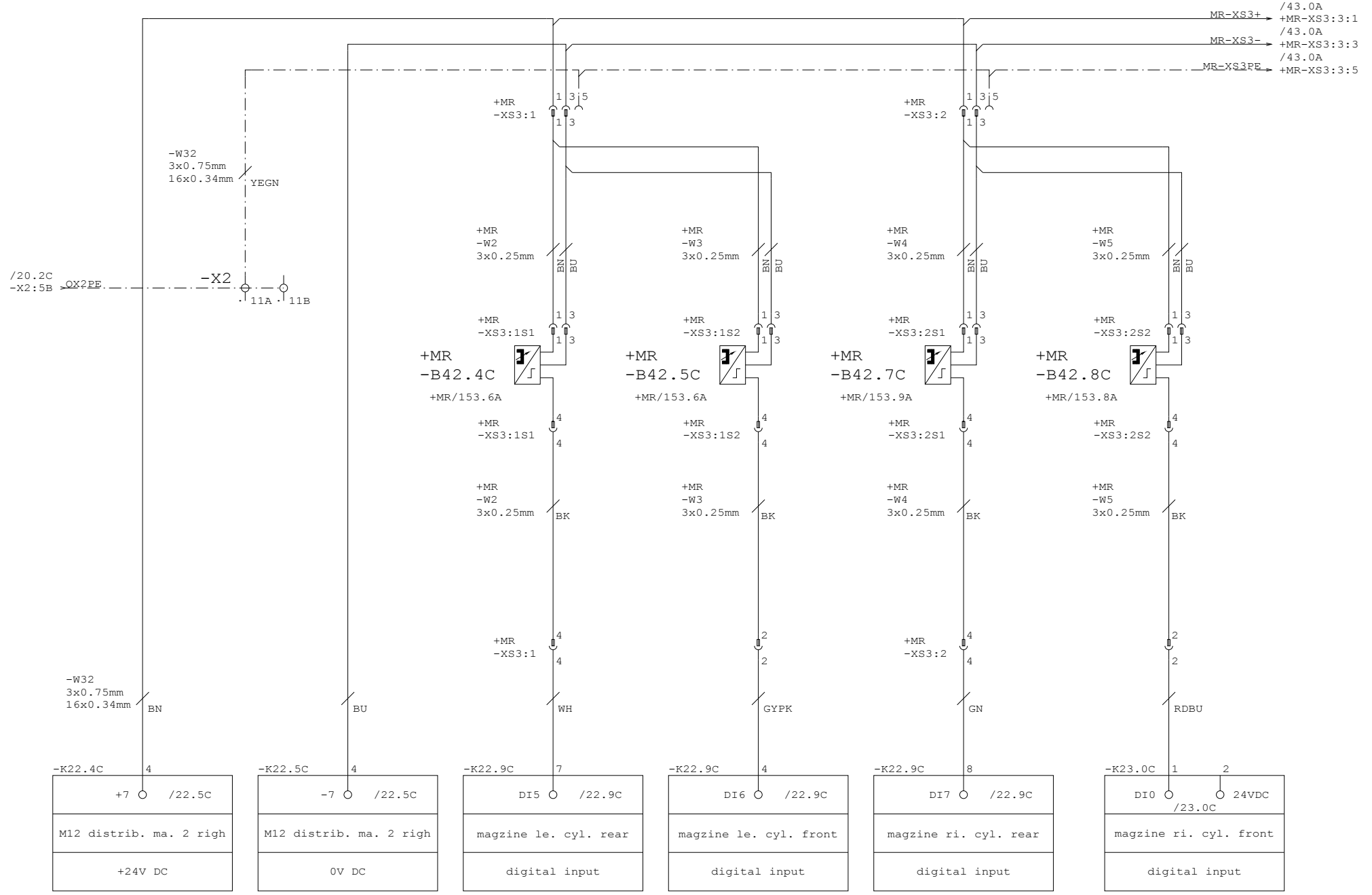
B

C

D

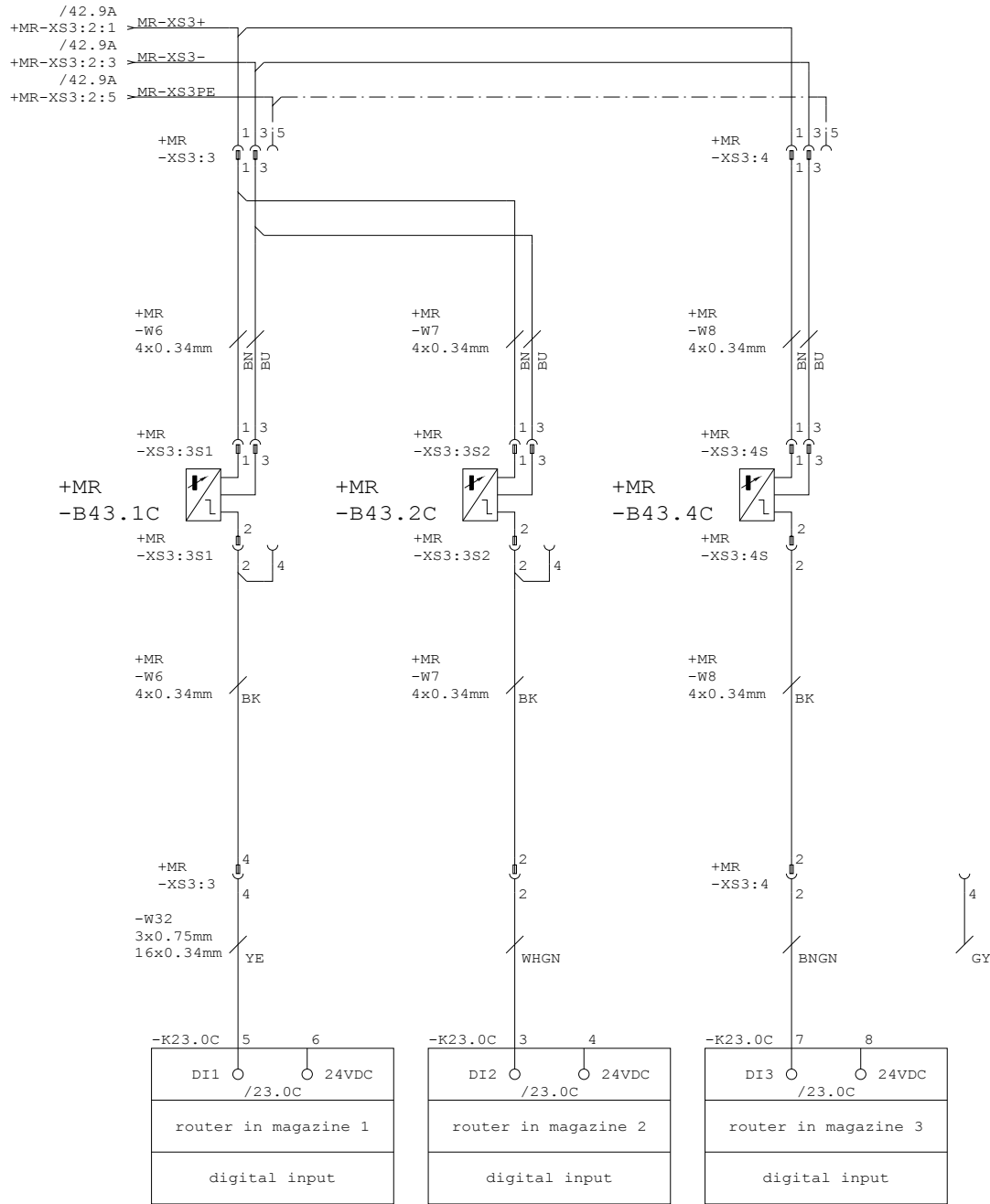
E

F

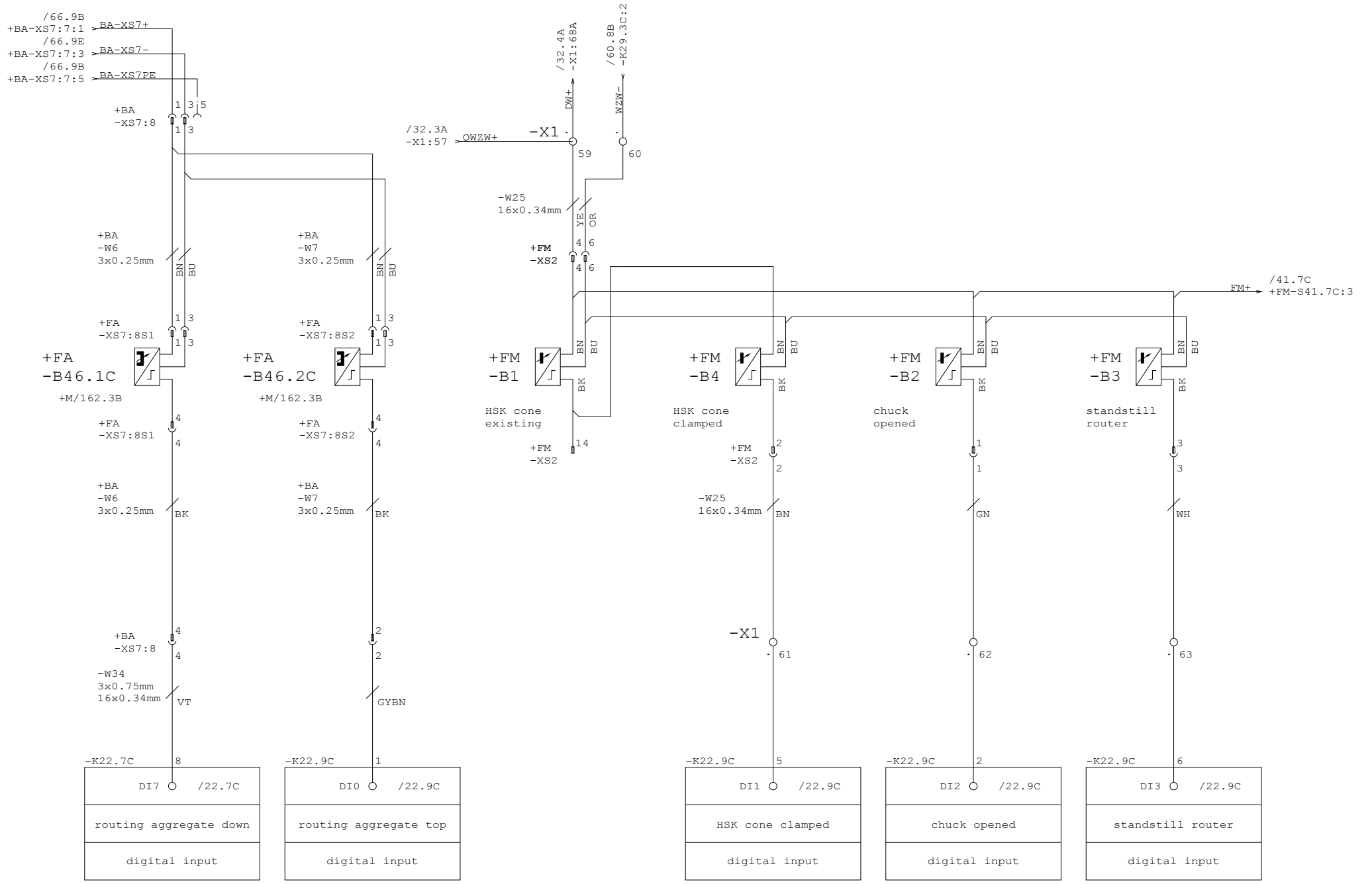


		Datum	06.10.16	PROTEC 0571	GANNOMat	PLC-inputs machine right	Project-no.: 0571A030B 405 V01.09	=ABFM		
		edit.	WH							
		Gepr.		machine number	Hermann Ganner Straße 1		Part list	0571-0170-V200	+SS	
change	Datum	Name	DIN 61346	252.527 -	A-6410 Telfs		Project name	0571A030B V01.09	Blatt	42
									von	163

0 1 2 3 4 5 6 7 8 9



		Datum	06.10.16	PROTEC 0571		PLC-inputs machine right	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 43
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163



DI7	/22.7C	DI0	/22.9C	DI1	/22.9C	DI2	/22.9C	DI3	/22.9C
routing aggregate down		routing aggregate top		HSK cone clamped		chuck opened		standstill router	
digital input		digital input		digital input		digital input		digital input	

Datum		06.10.16		PROTEC 0571		GANNOMat		PLC-inputs drilling aggregate		Project-no.: 0571A030B 405 V01.09		=ABFM	
edit.		WH				GANNER				Part list 0571-0170-V200		+SS	
Gepr.				machine number		Hermann Ganner Straße 1				Project name		Blatt 46	
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs				0571A030B V01.09		von 163	

0 1 2 3 4 5 6 7 8 9

A

B

C

D

E

F

A

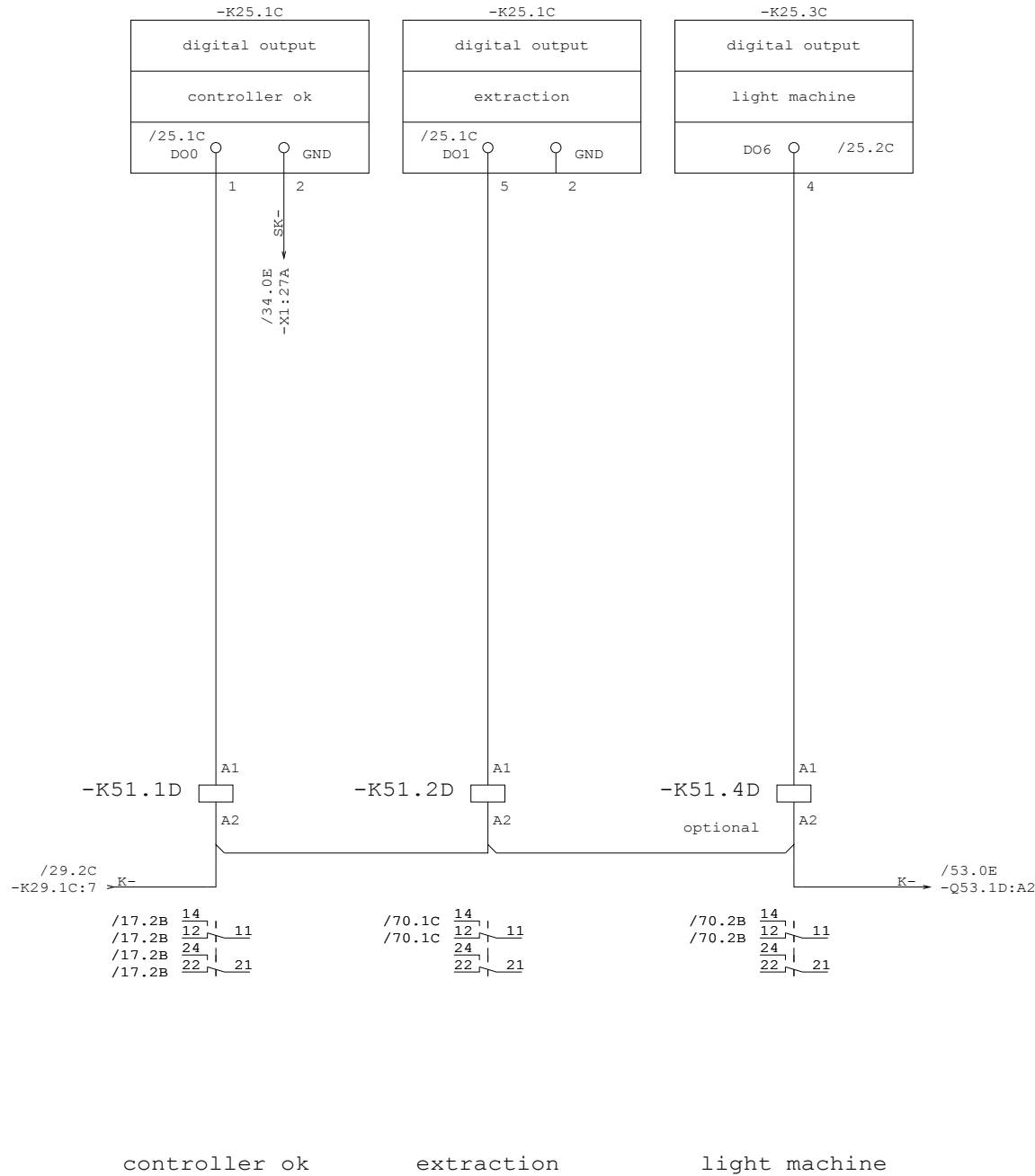
B

C

D

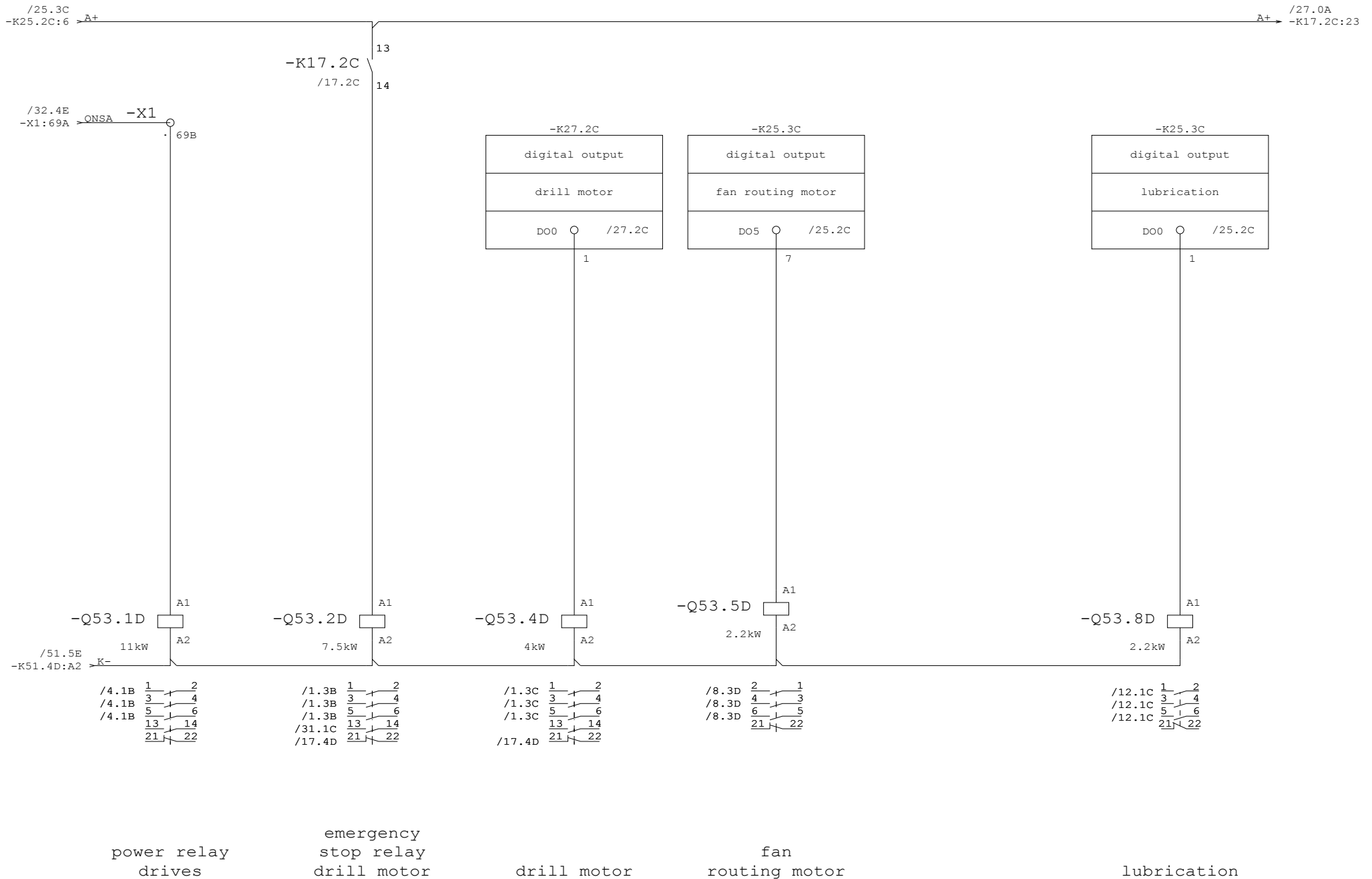
E

F

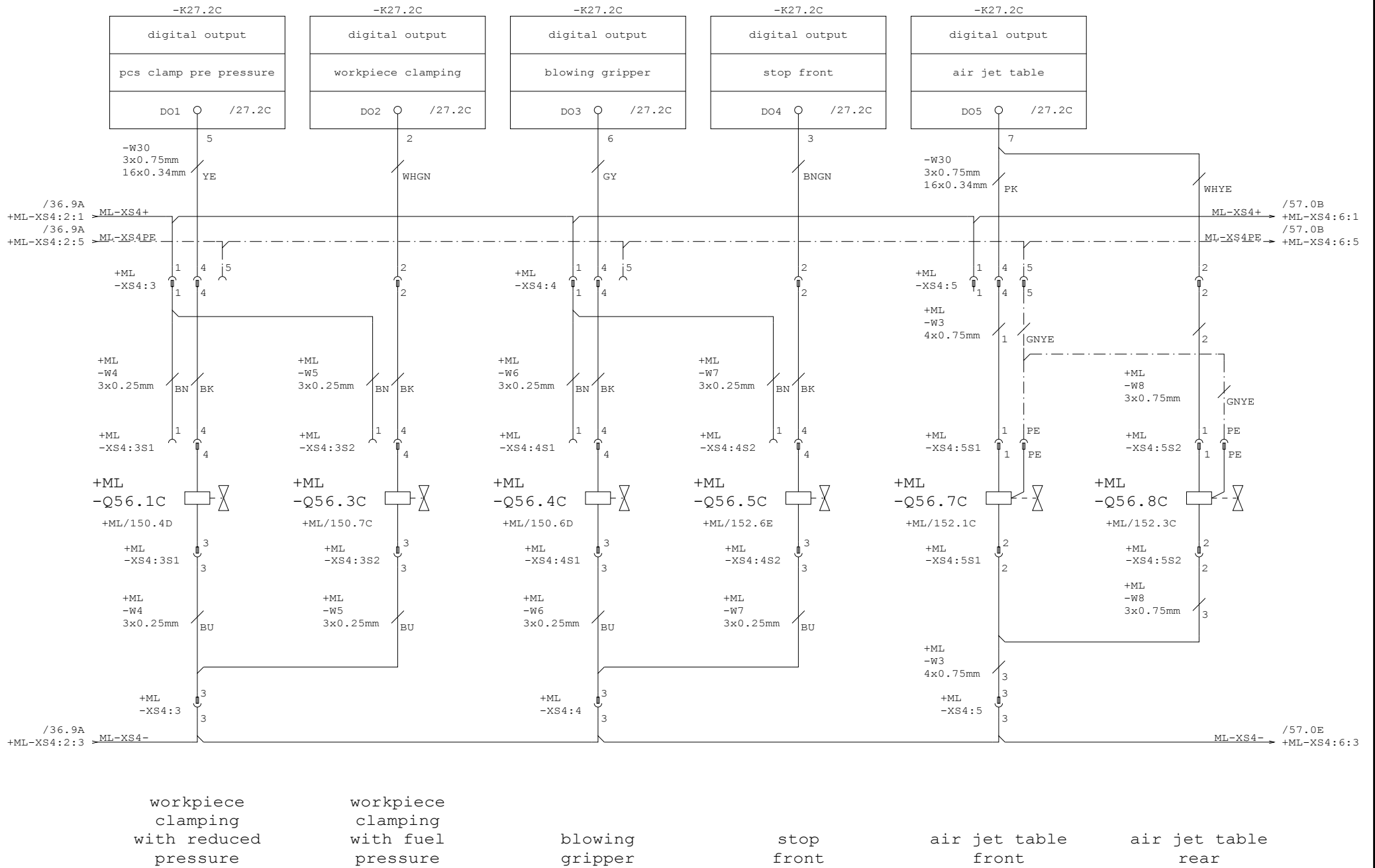


			Datum	06.10.16	PROTEC 0571	GANNOMAT	relays	Project-no.:	0571A030B 405 V01.09	=ABFM
			edit.	WH				Part list	0571-0170-V200	+SS
			Gepr.		machine number	Hermann Ganner Straße 1		Project name	0571A030B V01.09	Blatt 51
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs				von 163

0 1 2 3 4 5 6 7 8 9



		Datum	06.10.16	PROTEC 0571	GANNOMAT	power relays	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 53
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163



workpiece
clamping
with reduced
pressure

workpiece
clamping
with fuel
pressure

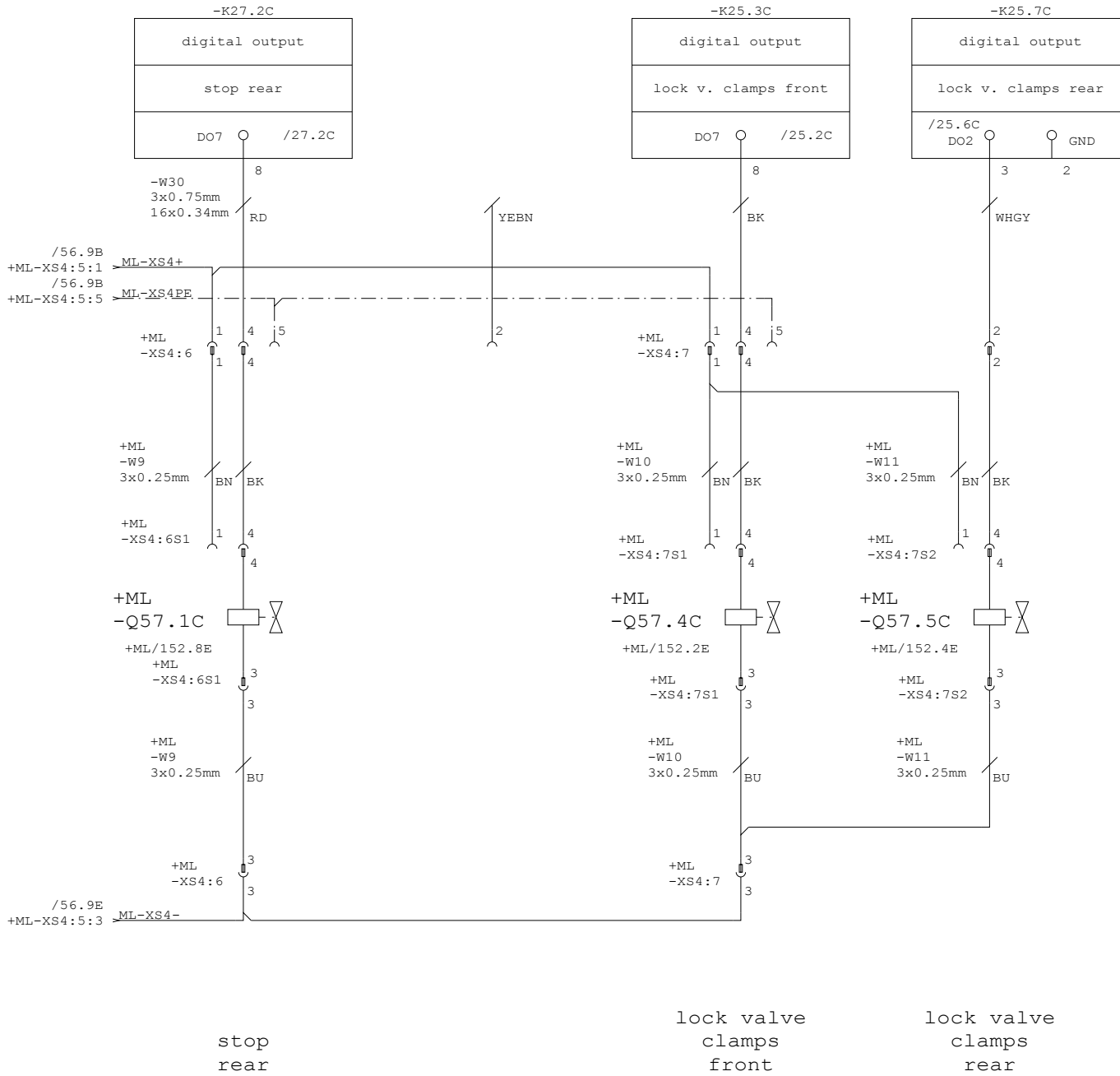
blowing
gripper

stop
front

air jet table
front

air jet table
rear

		Datum	06.10.16	PROTEC 0571		valves machine left	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1	Project name	0571A030B V01.09	Blatt 56
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs			von 163

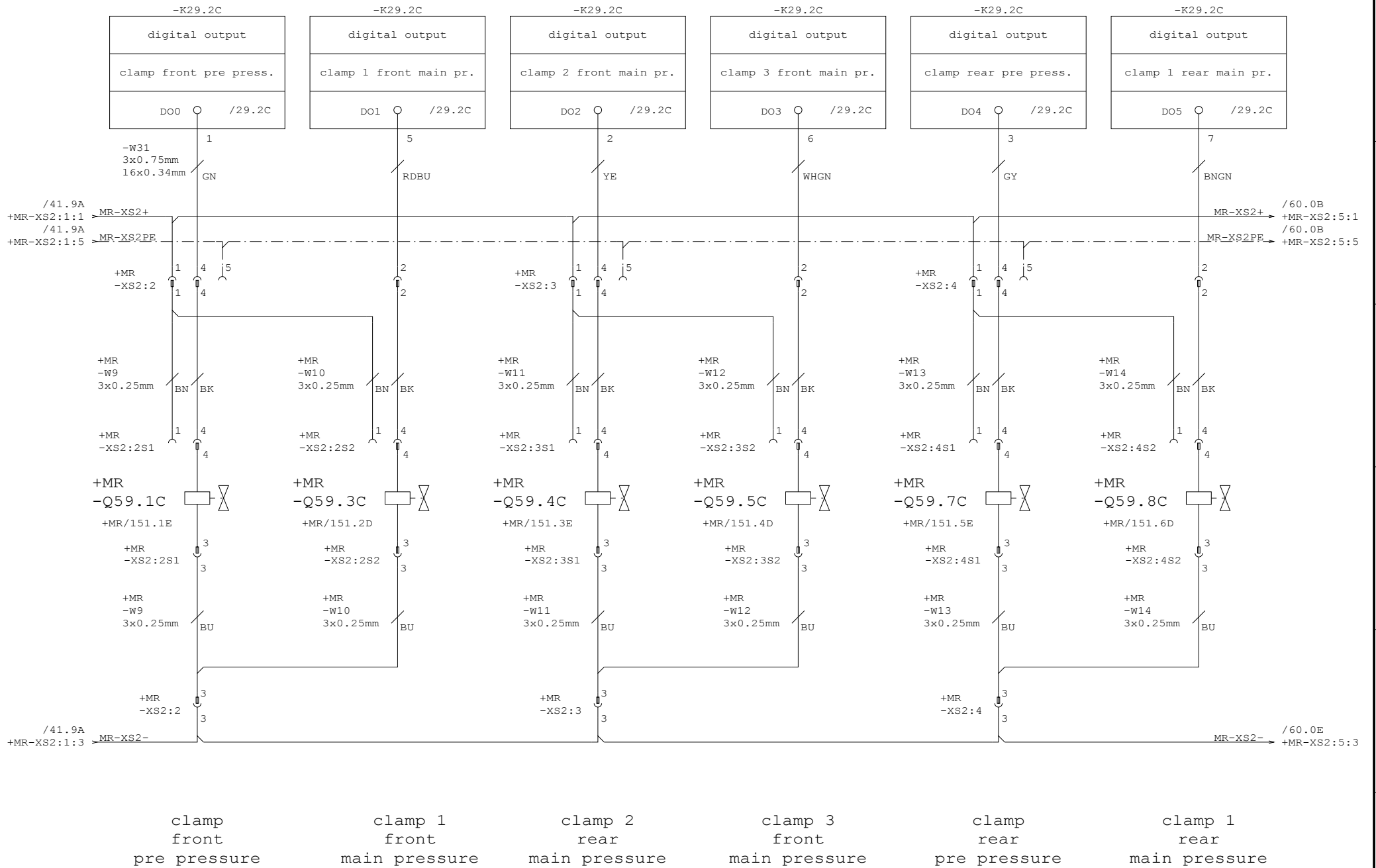


stop rear

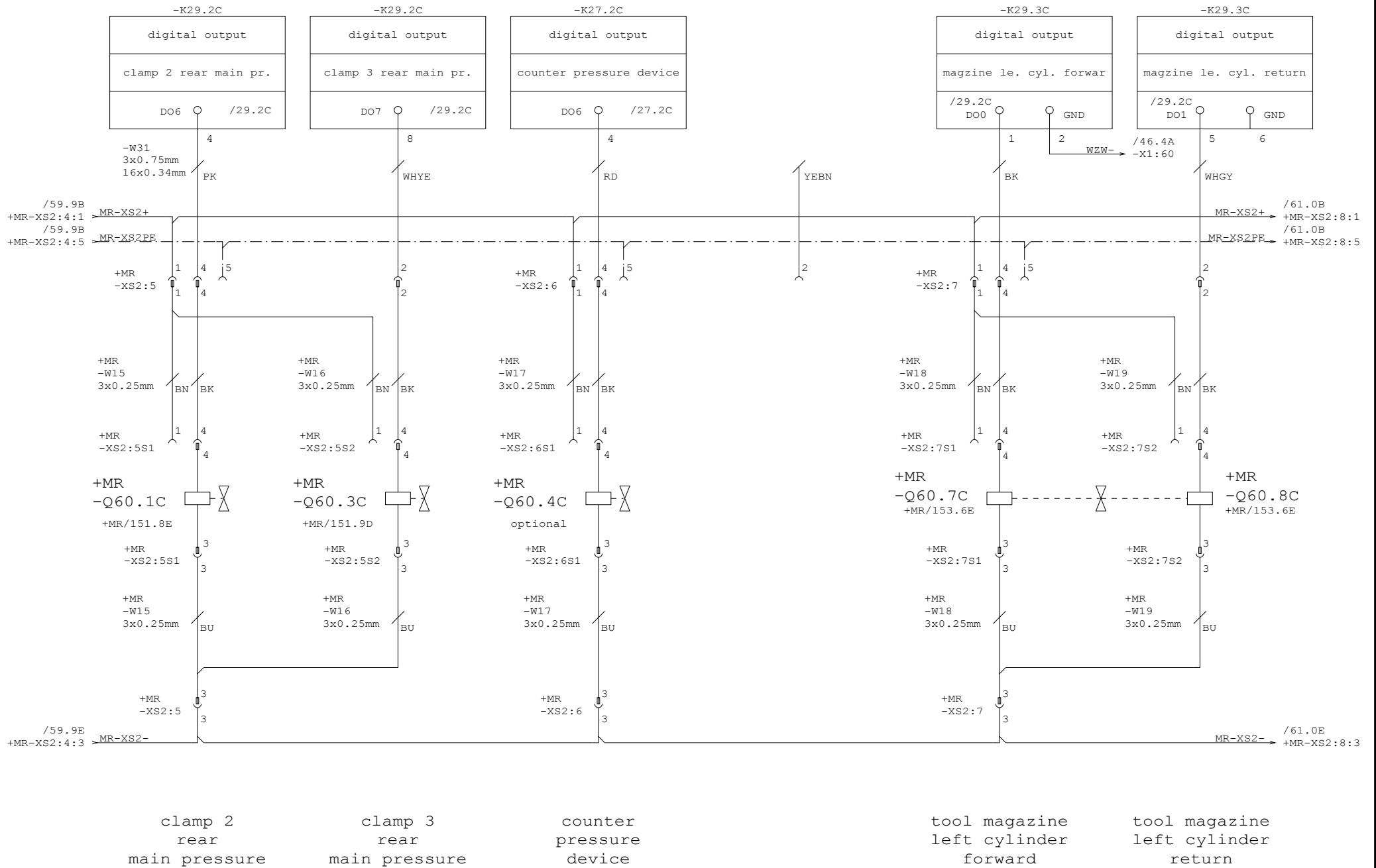
lock valve clamps front

lock valve clamps rear

		Datum	06.10.16	PROTEC 0571	GANNOMAT	valves machine left	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 57
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs		0571A030B V01.09	von 163



	Datum	06.10.16	PROTEC 0571	GANNOMAT	valves machine right	Project-no.:	0571A030B 405 V01.09	=ABFM
	edit.	WH				Part list	0571-0170-V200	+SS
	Gepr.		machine number	GANNER		Project name	0571A030B V01.09	Blatt 59
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs		von 163



clamp 2
rear
main pressure

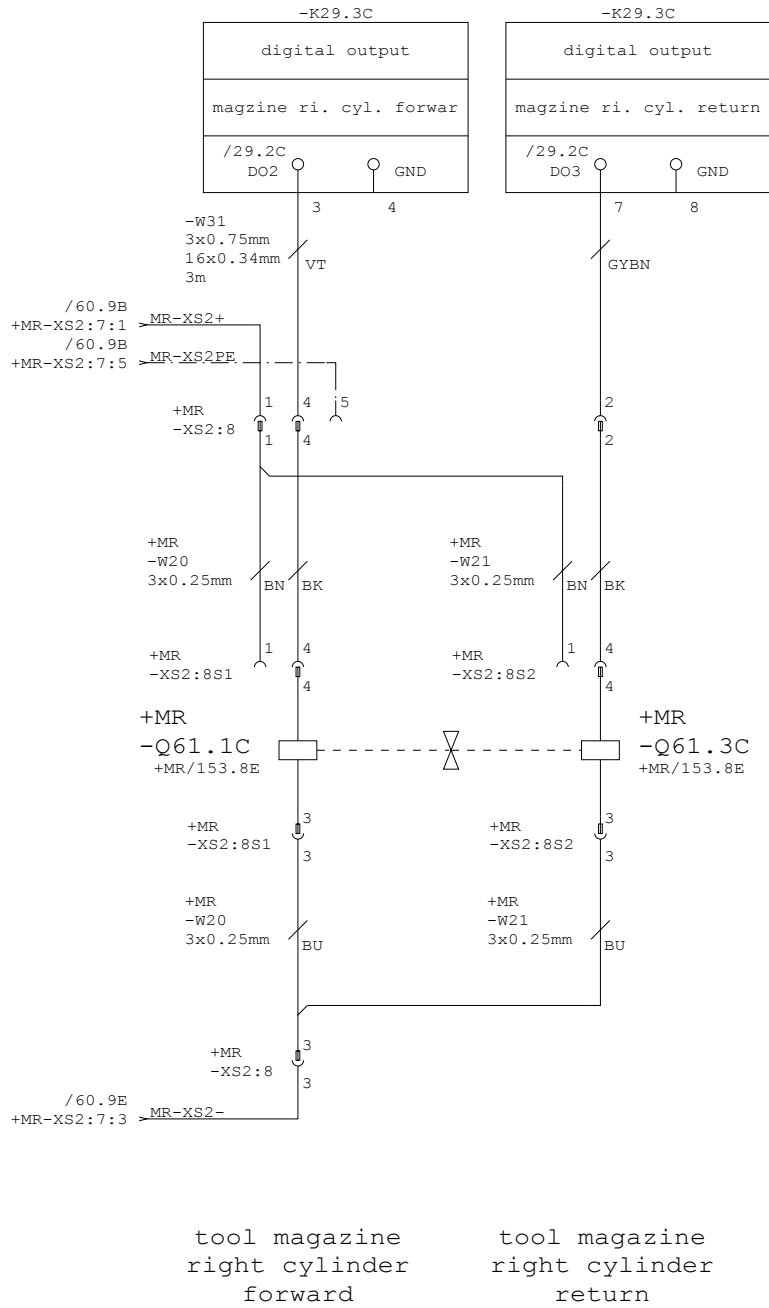
clamp 3
rear
main pressure

counter
pressure
device

tool magazine
left cylinder
forward

tool magazine
left cylinder
return

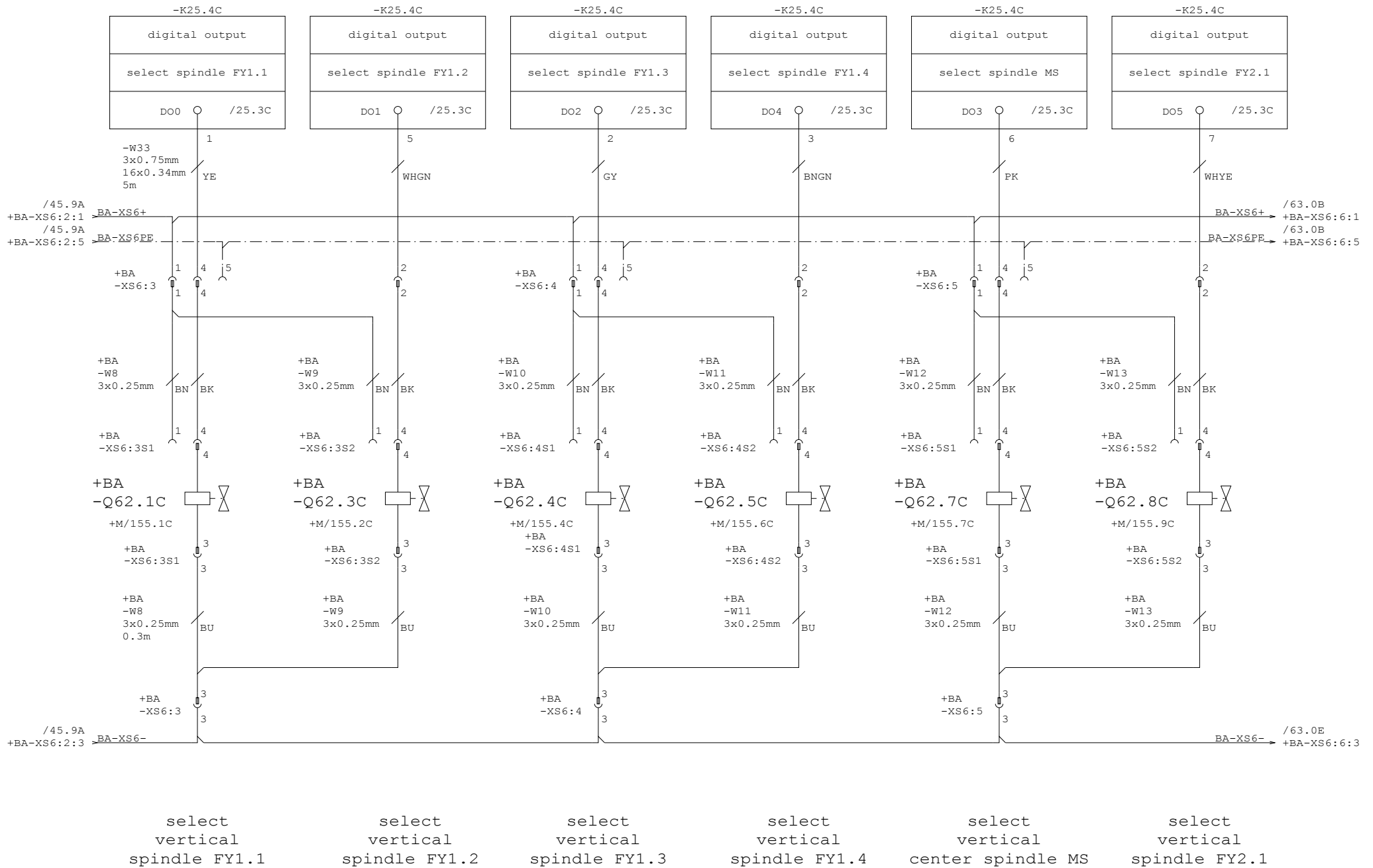
		Datum	06.10.16	PROTEC 0571	 GANNER Hermann Ganner Straße 1 A-6410 Telfs	valves machine right	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH			Part list	0571-0170-V200	+SS
		Gepr.		machine number			Project name	Blatt 60
change	Datum	Name	Norm	DIN 61346	252.527 -		0571A030B V01.09	von 163



tool magazine
right cylinder
forward

tool magazine
right cylinder
return

		Datum	06.10.16	PROTEC 0571	GANNOMAT	valves machine right	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 61
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163



select vertical spindle FY1.1

select vertical spindle FY1.2

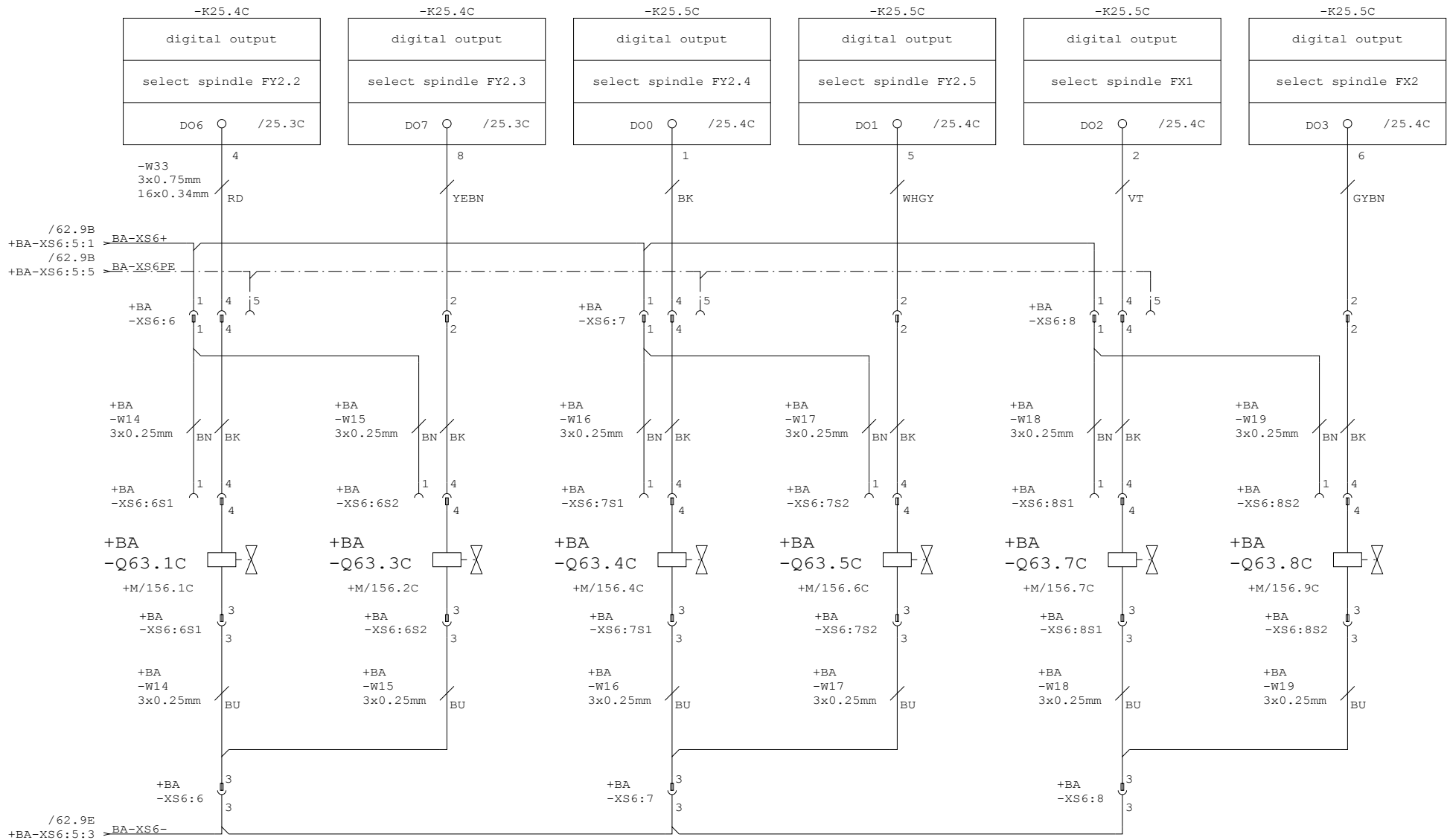
select vertical spindle FY1.3

select vertical spindle FY1.4

select vertical center spindle MS

select vertical spindle FY2.1

		Datum	06.10.16	PROTEC 0571	GANNOMAT	valves drilling aggregate	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number 252.527 -	Hermann Ganner Straße 1		Project name 0571A030B V01.09	Blatt 62
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs			von 163



select vertical spindle FY2.2

select vertical spindle FY2.3

select vertical spindle FY2.4

select vertical spindle FY2.5

select vertical spindle FX1

select vertical spindle FX2

		Datum	06.10.16	PROTEC 0571	 GANNER Hermann Ganner Straße 1 A-6410 Telfs	valves drilling aggregate	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH	machine number			Part list 0571-0170-V200	+SS
change	Datum	Name	Norm	DIN 61346	252.527 -		Project name	Blatt 63
							0571A030B V01.09	von 163

0 1 2 3 4 5 6 7 8 9

A

B

C

D

E

F

A

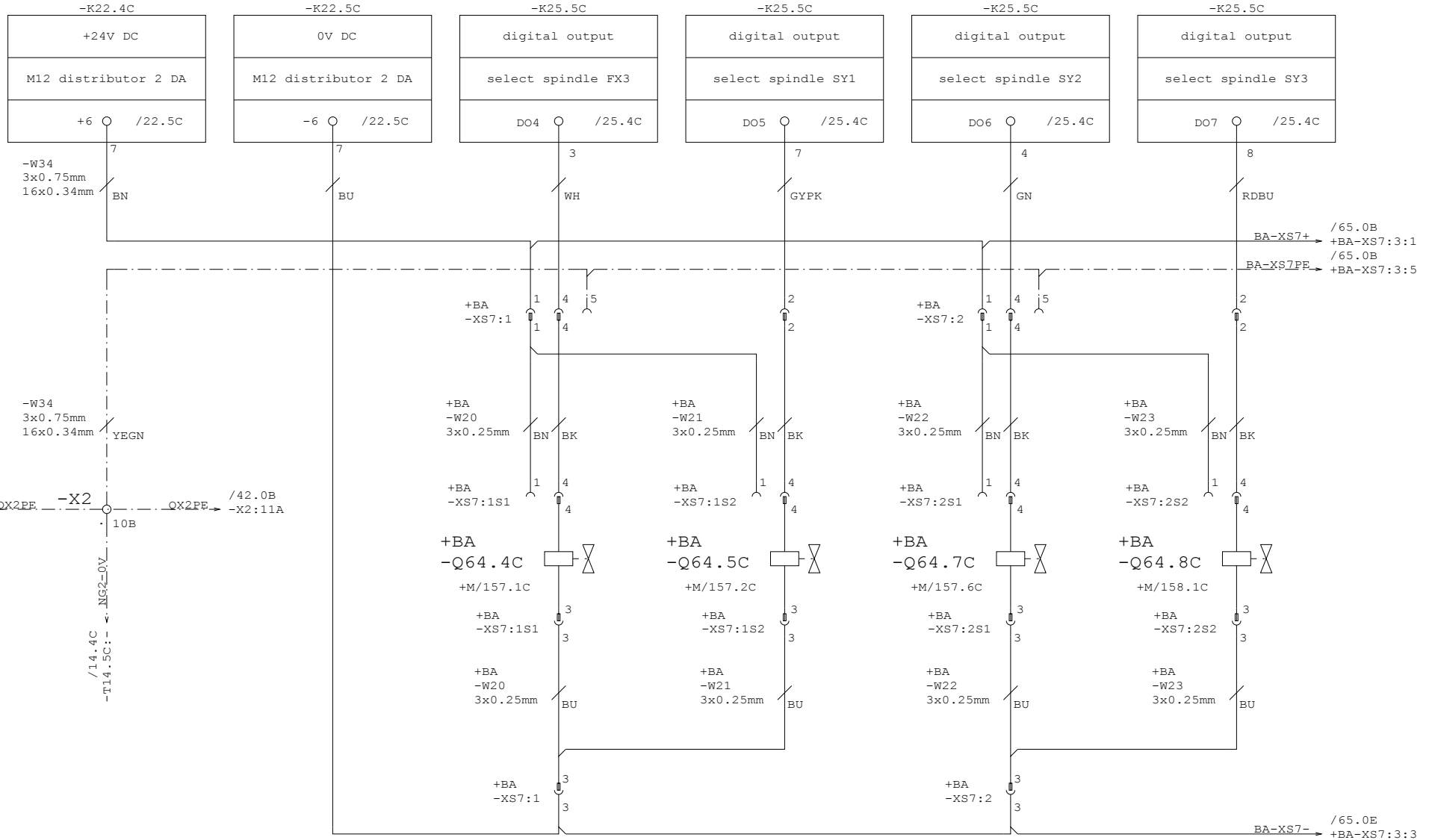
B

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F



select vertical spindle FX3

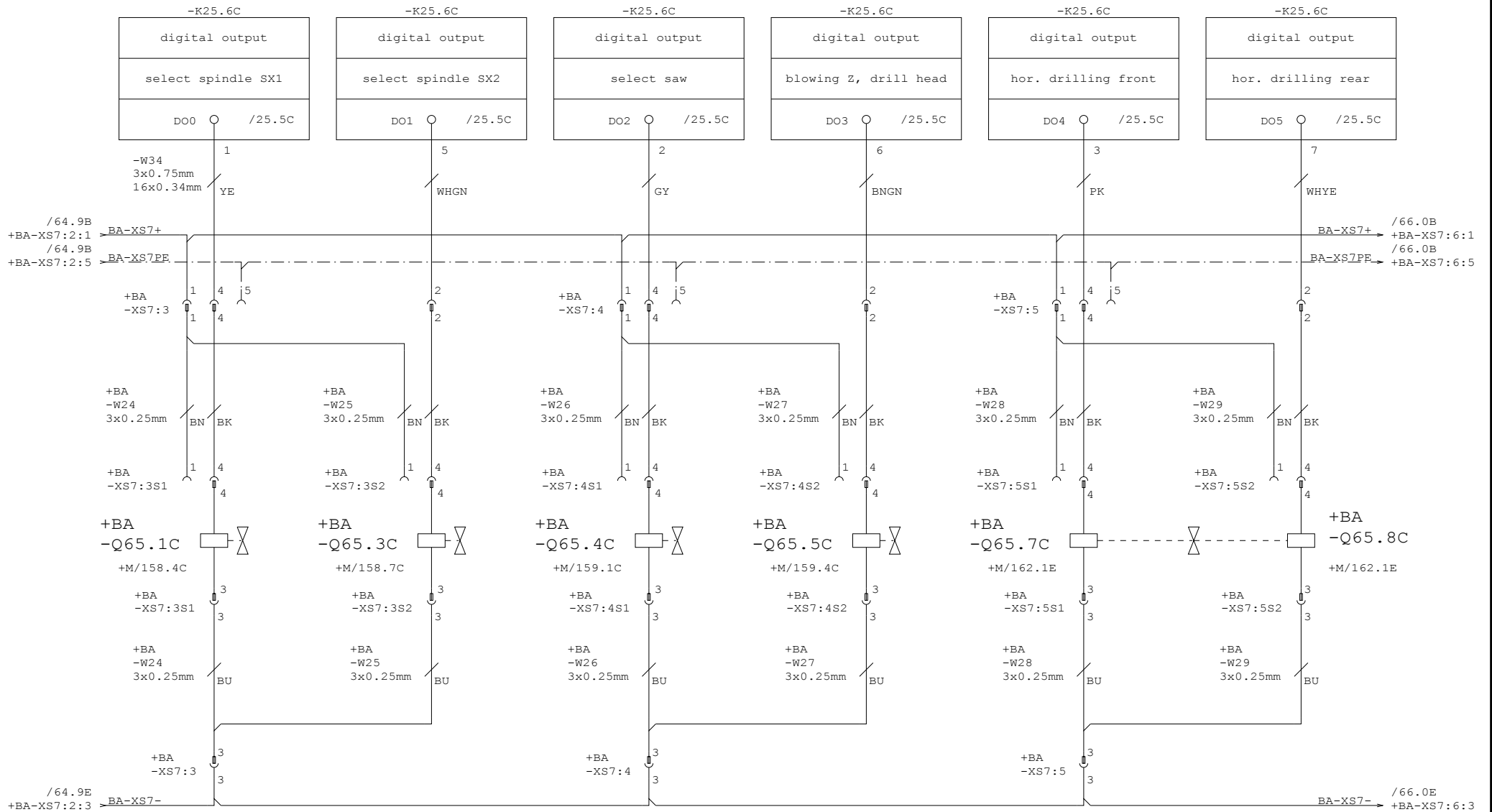
select horizontal spindle SY1

select horizontal spindle SY2

select horizontal spindle SY3

		Datum	06.10.16	PROTEC 0571	GANNOMAT	valves drilling aggregate	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 64
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs		0571A030B V01.09	von 163

0 1 2 3 4 5 6 7 8 9



select horizontal spindle SX1

select horizontal spindle SX2

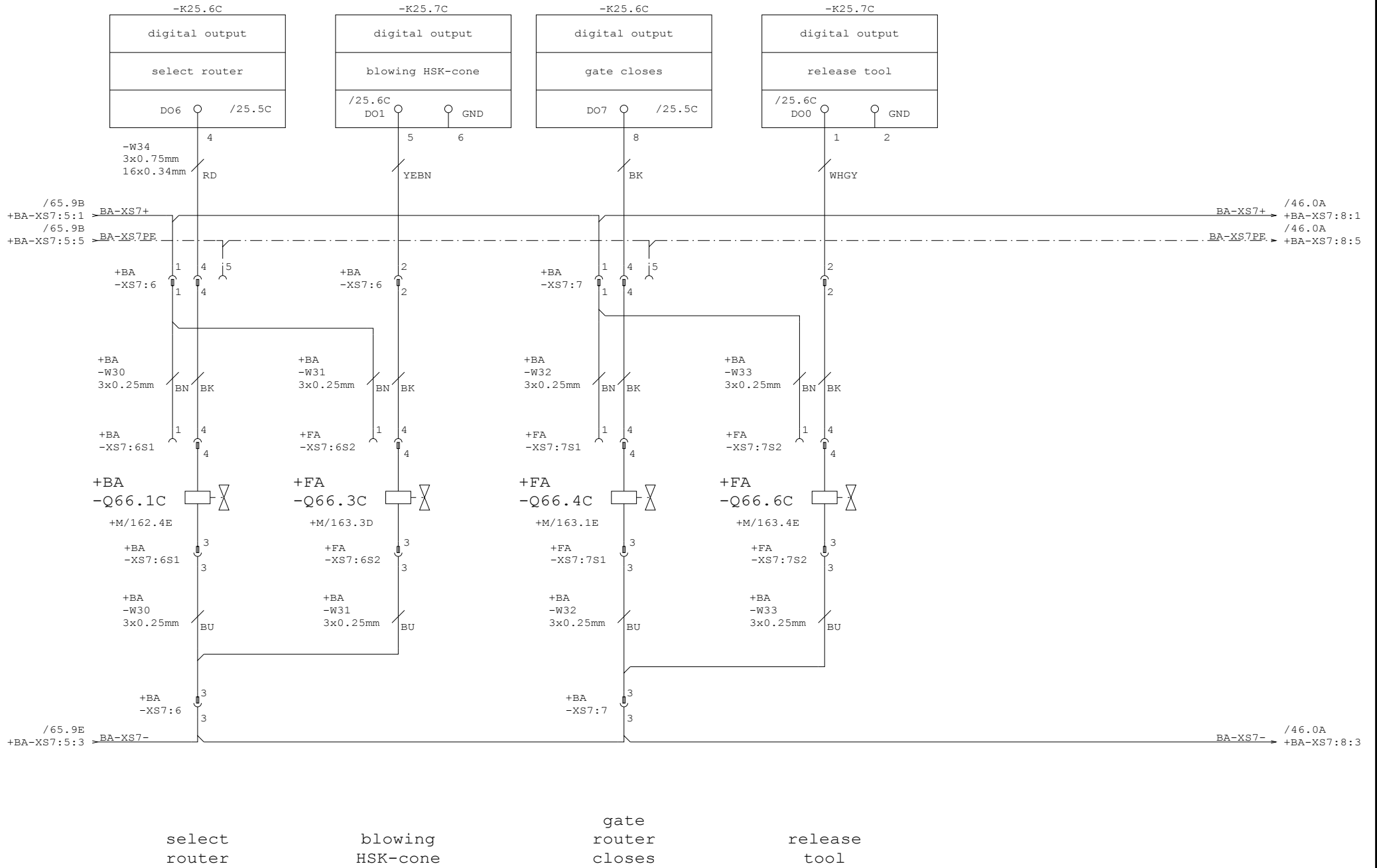
select saw

blowing Z-axis and drill head

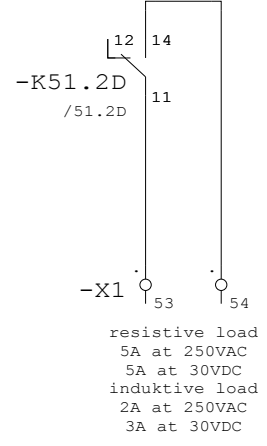
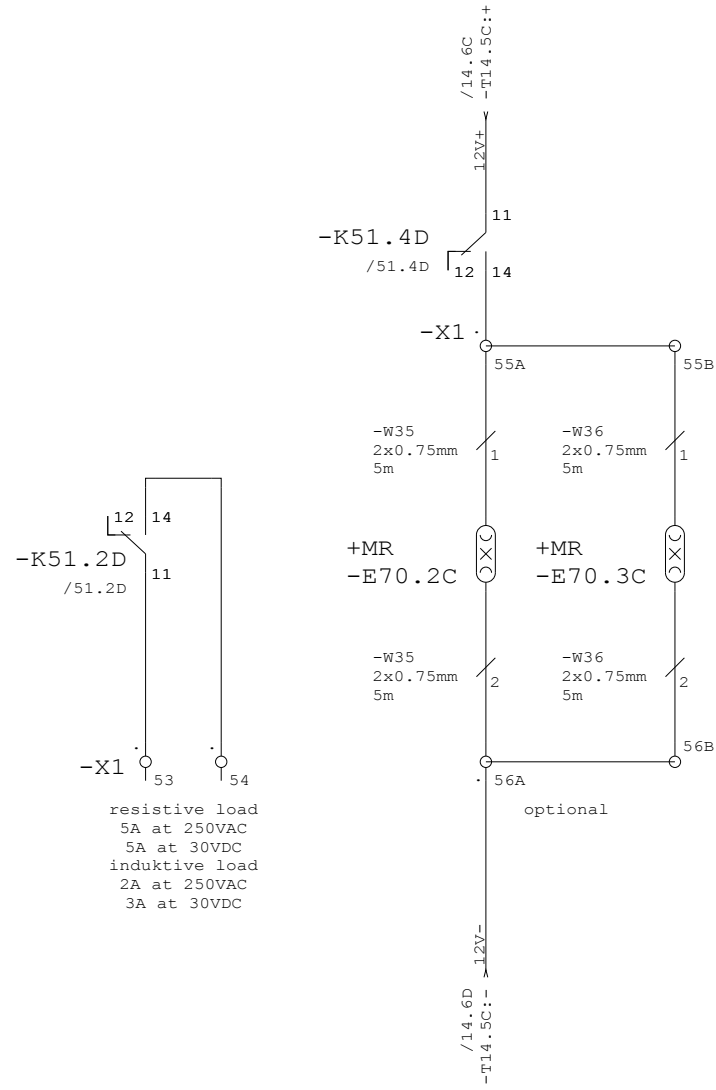
horizontal drilling front

horizontal drilling rear

		Datum	06.10.16	PROTEC 0571	GANNOMAT	valves drilling aggregate	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+SS
		Gepr.		machine number 252.527 -	Hermann Ganner Straße 1		Project name 0571A030B V01.09	Blatt 65
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs			von 163

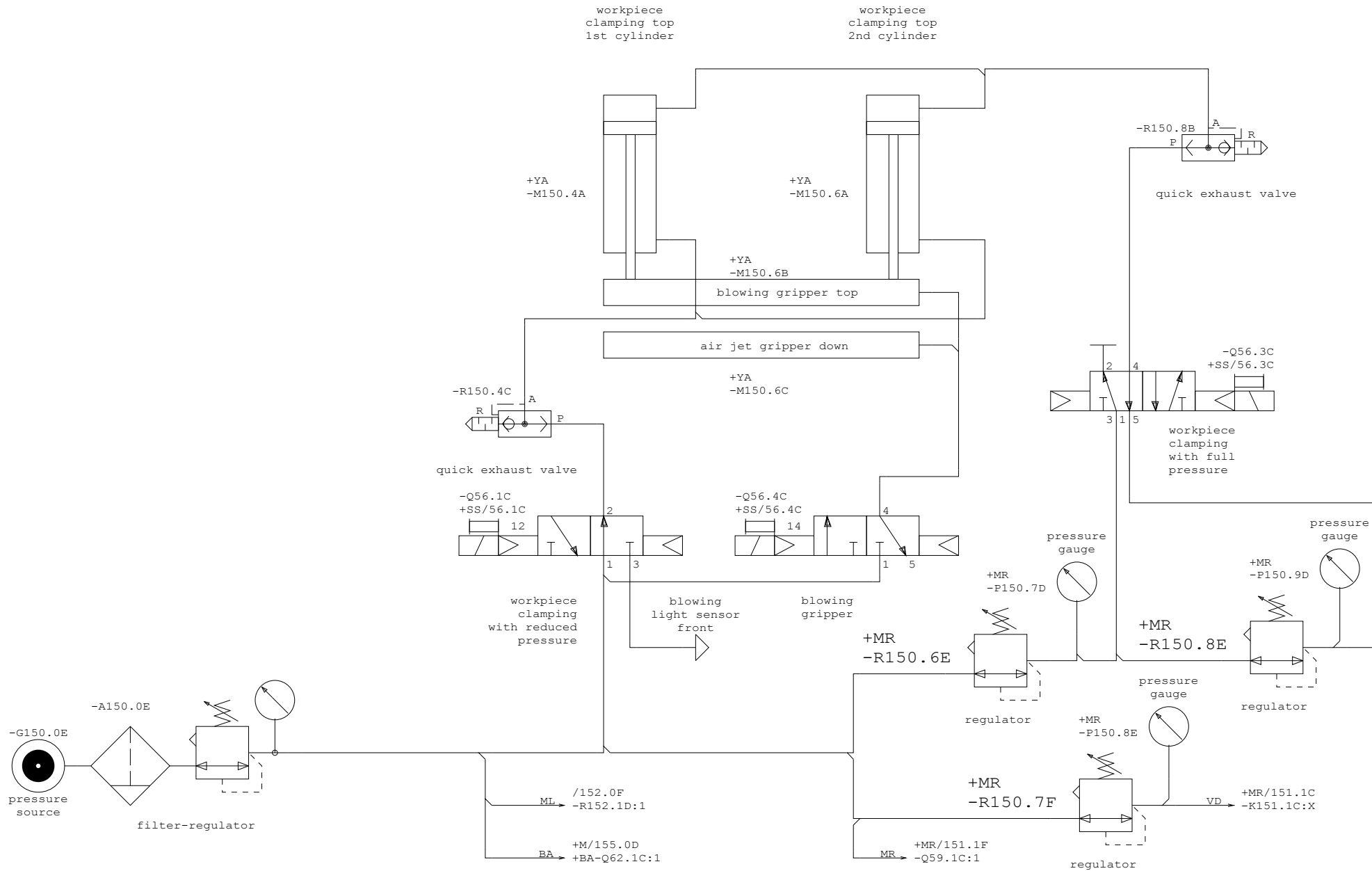


Datum		06.10.16		PROTEC 0571		GANNOMat		valves drilling aggregate		Project-no.: 0571A030B 405 V01.09		=ABFM	
edit.		WH				GANNER				Part list 0571-0170-V200		+SS	
Gepr.				machine number		Hermann Ganner Straße 1				Project name		Blatt 66	
change		Datum		Name		Norm		DIN 61346		0571A030B V01.09		von 163	

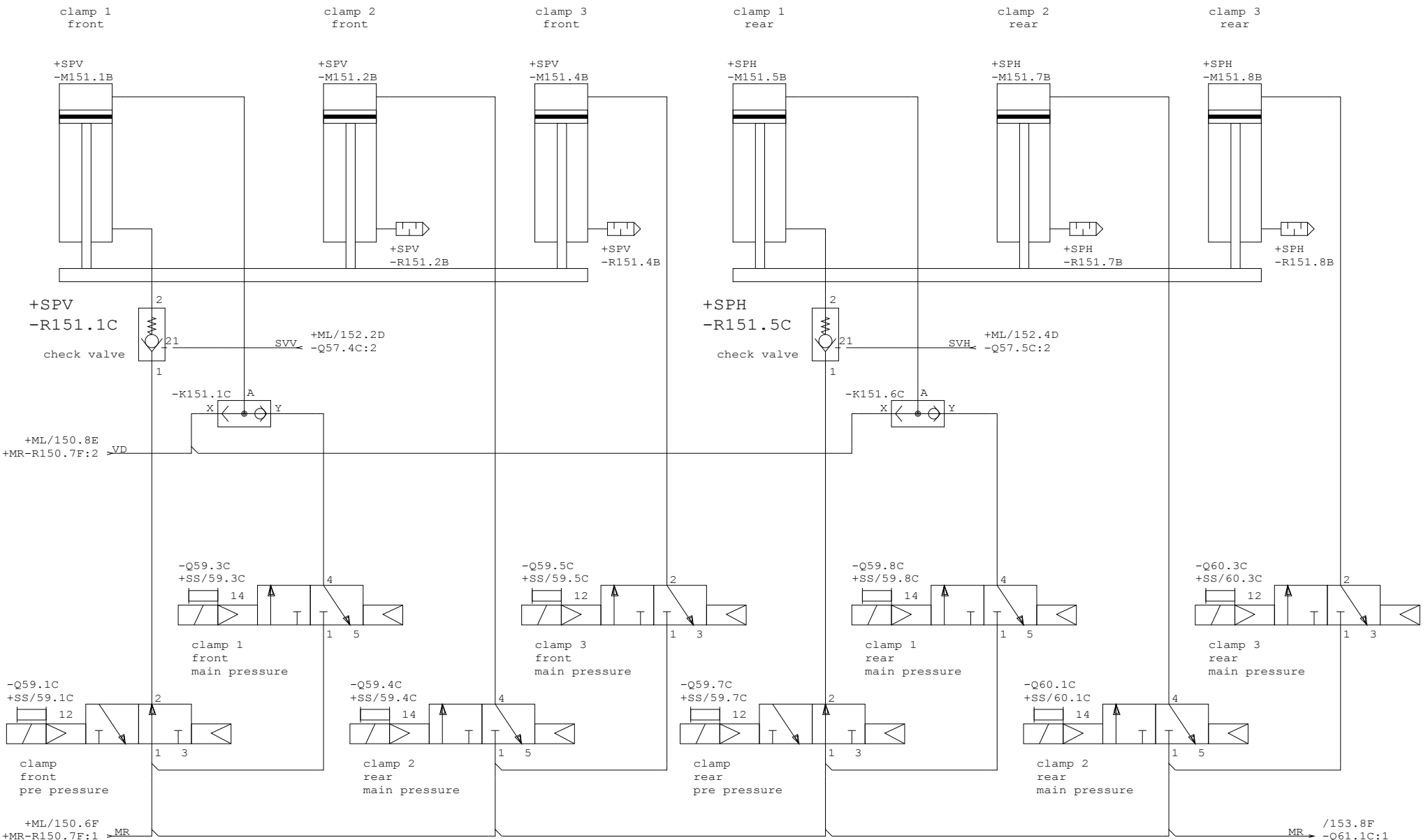


extraction light machine

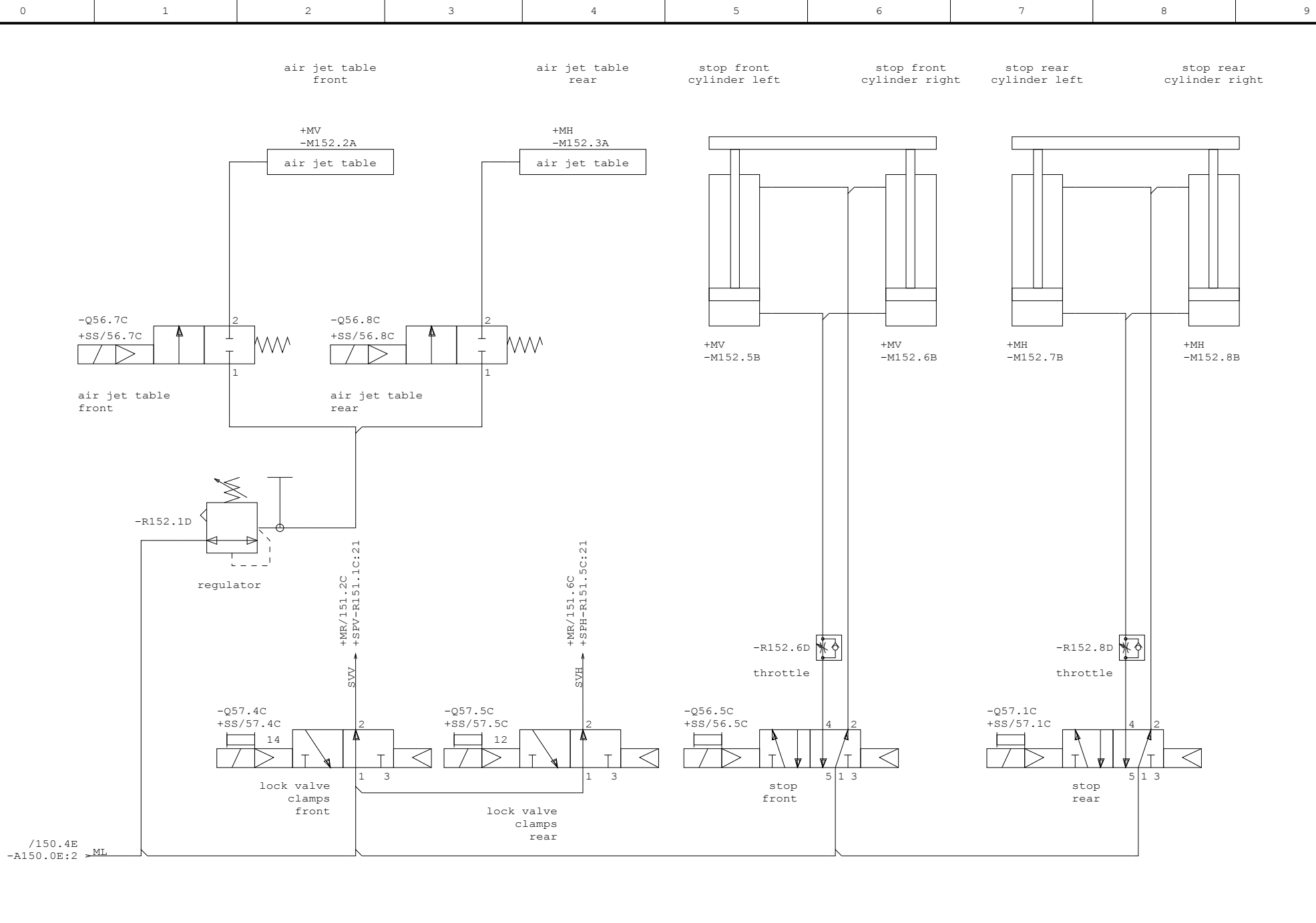
	Datum	06.10.16	PROTEC 0571	GANNOMAT	accessories	Project-no.: 0571A030B 405 V01.09	=ABFM
	edit.	WH		GANNER		Part list 0571-0170-V200	+SS
	Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 70
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	von 163



Datum		06.10.16		PROTEC 0571		GANNOMAT		pneumatic diagram gripper		Project-no.: 0571A030B 405 V01.09		=ABFM	
edit.		WH				GANNER				Part list 0571-0170-V200		+ML	
Gepr.				machine number		Hermann Ganner Straße 1				Project name		Blatt 150	
change		Datum		Name		Norm		DIN 61346		252.527 -		von 163	



Datum		06.10.16		PROTEC 0571		GANNOMat		pneumatic diagram		Project-no.: 0571A030B 405 V01.09		=ABFM	
edit.		WH		machine number		GANNER		clamps		Part list 0571-0170-V200		+MR	
Gepr.				252.527 -		Hermann Ganner Straße 1				Project name		Blatt 151	
change		Datum		Name		A-6410 Telfs				0571A030B V01.09		von 163	



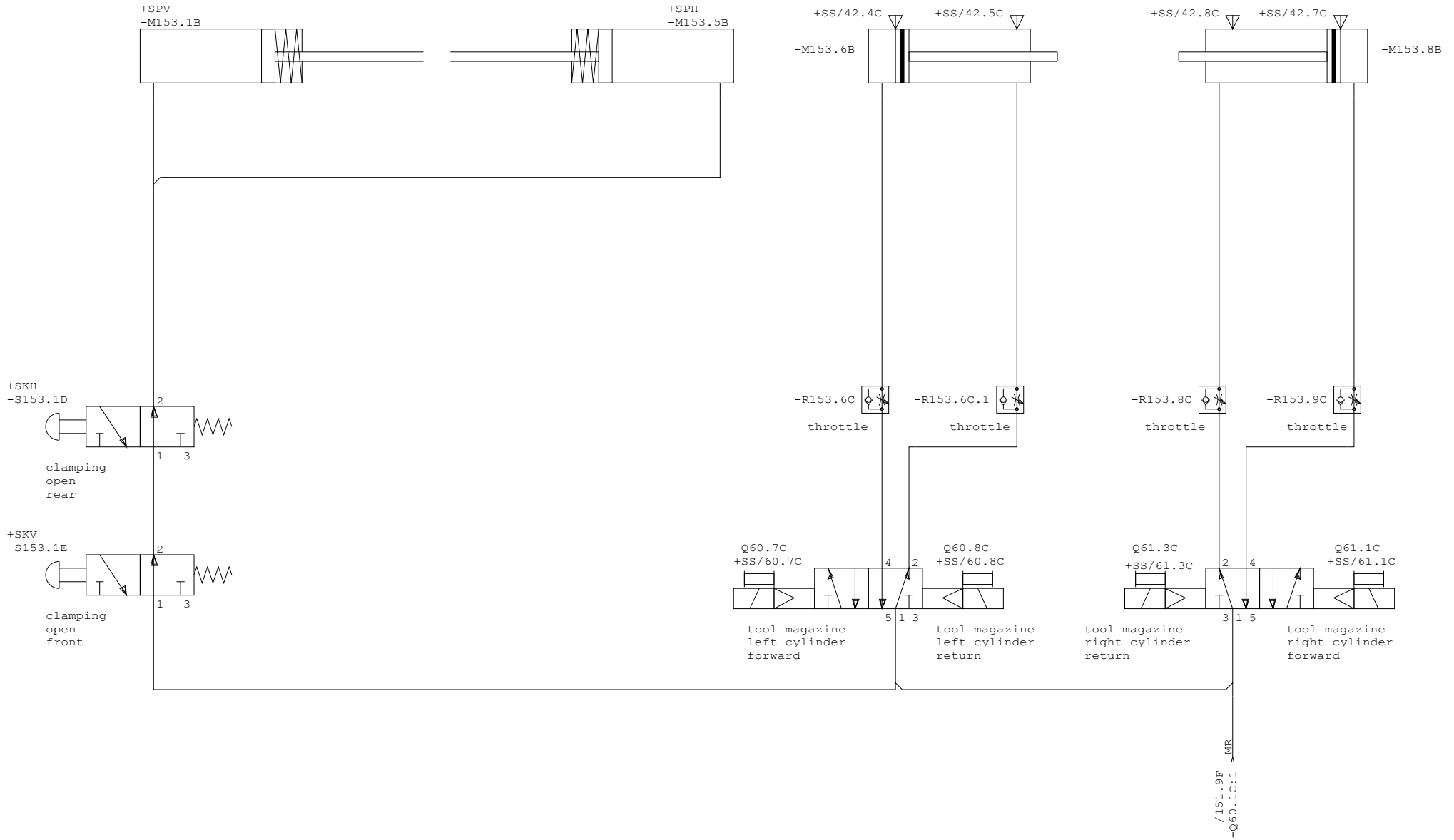
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edit.		WH				GANNER				Part list 0571-0170-V200		+ML	
Gepr.				machine number		Hermann Ganner Straße 1				Project name		Blatt 152	
change		Datum		Name		252.527 -		A-6410 Telfs		0571A030B V01.09		von 163	

Clamping front
bar pressing

Clamping rear
bar pressing

tool magazine
left cylinder

tool magazine
right cylinder



Datum		06.10.16		PROTEC 0571		GANNOMat		pneumatic diagram clamping bar		Project-no.: 0571A030B 405 V01.09		=ABFM	
edit.		WH				GANNER				Part list 0571-0170-V200		+MR	
Gepr.				machine number		Hermann Ganner Straße 1				Project name		Blatt 153	
change		Datum		Name		Norm		DIN 61346		252.527 -		von 163	

vertical\spindle FY1.1

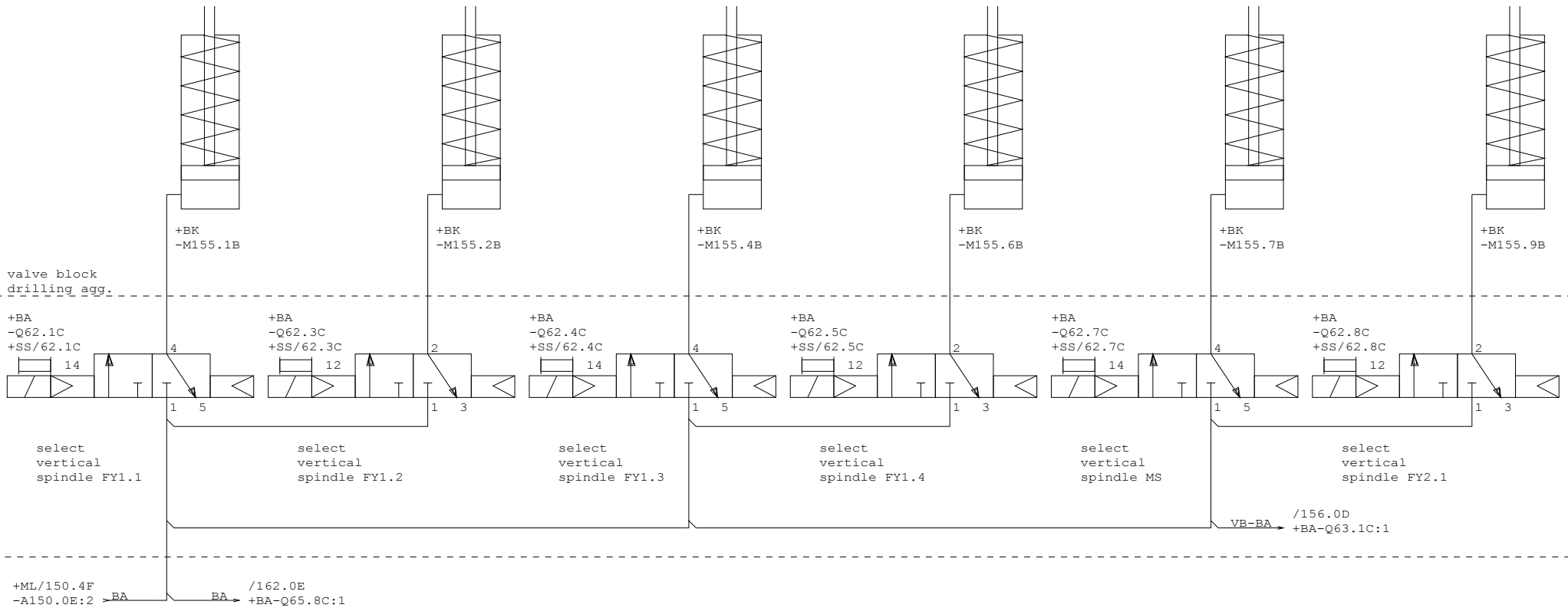
vertical\spindle FY1.2

vertical\spindle FY1.3

vertical\spindle FY1.4

vertical\spindle MS

vertical\spindle FY2.1



		Datum	06.10.16	PROTEC 0571	GANNOMAT	pneumatic diagram drill head	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+M
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 155
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs		0571A030B V01.09	von 163

vertical\spindle FY2.2

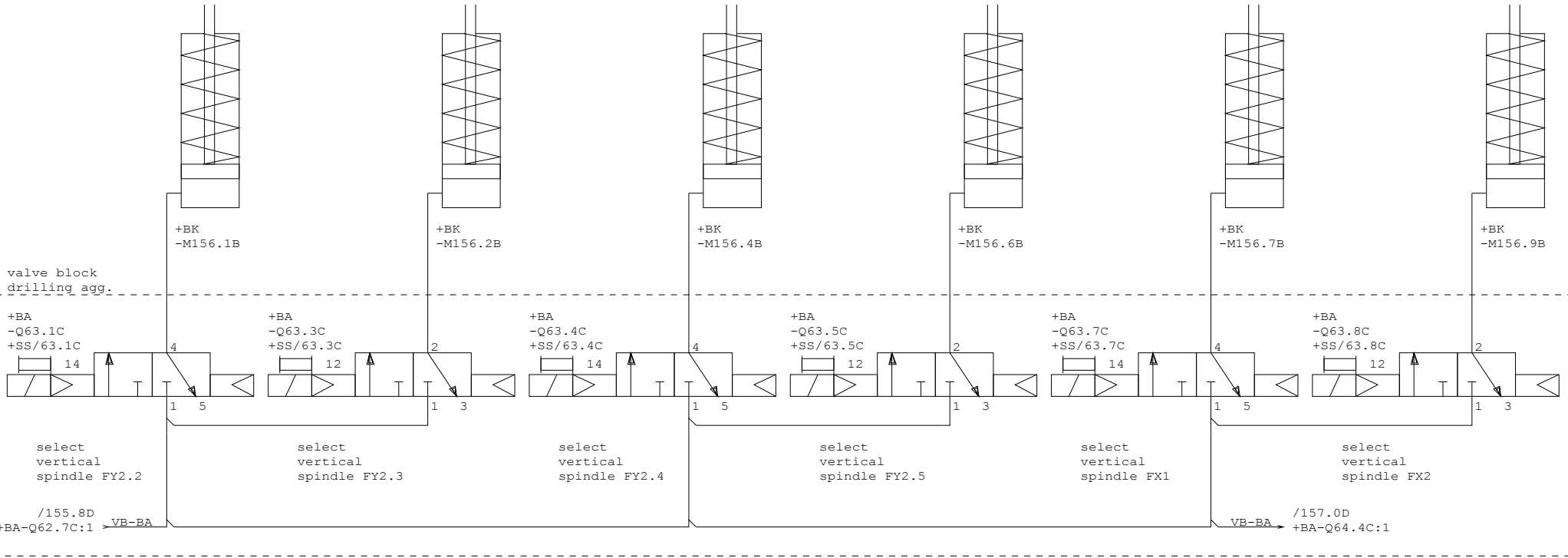
vertical\spindle FY2.3

vertical\spindle FY2.4

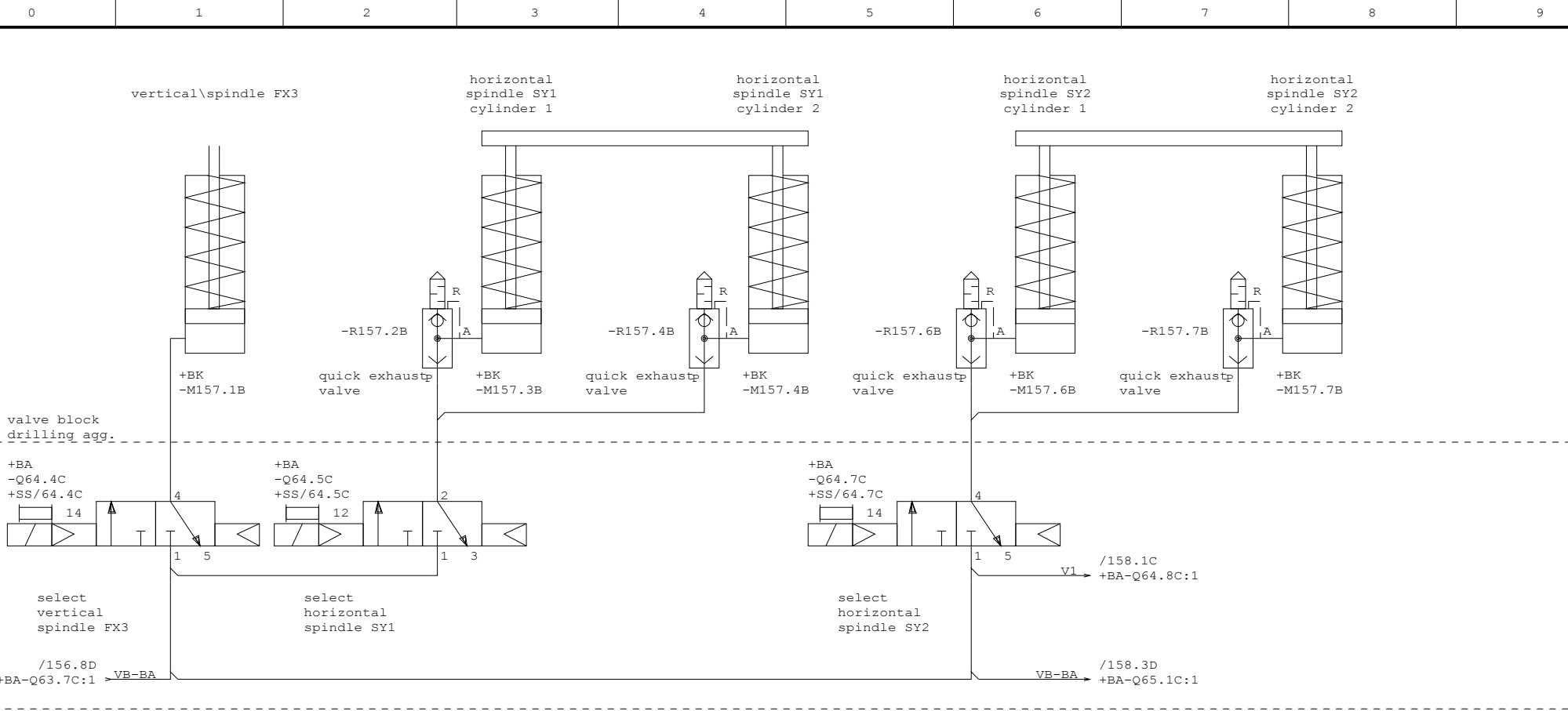
vertical\spindle FY2.5

vertical\spindle FX1

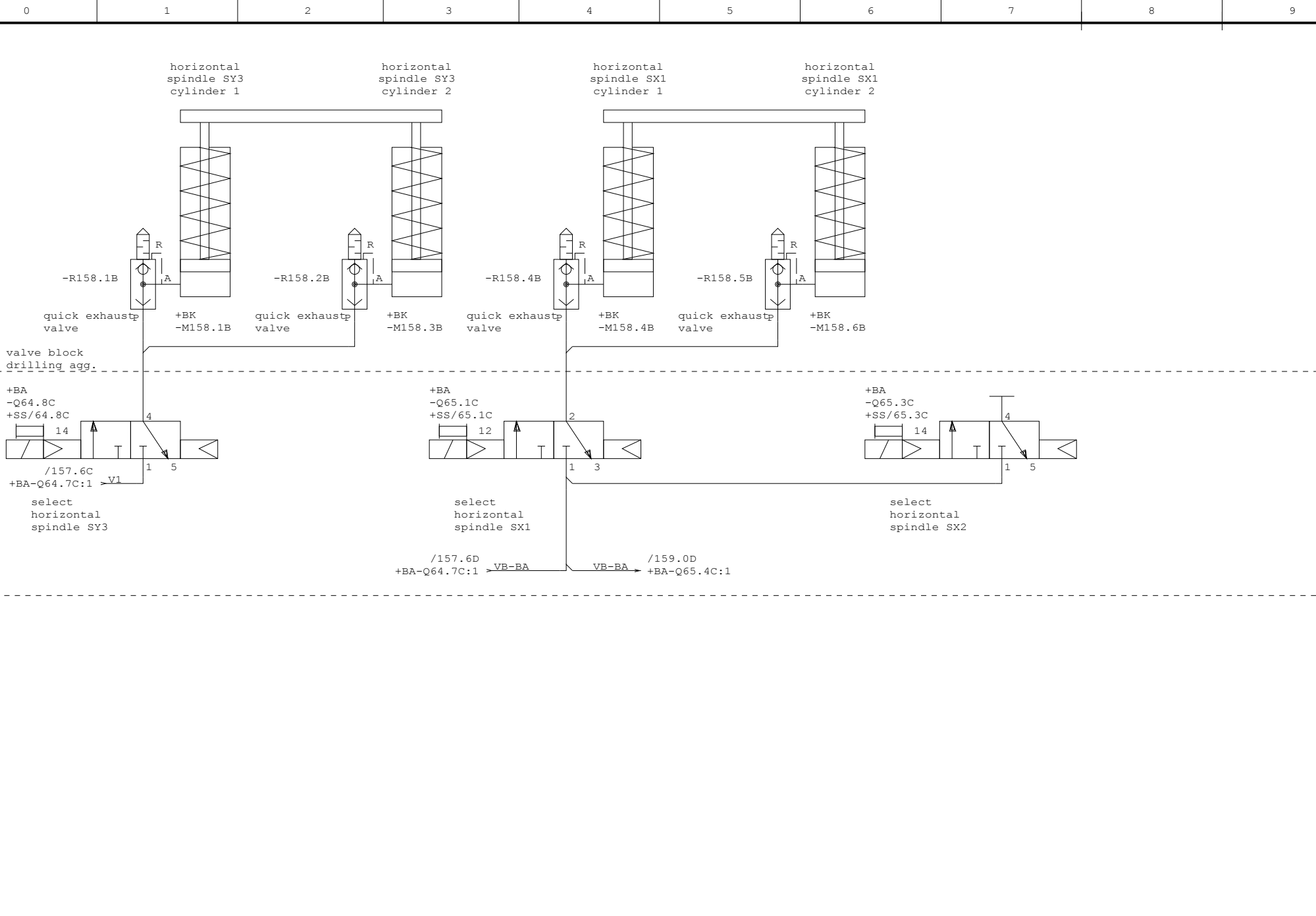
vertical\spindle FX2



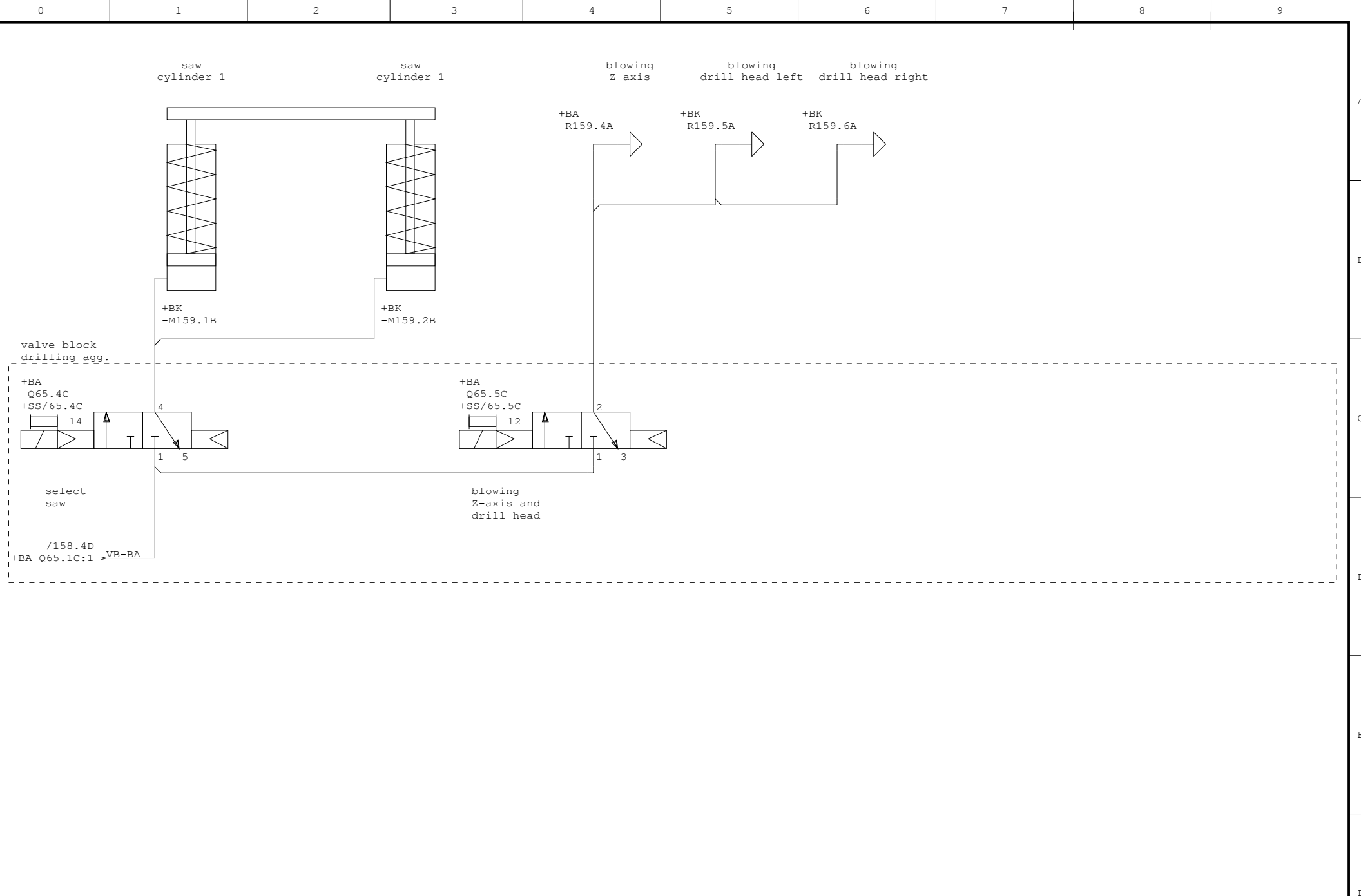
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		edit.	WH				Part list 0571-0170-V200	+M
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 156
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163



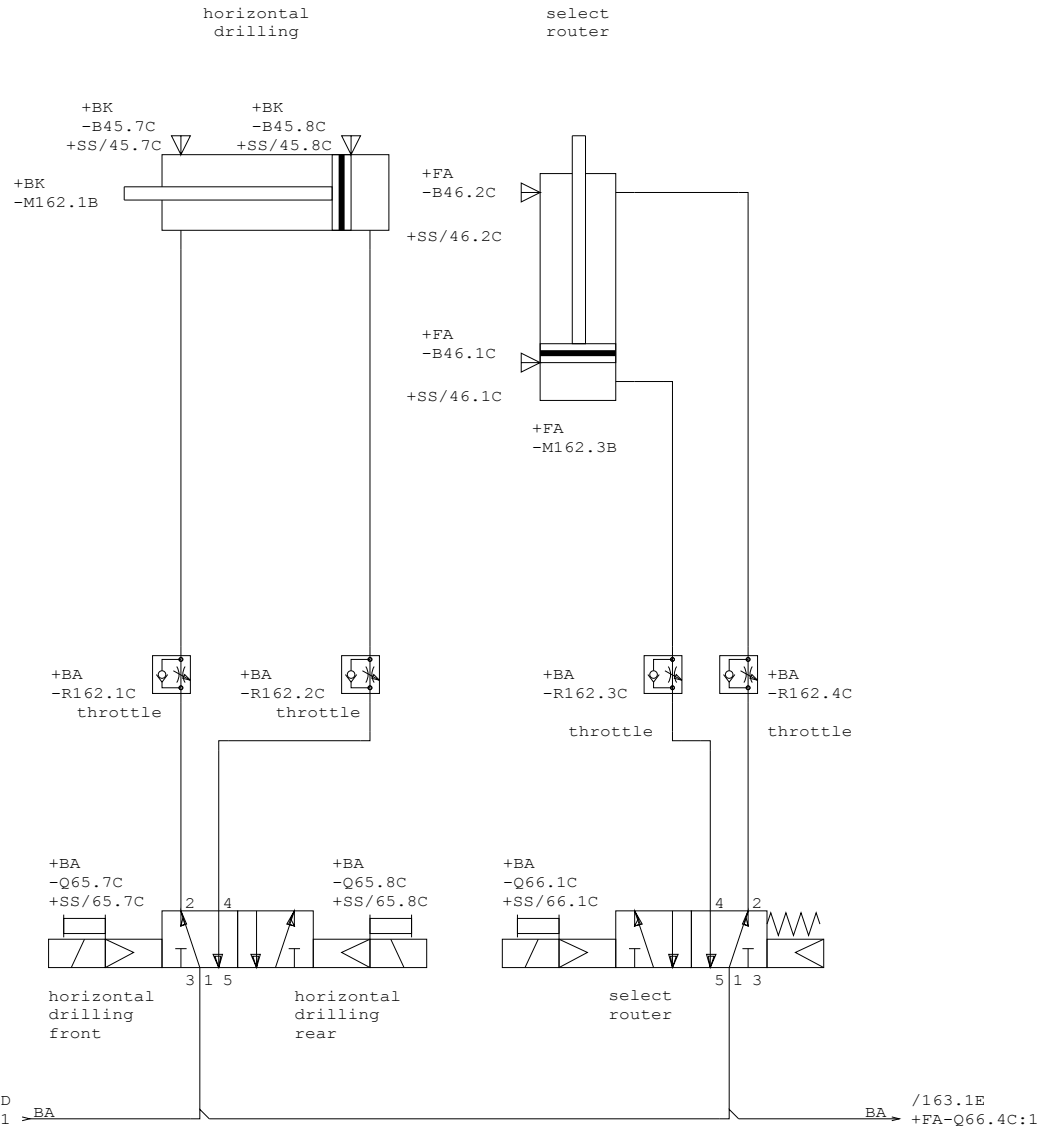
		Datum	06.10.16	PROTEC 0571		pneumatic diagram drill head	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+M
		Gepr.		machine number	Hermann Ganner Straße 1	Project name	Blatt 157	
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs	0571A030B V01.09	von 163	



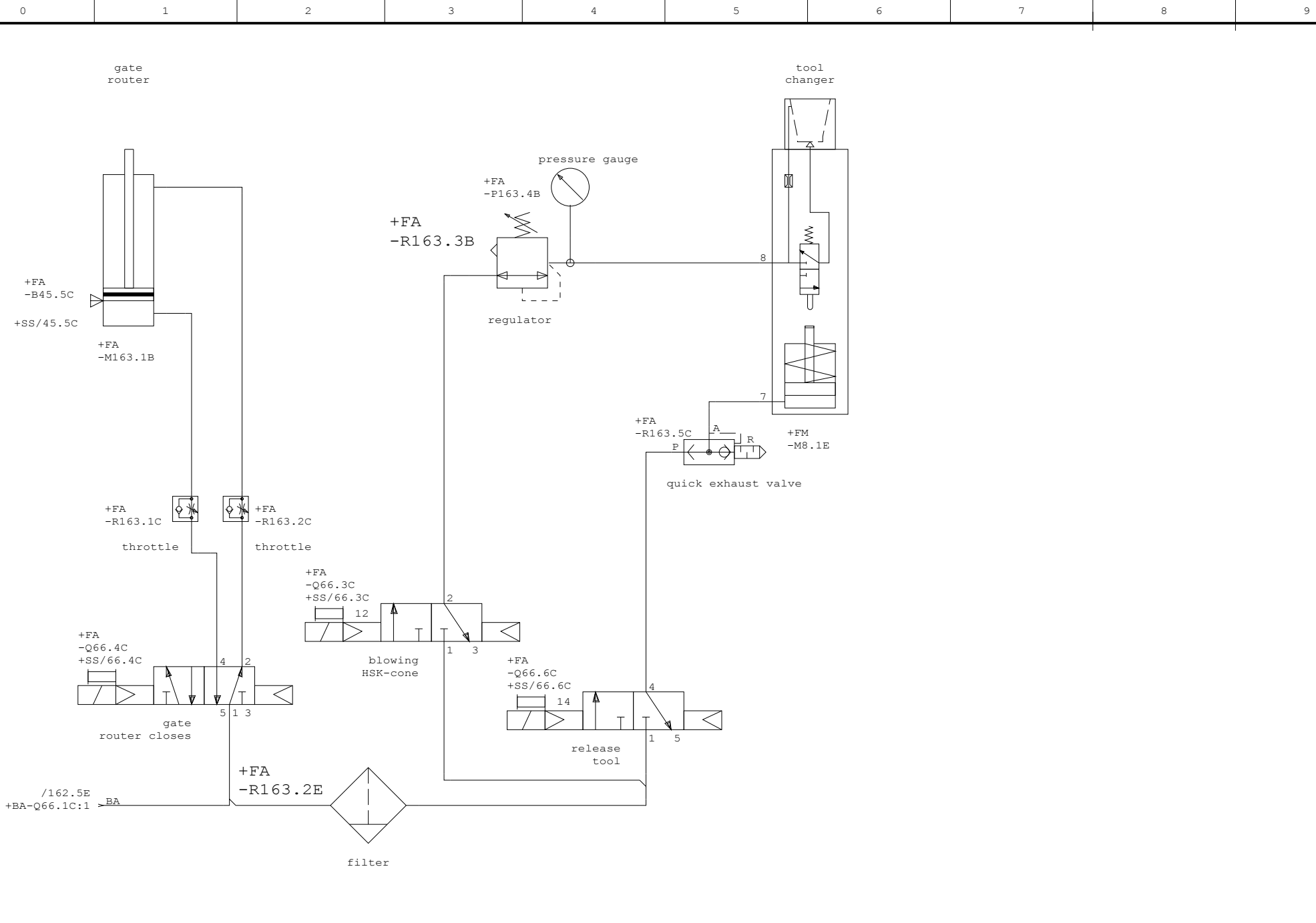
		Datum	06.10.16	PROTEC 0571	GANNOMAT	pneumatic diagram drill head	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+M
		Gepr.		machine number	Hermann Ganner Straße 1		Project name	Blatt 158
change	Datum	Name	Norm	DIN 61346	252.527 -	A-6410 Telfs	0571A030B V01.09	von 163



		Datum	06.10.16	PROTEC 0571	GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	pneumatic diagram drill head	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH	machine number			Part list 0571-0170-V200	+M
change	Datum	Name	Norm	DIN 61346	252.527 -		Project name	Blatt 159
							0571A030B V01.09	von 163



		Datum	06.10.16	PROTEC 0571	GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	pneumatic diagram drilling + routing	Project-no.: 0571A030B 405 V01.09	=ABFM
		edit.	WH				Part list 0571-0170-V200	+M
		Gepr.		machine number			Project name	Blatt 162
change	Datum	Name	Norm	DIN 61346	252.527 -		0571A030B V01.09	von 163



	Datum	06.10.16	PROTEC 0571	GANNOMAT	pneumatic diagram drilling + routing	Project-no.: 0571A030B 405 V01.09	=ABFM
	edit.	WH				GANNER	Part list 0571-0170-V200
	Gepr.		machine number	Herrmann Ganner Straße 1		Project name	Blatt 163
change	Datum	Name	Norm	DIN 61346	A-6410 Telfs	0571A030B V01.09	von 163

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terminal strip:=ABFM+SS-X1

cable identifier external				function text	destination external reference name	connection	terminal number	bar bridges	wire-bridges	destination internal reference name	connection	cable identifier internal				sheet/path =ABFM+SS-W29 3x0.75mm 16x0.34mm		
			=ABFM+SS-W1 4x1.5mm															
			=ABFM+SS-W13 3x0.75mm															
			=ABFM+SS-W18 3x1mm															
			=ABFM+SS-W19 3x1mm															
			=ABFM+SS-W14 4x0.25mm															
			=ABFM+SS-W15 18x0.75mm															
				workpiece length detection	-T6.1C	DI1	52			=ABFM+ML-XS4:2	4							/36.5E
				power supply			L1			-Q1.0C	1							/1.0D
				power supply			L2			-Q1.0C	3							/1.1D
				power supply			L3			-Q1.0C	5							/1.1D
				power supply			N			-X2	15							/1.1D
				power supply			PE	•		-X2	4A							/1.1D
				1 motor multi-sp. drill head	=ABFM+BA-XS1	1	1	•		-Q53.4D	2							/1.3D
				2 motor multi-sp. drill head	=ABFM+BA-XS1	2	2	•		-Q53.4D	4							/1.3D
				3 motor multi-sp. drill head	=ABFM+BA-XS1	3	3	•		-Q53.4D	6							/1.3D
				GNYE motor multi-sp. drill head	=ABFM+BA-XS1	PE	4	•										/1.3D
				1 lubrication motor	=ABFM+ML-M12.1E	1	5	•		-Q53.8D	1							/12.1D
				2 lubrication motor	=ABFM+ML-M12.1E	2	6	•		-Q53.8D	4							/12.1D
				GNYE lubrication motor	=ABFM+ML-M12.1E	PE	7	•										/12.2D
				BN power supply monitor	=ABFM+MR-P20.1B	L	8	•		-F20.1D	E1							/20.1C
				BU power supply monitor	=ABFM+MR-P20.1B	N	9	•		-F20.1D	E2							/20.1C
				GNYE power supply monitor	=ABFM+MR-P20.1B	PE	10	•		-K22.0C	PE							/20.1D
				BN power supply PC	-K20.3B	1	11	•		-X20.3E	1							/20.3C
				BU power supply PC	-K20.3B	2	12	•		-X20.3E	3							/20.3C
				GNYE power supply PC	-K20.3B	3	13	•		-X20.3E	2							/20.3D
				BN safety door	=ABFM+MR-XS1	1	14	•		-K16.1D	S11							/16.3A
				WH safety door	=ABFM+MR-XS1	2	15	•										/16.4A
				BK safety door	=ABFM+MR-XS1	4	16	•		-K16.1D	S12							/16.3C
				BU safety door	=ABFM+MR-XS1	3	17	•		-K16.1D	S13							/16.4C
				1 emergency button front	=ABFM+SKV-S17.4B	11	18	•		-K16.1D	13							/17.4A
				2 emergency button front	=ABFM+SKV-S17.4B	21	19	•		-K16.1D	23							/17.4A
				3 emergency button front	=ABFM+SKV-S17.4B	12	20	•		-X1	43							/17.5A
				4 emergency button front	=ABFM+SKV-S17.4B	22	21	•		-X1	44							/17.5A
				5 push button control on	=ABFM+SKV-S17.3D	3	22	•		-K17.2C	S33							/17.3D
				6 push button control on	=ABFM+SKV-S17.3D	4	23	•		-K17.2C	Y1							/17.3E
				7 light control on	=ABFM+SKV-S17.3D	X1	24	•		-K25.3C	5							/17.2D

date	06.10.16	PROTEC 0571	GANNOMAT	terminal diagram: =ABFM+SS-X1	Project-no.: 0571A030B 405 V01.09	Part list 0571-0170-V200	Project name: 0571A030B V01.09	=
edit.	WH							+
check		machine number	GANNER					sheet 1
change	date	name	norm	Hermann Ganner Straße 1				of 5
			DIN 61346	A-6410 Telfs				

terminal strip:=ABFM+SS-X1

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cable identifier external					function text	reference name	connection	terminal number	bar bridges	wire-bridges	reference name	connection	cable identifier internal					sheet/path
				=ABFM+SS-M15 18x0.75mm	8	indicator light error	=ABFM+SKV-P17.9D	X1 25			-K25.3C	2					/17.9B	
				=ABFM+SS-M16 12x0.75mm	9	control panel front 24VDC	=ABFM+SKV-S34.1C	3 26A	•		-K22.3C	6					/34.1B	
				=ABFM+SS-M34 2x0.75mm		control panel front 24VDC	-X1	47B 26B	•	•							/34.2B	
				=ABFM+SS-M24 16x0.34mm	10	control panel front 0VDC	=ABFM+SKV-S34.1C	X2 27A	•		-K25.1C	2					/34.1D	
						control panel front 0VDC		27B	•	•	-X1	48B					/34.2E	
					11	start push button front	=ABFM+SKV-S34.1C	4 28			-K22.6C	8					/34.1D	
					12	light start button front	=ABFM+SKV-S34.1C	X1 29			-K25.3C	6					/34.1B	
					GNYE	control panel front ground	=ABFM+SKV-X34.2C	PE 30	•								/34.2D	
					13	feed potentiometer	=ABFM+SKV-R49.1C	1 31			-T14.5C	+					/49.1D	
					14	feed potentiometer	=ABFM+SKV-R49.1C	2 32			-K22.8C	1					/49.1D	
					15	feed potentiometer	=ABFM+SKV-R49.1C	3 33			-K22.8C	2					/49.1D	
					1	emergency button rear	=ABFM+SKH-S17.6B	11 43		•	-X1	20					/17.6A	
					2	emergency button rear	=ABFM+SKH-S17.6B	21 44		•	-X1	21					/17.6A	
					3	emergency button rear	=ABFM+SKH-S17.6B	12 45			-K17.2C	S12					/17.6C	
					4	emergency button rear	=ABFM+SKH-S17.6B	22 46			-K17.2C	S22					/17.6C	
					5	control panel rear 24VDC	=ABFM+SKH-S34.3C	3 47A	•	•	-X1	57					/34.3B	
						control panel rear 24VDC	-X1	26B 47B	•	•							/34.2B	
					6	control panel rear 0VDC	=ABFM+SKH-S34.3C	X2 48A	•								/34.2D	
						control panel rear 0VDC		48B	•	•	-X1	27B					/34.2E	
					7	start push button rear	=ABFM+SKH-S34.3C	4 49			-K22.7C	1					/34.3D	
					8	light start button rear	=ABFM+SKH-S34.3C	X1 50			-K25.3C	3					/34.2B	
					GNYE	control panel rear ground	=ABFM+SKH-X34.3C	PE 51	•		-XS2	PE				GNYE	/34.3D	
						extraction		53			-K51.2D	11					/70.1D	
						extraction		54			-K51.2D	14					/70.1D	
					1	light machine	=ABFM+MR-E70.2C	1 55A	•		-K51.4D	14					/70.2B	
					1	light machine	=ABFM+MR-E70.3C	1 55B	•								/70.3B	
					2	light machine	=ABFM+MR-E70.2C	2 56A	•		-T14.5C	-					/70.2D	
					2	light machine	=ABFM+MR-E70.3C	2 56B	•								/70.3D	
					BU	thermal contact routing m.	=ABFM+FM-XS1	1 57	•	•	-X1	47A					/32.2A	
					GY	thermal contact routing m.	=ABFM+FM-XS1	5 58			-K22.6C	6					/32.2D	

date	06.10.16	PROTEC 0571	 GANNER Hermann Ganner Straße 1 A-6410 Telfs	terminal diagram:	Project-no.: 0571A030B 405 V01.09	=	
edit.	WH	machine number		=ABFM+SS-X1	Part list	0571-0170-V200	+
check		252.527 -			Project name:	0571A030B V01.09	sheet 2
change	date	name				of 5	

terminal strip:=ABFM+SS-X1

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cable identifier external				function text	destination external reference name	connection	terminal number	bar bridges	wire-bridges	destination internal reference name	connection	cable identifier internal				sheet/path
			=ABFM+SS-M24 1.6x0.34mm	YE	sensors routing motor +24VDC	=ABFM+FM-XS2	4	59	•	-X1	68A					/46.4A
				OR	sensors routing motor 0VDC	=ABFM+FM-XS2	6	60		-K29.3C	2					/46.4A
				BN	HSK cone clamped	=ABFM+FM-XS2	2	61		-K22.9C	5					/46.5D
				GN	chuck opened	=ABFM+FM-XS2	1	62		-K22.9C	2					/46.7D
				WH	standstill router	=ABFM+FM-XS2	3	63		-K22.9C	6					/46.8D
				RD	push button router change	=ABFM+FM-XS2	8	64		-K22.9C	3					/41.7D
			1		thermal contact brake resisto	=ABFM+ML-R4.1E	T1	68A	•	-X1	59					/32.4A
					pressure control			68B	•	-XS2	1			1		/32.5A
			2		thermal contact brake resisto	=ABFM+ML-R4.1E	T2	69A	•	-K22.6C	3					/32.4D
					thermal contact brake resisto			69B	•	-Q53.1D	A1					/53.1A

date	06.10.16	PROTEC 0571	 GANNER Hermann Ganner Straße 1 A-6410 Telfs	terminal diagram:	Project-no.: 0571A030B 405 V01.09	=
edit.	WH			=ABFM+SS-X1	Part list 0571-0170-V200	+
check		machine number			Project name:	sheet 3
change	date	name	DIN 61346	252.527 -	0571A030B V01.09	of 5

terminal strip:=ABFM+SS-X2

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cable identifier external				function text	destination external reference name	terminal number	bar bridges	wire-bridges	destination internal reference name	connection	cable identifier internal				sheet/path
			=ABFM+SS-W29 3x0.75mm 16x0.34mm	power supply	-Q1.0C	2	1A		-F1.3B	1				1	/1.0A
			=ABFM+SS-W30 3x0.75mm 16x0.34mm	lubrication motor			1B		-F12.1B	E1					/12.1A
			=ABFM+SS-W32 3x0.75mm 16x0.34mm	power supply	-Q1.0C	4	2A		-F1.3B	3				2	/1.1B
			=ABFM+SS-W31 3x0.75mm 16x0.34mm	power supply device 24VDC			2B		-F14.1B	E1					/14.1A
				power supply	-Q1.0C	6	3A		-F1.3B	5				3	/1.1B
				power supply device 10VDC			3B		-F14.5B	E1					/14.5A
				power supply modul servo driv	-T4.1D	PE	4A		-X1	PE					/4.1D
							4B								/4.1D
				ground cable entry sheet meta	-X4.1E	PE	5A		-T4.1D	PE					/4.1D
							5B								/4.1D
			YEGN	M12 distributor 1 machine lef	=ABFM+ML-XS4:1	5	9A		-T14.1C	PE					/36.2B
				M12 distributor 1 machine rig	=ABFM+MR-XS2:1	5	9B		-T14.1C	-					/41.2B
			YEGN	M12 distributor 1 drilling ag	=ABFM+BA-XS6:1	5	10A		-T14.5C	PE					/45.2B
				M12 distributor 2 drilling ag	=ABFM+BA-XS7:1	5	10B		-T14.5C	-					/64.1C
			YEGN	M12 distributor 2 machine rig	=ABFM+MR-XS3:1	5	11A								/42.2B
							11B								/42.2B
				lubrication motor	-Q53.8D	3	15		-X1	N					/12.1A
				power supply device 24VDC	-T14.1C	N	16A		-T14.5C	N					/14.1A
				monitor N			16B		-F20.1D	E4					/20.1E
				CPU PLC-controller	-K22.0C	U	21		-F14.1D	+24V					/22.0B
				PLC-inputs switch cabinet	-K22.1C	2	22								/22.2B
				servo drives 24VDC	-T4.1D	24E	25		-F14.1D	1					/4.3B
				brake servo drives 24VDC	-T5.1C	24E	26								/5.2A
				safety door	-K16.1D	A1	31		-F14.1D	2					/16.1B
				emergency stop device	-K17.2C	A1	32								/17.2A
				CPU PLC-controller	-K22.0C	0V	41A		-F14.1D	GND					/22.1B
				PLC-inputs switch cabinet	-K22.1C	3	41B		-K25.2C	3					/22.3B
				servo drives 0VDC	-T4.1D	GE	42A		-T5.1C	GE					/4.3B
				STO 0VDC servo drive X-Achse	-T5.1C	GS	42B		-T5.1C	GO					/5.4C
				STO 0VDC servo drive Y-Achse	-T6.1C	GS	43A		-T6.1C	GO					/6.4C

date	06.10.16	PROTEC 0571	GANNOMAT	terminal diagram: =ABFM+SS-X2	Project-no.: 0571A030B 405 V01.09	=
edit.	WH					
check		machine number	GANNER Hermann Ganner Straße 1 A-6410 Telfs		Part list 0571-0170-V200	+
change	date	name				
						sheet 4
						of 5

terminal strip:=ABFM+SS-X2

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cable identifier external								function text	destination external			bar bridges	wire-bridges	destination internal		cable identifier internal				sheet/path
									reference name	connection	terminal number			reference name	connection					
								STO 0VDC servo drive Z-Achse	-T6.1C	GS	43B		-T6.1C	GO					/7.4C	
								STO 0VDC servo drive router	-T8.1C	GS	44A		-T8.1C	GO					/8.4C	
								safety door	-K16.1D	A2	44B		-K17.2C	A2					/16.1E	
								SIA servo drive X-axis	-T5.1C	SIA	51A		-K17.2C	58					/5.4B	
								SIA servo drive Y-axis	-T6.1C	SIA	51B		-T6.1C	SIA					/6.4B	
								SIA servo drive router	-T8.1C	SIA	52A								/8.4B	
											52B								/8.5B	
								SIB servo drive X-axis	-T5.1C	SIB	61A		-K17.2C	68					/5.5B	
								SIB servo drive Y-axis	-T6.1C	SIB	61B		-T6.1C	SIB					/6.5B	
								SIB servo drive router	-T8.1C	SIB	62A								/8.5B	
											62B								/8.5B	

date	06.10.16	PROTEC 0571	 GANNER Hermann Ganner Straße 1 A-6410 Telfs	terminal diagram:	=ABFM+SS-X2	Project-no.: 0571A030B 405 V01.09	=	
edit.	WH				Part list	0571-0170-V200		+
check		machine number			Project name:	0571A030B V01.09		sheet
change	date	name	norm	DIN 61346	252.527 -		of	5

cable list PROTEC 0571

Protec

Technology:

D

E

F

No.	field device	target designation	cable identifier	cable type	number vein	cable length	internal device
1	=ABFM+BK-M1.3E	drill motor multi spindle drill head	=ABFM+BA-W1	ÖLFLEX-SERVO-780 P 4x1.5mm²	4	0.5m	=ABFM+BA-XS1
2	=ABFM+BA-XS6:1S1	refernce control Z-axis	=ABFM+BA-W2	7000-40121-614 0030-K	4	0.3m	=ABFM+BA-XS6:1.1
3	=ABFM+FA-XS6:1S2	gate router bottom	=ABFM+BA-W3	7000-40561-610 0060-K	3	0.6m	=ABFM+BA-XS6:1.2
4	=ABFM+BA-XS6:2S1	horizontal drilling depth rear	=ABFM+BA-W4	7000-40821-610 0060-K	3	0.6m	=ABFM+BA-XS6:2
5	=ABFM+BA-XS6:2S2	horizontal drilling depth front	=ABFM+BA-W5	7000-40821-610 0060-K	3	0.6m	=ABFM+BA-XS6:2
6	=ABFM+FA-XS7:8S1	routing aggregate down	=ABFM+BA-W6	7000-40821-610 0060-K	3	0.3m	=ABFM+BA-XS7:8
7	=ABFM+FA-XS7:8S2	routing aggregate top	=ABFM+BA-W7	7000-40821-610 0060-K	3	0.3m	=ABFM+BA-XS7:8
8	=ABFM+BA-XS6:3S1	select vertical spindle FY1.1	=ABFM+BA-W8	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:3
9	=ABFM+BA-XS6:3S2	select vertical spindle FY1.2	=ABFM+BA-W9	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:3
10	=ABFM+BA-XS6:4S1	select vertical spindle FY1.3	=ABFM+BA-W10	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:4
11	=ABFM+BA-XS6:4S2	select vertical spindle FY1.4	=ABFM+BA-W11	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:4
12	=ABFM+BA-XS6:5S1	select vertical center spindle MS	=ABFM+BA-W12	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:5
13	=ABFM+BA-XS6:5S2	select vertical spindle FY2.1	=ABFM+BA-W13	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:5
14	=ABFM+BA-XS6:6S1	select vertical spindle FY2.2	=ABFM+BA-W14	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:6
15	=ABFM+BA-XS6:6S2	select vertical spindle FY2.3	=ABFM+BA-W15	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:6
16	=ABFM+BA-XS6:7S1	select vertical spindle FY2.4	=ABFM+BA-W16	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:7
17	=ABFM+BA-XS6:7S2	select vertical spindle FY2.5	=ABFM+BA-W17	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:7
18	=ABFM+BA-XS6:8S1	select vertical spindle FX1	=ABFM+BA-W18	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:8
19	=ABFM+BA-XS6:8S2	select vertical spindle FX2	=ABFM+BA-W19	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS6:8
20	=ABFM+BA-XS7:1S1	select vertical spindle FX3	=ABFM+BA-W20	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:1
21	=ABFM+BA-XS7:1S2	select horizontal spindle SY1	=ABFM+BA-W21	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:1
22	=ABFM+BA-XS7:2S1	select horizontal spindle SY2	=ABFM+BA-W22	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:2
23	=ABFM+BA-XS7:2S2	select horizontal spindle SY3	=ABFM+BA-W23	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:2
24	=ABFM+BA-XS7:3S1	select horizontal spindle SX1	=ABFM+BA-W24	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:3
25	=ABFM+BA-XS7:3S2	select horizontal spindle SX2	=ABFM+BA-W25	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:3
26	=ABFM+BA-XS7:4S1	select saw	=ABFM+BA-W26	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:4
27	=ABFM+BA-XS7:4S2	blowing Z-axis	=ABFM+BA-W27	7000-40841-610 0030-K	3	0.3m	=ABFM+BA-XS7:4
28	=ABFM+BA-XS7:5S1	horizontal drilling front	=ABFM+BA-W28	7000-40821-610 0060-K	3	0.6m	=ABFM+BA-XS7:5
29	=ABFM+BA-XS7:5S2	horizontal drilling rear	=ABFM+BA-W29	7000-40821-610 0060-K	3	0.6m	=ABFM+BA-XS7:5
30	=ABFM+BA-XS7:6S1	select router	=ABFM+BA-W30	7000-40841-610 0060-K	3	0.6m	=ABFM+BA-XS7:6
31	=ABFM+FA-XS7:7S1	closing gate rauter	=ABFM+BA-W31	7000-40841-610 0060-K	3	0.6m	=ABFM+BA-XS7:7
32	=ABFM+FA-XS7:7S2	release tool	=ABFM+BA-W32	7000-40841-610 0060-K	3	0.6m	=ABFM+BA-XS7:7
33	=ABFM+FA-XS7:6S2	blowing HSK-cone	=ABFM+BA-W33	7000-40841-610 0060-K	3	0.6m	=ABFM+BA-XS7:6
34	=ABFM+ML-XS4:1S	workpiece length detection front sender	=ABFM+ML-W1	7000-40621-611 0100-K	4	1m	=ABFM+ML-XS4:1
35	=ABFM+ML-XS4:2S	workpiece length detection front receiv	=ABFM+ML-W2	7000-40581-611 0100-K	4	1m	=ABFM+ML-XS4:2
36	=ABFM+ML-XS4:5S1	air jet table front	=ABFM+ML-W4	7000-41611-617 0100-K	4	1m	=ABFM+ML-XS4:5
37	=ABFM+ML-XS4:3S1	workp. clamping pre pressure	=ABFM+ML-W5	7000-40841-610 0030-K	3	0.3m	=ABFM+ML-XS4:3
38	=ABFM+ML-XS4:3S2	workp. clamping main press.	=ABFM+ML-W6	7000-40841-610 0030-K	3	0.3m	=ABFM+ML-XS4:3
39	=ABFM+ML-XS4:4S1	blowing gripper	=ABFM+ML-W7	7000-40841-610 0030-K	3	0.3m	=ABFM+ML-XS4:4

date	06.10.16	PROTEC 0571	 GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	cable list	Project-no.: 0571A030B 405 V01.09	=
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cable list PROTEC 0571

Protec

Technology:

D

E

F

No.	field device	target designation	cable identifier	cable type	number vein	cable length	internal device
40	=ABFM+ML-XS4:4S2	stop front	=ABFM+ML-W8	7000-40841-610 0030-K	3	0.3m	=ABFM+ML-XS4:4
41	=ABFM+ML-XS4:5S2	air jet table rear	=ABFM+ML-W9	7000-41611-617 0100-2K	3	0.2m	=ABFM+ML-XS4:5S1
42	=ABFM+ML-XS4:6S1	stop rear	=ABFM+ML-W10	7000-40601-610 0030-K	3		=ABFM+ML-XS4:6
43	=ABFM+ML-XS4:7S1	lock valve clamps front	=ABFM+ML-W11	7000-40841-610 0030-K	3		=ABFM+ML-XS4:7
44	=ABFM+ML-XS4:7S2	lock valve clamps rear	=ABFM+ML-W12	7000-40841-610 0030-K	3		=ABFM+ML-XS4:7
45	=ABFM+MR-S41.4C	push button tool change	=ABFM+MR-W1	7000-12021-614 0150-K	4	1m	=ABFM+MR-XS2:1
46	=ABFM+MR-XS3:1S1	tool magazine left cylinder rear	=ABFM+MR-W2	7000-40821-610 0100-K	3	1m	=ABFM+MR-XS3:1
47	=ABFM+MR-XS3:1S2	tool magazine left cylinder front	=ABFM+MR-W3	7000-40821-610 0100-K	3	1m	=ABFM+MR-XS3:1
48	=ABFM+MR-XS3:2S1	tool magazine right cylinder rear	=ABFM+MR-W4	7000-40821-610 0060-K	3	0.6m	=ABFM+MR-XS3:2
49	=ABFM+MR-XS3:2S2	tool magazine right cylinder front	=ABFM+MR-W5	7000-40821-610 0060-K	3	0.6m	=ABFM+MR-XS3:2
50	=ABFM+MR-XS3:3S1	router in the tool magazine 1	=ABFM+MR-W6	7000-40761-613 0150-K	4	1.5m	=ABFM+MR-XS3:3
51	=ABFM+MR-XS3:3S2	router in the tool magazine 2	=ABFM+MR-W7	7000-40761-613 0150-K	4	1.5m	=ABFM+MR-XS3:3
52	=ABFM+MR-XS3:4S	router in the tool magazine 3	=ABFM+MR-W8	7000-40121-614 0100-K	4	1m	=ABFM+MR-XS3:4
53	=ABFM+MR-XS2:2S1	clamp front pre press.	=ABFM+MR-W9	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:2
54	=ABFM+MR-XS2:2S2	clamp 1 front	=ABFM+MR-W10	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:2
55	=ABFM+MR-XS2:3S1	clamp 2 front	=ABFM+MR-W11	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:3
56	=ABFM+MR-XS2:3S2	clamp 3 front	=ABFM+MR-W12	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:3
57	=ABFM+MR-XS2:4S1	clamp rear pre press.	=ABFM+MR-W13	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:4
58	=ABFM+MR-XS2:4S2	clamp 1 rear	=ABFM+MR-W14	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:4
59	=ABFM+MR-XS2:5S1	clamp 2 rear	=ABFM+MR-W15	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:5
60	=ABFM+MR-XS2:5S2	clamp 3 rear	=ABFM+MR-W16	7000-40841-610 0060-K	3	0.6m	=ABFM+MR-XS2:5
61	=ABFM+MR-XS2:6S1	counter pressure device	=ABFM+MR-W17	7000-40601-610 0060-K	3	0.6m	=ABFM+MR-XS2:6
62	=ABFM+MR-XS2:7S1	tool magazine left cylinder forward	=ABFM+MR-W18	7000-40601-610 0060-K	3	0.6m	=ABFM+MR-XS2:7
63	=ABFM+MR-XS2:7S2	tool magazine left cylinder return	=ABFM+MR-W19	7000-40601-610 0060-K	3	0.6m	=ABFM+MR-XS2:7
64	=ABFM+MR-XS2:8S1	tool magazine right cylinder forward	=ABFM+MR-W20	7000-40601-610 0060-K	3	0.6m	=ABFM+MR-XS2:8
65	=ABFM+MR-XS2:8S2	tool magazine right cylinder return	=ABFM+MR-W21	7000-40601-610 0060-K	3	0.6m	=ABFM+MR-XS2:8
66	=ABFM+SS-X2	power supply	=ABFM+SS-WV1	LAD-34	3		=ABFM+SS-F1.3B
67	=ABFM+SS-Q53.2D	emergency stop relay drill motor	=ABFM+SS-WV2	LAD-34	3		=ABFM+SS-F1.3B
68	=ABFM+SS-F4.1B	power supply servo drive	=ABFM+SS-WV3	LAD-34	3		=ABFM+SS-F1.3B
69	=ABFM+SS-Q53.1D	power relay drives	=ABFM+SS-WV4	LAD-34	3		=ABFM+SS-F4.1B
70	=ABFM+BA-XS1	motor multi-sp. drill head	=ABFM+SS-W1	ÖLFLEX-SERVO-780 P 4x1.5mm ²	4	4m	=ABFM+SS-X1
71	=ABFM+ML-R4.1E	brake resistor	=ABFM+SS-W2	ÖLFLEX-115 CY 4G6mm ²	4	2m	=ABFM+SS-T4.1D
72	=ABFM+SS-T5.1C	servo drive X-axis	=ABFM+SS-W3	ZK1090-9191-0020	1	2m	=ABFM+SS-K22.0C
73	=ABFM+BA-XS2	servo motor X-axis	=ABFM+SS-W4	EWLM005GMS010	6	5m	=ABFM+SS-T5.1C
74	=ABFM+BA-XS3	resolver servo motor X-axis	=ABFM+SS-W5	EWLR005GMST	8	5m	=ABFM+SS-XS17
75	=ABFM+SS-T6.1C	servo drive Y-axis	=ABFM+SS-W6	ZK1090-9191-0002	1	0.2m	=ABFM+SS-T5.1C
76	=ABFM+ML-XS1	servo motor Y-axis	=ABFM+SS-W7	EWLM002GM-015C	6	2m	=ABFM+SS-T6.1C
77	=ABFM+ML-XS2	resolver servo motor Y-axis	=ABFM+SS-W8	EWLR002GM-TSO	8	2m	=ABFM+SS-XS27
78	=ABFM+BA-XS4	servo motor Z-axis	=ABFM+SS-W9	EWLM005GMS010	6	5m	=ABFM+SS-T6.1C

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			check		machine number			Project name:	sheet 2
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part list						Page 1
No.	Piece	designation	article number part number	producer supplier	relation names	
1	2	sensor mag. for T-nut cable 300mm plug M8	BMF00C4 EA0B187	Balluff	=ABFM+BK-B45.7C, =ABFM+BK-B45.8C	
2	7	sensor mag. for C-nut cable 300mm plug M8	BMF00EL EA0B185	Balluff	=ABFM+MR-B42.4C, =ABFM+MR-B42.5C	
					=ABFM+MR-B42.7C, =ABFM+MR-B42.8C	
					=ABFM+FA-B46.1C, =ABFM+FA-B46.2C	
					=ABFM+FA-B45.5C	
3	0,4 m	patch cable	ZK1090-9191-0002 FC0A681	Beckhoff	=ABFM+SS-W6, =ABFM+SS-W11	
4	6 m	patch cable	ZK1090-9191-0020 FC0A682	Beckhoff	=ABFM+SS-W3, =ABFM+SS-W21, =ABFM+SS-W22	
5	1	grease pump 230VAC	28100002 JA0D702	Beka	=ABFM+ML-M12.1E	
6	8	one-way throttle valve 1/8" connection ø 6mm	TMVU 974-1/8-6 EB0E136	Camozzi	=ABFM+FA-R163.1C, =ABFM+MR-R153.6C	
					=ABFM+MR-R153.7C, =ABFM+MR-R153.8C	
					=ABFM+MR-R153.9C, =ABFM+BA-R162.1C	
					=ABFM+BA-R162.2C, =ABFM+BA-R162.3C	
7	1	flute motor EM48 1,5kW 230/400V 50/60Hz	070090001	CEG	=ABFM+BK-M1.3E	
8	23	spindle Fam drill head B-1341	0571-Spindel	FAM	=ABFM+BK-M155.1B, =ABFM+BK-M155.2B	
					=ABFM+BK-M155.4B, =ABFM+BK-M155.6B	
					=ABFM+BK-M155.7B, =ABFM+BK-M155.9B	
					=ABFM+BK-M156.1B, =ABFM+BK-M156.2B	
					=ABFM+BK-M156.4B, =ABFM+BK-M156.6B	

change	date	name	norm	DIN 61346	PROTEC 0571	 GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	part list	Project-no.: 0571A030B 405 V01.09	=
			edit.	WH	machine number		252.527 -	Part list 0571-0170-V200	+
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part list						Page 2
No.	Piece	designation	article number part number	producer supplier	relation names	
					=ABFM+BK-M156.7B,=ABFM+BK-M156.9B	
					=ABFM+BK-M157.1B,=ABFM+BK-M157.3B	
					=ABFM+BK-M157.4B,=ABFM+BK-M157.6B	
					=ABFM+BK-M157.7B,=ABFM+BK-M158.1B	
					=ABFM+BK-M158.3B,=ABFM+BK-M158.4B	
					=ABFM+BK-M158.6B,=ABFM+BK-M159.1B	
					=ABFM+BK-M159.2B	
9	1	cylinder ø=40mm stroke=50mm	ADN-40-50-A-P-A EA0B291	Festo	=ABFM+BK-M162.1B	
10	2	roller lever	AR-01 EB0B172	Festo	=ABFM+SPV-R151.1C,=ABFM+SPH-R151.5C	
11	2	one-way throttle valve	GRLA M5-QS4-RS-D EB0E126	Festo	=ABFM+FA-R163.2C,=ABFM+BA-R162.4C	
12	2	OR-gate	OS-PK-3 EB0E260	Festo	=ABFM+MR-K151.1C,=ABFM+MR-K151.6C	
13	3	quick exhaust valve with muffler	SEU-1/8 EB0E320	Festo	=ABFM+ML-R150.8B,=ABFM+ML-R150.4C	
					=ABFM+FA-R163.4C	
14	2	stem actuated valve 3/2	V/O-3-1/8 EB0B170	Festo	=ABFM+SPV-R151.1C,=ABFM+SPH-R151.5C	
15	1	solenoid valve 2x3/2 NO/NO monastable 24VDC M8 plug BG10	VUVG-L10-T32U-AT-M5-1R8L EC0B200	Festo Goobay	=ABFM+ML-Q57.4C	
16	3	solenoid valve 5/2 bistable 24VDC M8 plug BG14	VUVG-L14 B52-AT-G18-1R8L EC0B320	Festo	=ABFM+MR-Q60.7C,=ABFM+MR-Q61.1C	
					=ABFM+BA-Q65.7C	
17	6	solenoid valve 5/2 monostable 24VDC M8 plug BG14	VUVG-L14 M52-AT-G18-1R8L EC0B310	Festo	=ABFM+ML-Q56.3C,=ABFM+ML-Q56.5C	

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part list					Page 3
No.	Piece	designation	article number part number	producer supplier	relation names
					=ABFM+MR-Q60.4C, =ABFM+BA-Q66.1C
					=ABFM+FA-Q66.4C, =ABFM+ML-Q57.1C
18	3	soleniod valve 2x3/2 NC/NC monastable 24VDC M8 plug BG14	VUVG-L14-T32C-AT-G18-1R8L ECOB330	Festo	=ABFM+MR-Q60.1C, =ABFM+MR-Q59.4C
					=ABFM+FA-Q66.6C
19	3	soleniod valve 2x3/2 NC/NO monastable 24VDC M8 plug BG14	VUVG-L14-T32H-AT-G18-1R8L ECOB350	Festo	=ABFM+ML-Q56.1C, =ABFM+MR-Q59.1C
					=ABFM+MR-Q59.7C
20	10	soleniod valve 2x3/2 NC/NC monastable 24VDC M8 plug BG10	VUVG-S10-T32C-AT-M5-1R8L ECOB340	Festo	=ABFM+BA-Q62.1C, =ABFM+BA-Q62.4C
					=ABFM+BA-Q62.7C, =ABFM+BA-Q63.1C
					=ABFM+BA-Q63.4C, =ABFM+BA-Q63.7C
					=ABFM+BA-Q64.4C, =ABFM+BA-Q64.7C
					=ABFM+BA-Q65.1C, =ABFM+BA-Q65.4C
21	1	office PC DualCore 2,5GHz, 4GB RAM, 500GB HD	P420 C13 4130 FN0A204	Fujitsu-Siemens ACP	=ABFM+SS-K20.3B
22	1	TFT monitor E20T-7 LED 19,5" 16:9	S26361-K1538-V160 FN0A600	Fujitsu-Siemens ACP	=ABFM+MR-P20.1B
23	2	air jet table 1000mm width	0570-0010-V031	Ganner	=ABFM+MV-M152.2A, =ABFM+MH-M152.3A
24	3	blowing block ProTec	0570-0030-0250	Ganner	=ABFM+BA-R159.4A, =ABFM+BK-R159.5A
					=ABFM+BK-R159.6A
25	4	cylinder ø=32mm stroke=20mm	0571-0070-V990	Ganner	=ABFM+MV-M152.5B, =ABFM+MV-M152.6B
					=ABFM+MH-M152.7B, =ABFM+MH-M152.8B

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part list			Page 4		
No.	Piece	designation	article number part number	producer supplier	relation names
26	2	LED flex stripe warm white 500cm 300 LEDs	LED STR 300 WW FCOE200	Goobay Reichelt	=ABFM+MR-E70.2C, =ABFM+MR-E70.3C
27	1	cable socket STAK 3 N 3P+PE	110181 FI0A205	Hirschmann Distrelec	=ABFM+BA-XS1
28	1	cable plug STAS 3 N 3P+PE	110185 FI0A204	Hirschmann Distrelec	=ABFM+BA-XS1
29	1	security guard STASI 3 N	110189 FI0A206	Hirschmann Distrelec	=ABFM+BA-XS1
30	5 m	4x6mm 2x0.5mm	2131A0328	HSD	=ABFM+SS-W12
31	5 m	16x0.34mm	2131A0332	HSD	=ABFM+SS-W24
32	1	socket sensor cable HSD 22poles	2138H0006	HSD	=ABFM+FM-XS2
33	1	socket motor cable HSD 9polig	2138H0007	HSD	=ABFM+FM-XS1
34	1	sensor S1 inductiv tool changer	41805006	HSD	=ABFM+FM-B1
35	1	sensor S2 inductiv tool changer	4180500601	HSD	=ABFM+FM-B2
36	1	sensor S3 inductiv tool changer	4180500602	HSD	=ABFM+FM-B3
37	1	sensor S4 inductiv tool changer	5664H0016	HSD	=ABFM+FM-B4
38	1	3ph motor 5.5kW 380V 600Hz	H6161H0903 FA0B968	HSD	=ABFM+FM-M8.1E
39	1	plug motor cable HSD 9 poles	H6161H0903-M-ST	HSD	=ABFM+FM-XS1
40	1	plug sensor cable HSD 22 poles	H6161H0903-S-ST	HSD	=ABFM+FM-XS2
41	1	pressure switch NO adjustable 1-10 bar	804-10-Schliesser EC0A130	Konstandin	=ABFM+SS-B32.5C
42	2	cylinder ø=63mm stroke=10mm	KHZ3063/10 EA0B153	Konstandin	=ABFM+SPV-M153.1B, =ABFM+SPH-M153.5B
43	2 m	3x1.5mm	H05VV-F 3 G 1.5 black FI0B180	Lapp Kabel G 3	=ABFM+SS-W23

		date	06.10.16	PROTEC 0571	GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	part list	Project-no.: 0571A030B 405 V01.09	=
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part list

No.	Piece	designation	article number part number	producer supplier	relation names
44	5,5 m	12x0.75mm	NYSYÖ-J 12x0.75mm² Ölflex 110/03 FI0B201	Lapp Kabel G 3	=ABFM+SS-W16
45	4,5 m	18x0.75mm	NYSYÖ-J 18x0.75mm² Ölflex 110/03 FI0B113	Lapp Kabel G 3	=ABFM+SS-W15
46	7 m	3x0.75mm	NYSYÖ-J 3x0.75mm² Ölflex 110/03 FI0B131	Lapp Kabel G 3	=ABFM+SS-W13,=ABFM+SS-W26
47	12 m	2x0.75mm	NYSYÖ-O 2x0.75mm² Ölflex 110/03 FI0B120	Lapp Kabel G 3	=ABFM+SS-W25,=ABFM+SS-W34,=ABFM+SS-W35
48	2 m	4x6mm	ÖLFLEX-115 CY 4G6mm²	Lapp Kabel	=ABFM+SS-W2
49	4,5 m	4x1.5mm	ÖLFLEX-SERVO-780 P 4x1.5mm² FI0B209	Lapp Kabel G 3	=ABFM+SS-W1,=ABFM+BA-W1
50	1	L-force Controller 3221 C	E32GAC00000B4F9XXX-02S13400000 FN0D360	Lenze	=ABFM+SS-K22.0C
51	1	axis modul double i700 2x5A	E70ACMSE0054SA2ETR FB0F300	Lenze	=ABFM+SS-T6.1C
52	1	axis modul single i700 10A	E70ACMSE0104SA1ETR FB0F201	Lenze	=ABFM+SS-T5.1C
53	1	axis modul single i700 32A	E70ACMSE0324SA1ETR FB0F203	Lenze	=ABFM+SS-T8.1C
54	1	power supply modul i700 30A 3x400VAC	E70ACPSE0304S FB0F100	Lenze	=ABFM+SS-T4.1D
55	1	system plugs for axis modul single i700 5-20A	E70AZEVK001 FB0F250	Lenze	=ABFM+SS-T5.1C
56	1	system plugs for axis modul double i700 5-10A	E70AZEVK002 FB0F350	Lenze	=ABFM+SS-T6.1C
57	1	system plugs for axis modul single i700 32-64A	E70AZEVK003 FB0F252	Lenze	=ABFM+SS-T8.1C
58	1	system plugs for power supply modul i700	E70AZEVK005 FB0F120	Lenze	=ABFM+SS-T4.1D
59	1	dig. input modul 4 channel 24VDC	EPM-S201 FN0D611	Lenze	=ABFM+SS-K23.0C
60	4	dig. input modul 8 channel 24VDC	EPM-S202 FN0D612	Lenze	=ABFM+SS-K22.2C,=ABFM+SS-K22.6C
					=ABFM+SS-K22.7C,=ABFM+SS-K22.9C

		date	06.10.16	PROTEC 0571	 GANNOMAT GANNER Hermann Ganner Straße 1 A-6410 Telfs	part list	Project-no.: 0571A030B 405 V01.09	=
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part list

No.	Piece	designation	article number part number	producer supplier	relation names
61	3	dig. output modul 4fach transistor 0.5A	EPM-S301 FN0D621	Lenze	=ABFM+SS-K25.1C, =ABFM+SS-K25.7C =ABFM+SS-K29.3C
62	6	dig. output modul 8fach transistor 0.5A	EPM-S302 FN0D622	Lenze	=ABFM+SS-K25.3C, =ABFM+SS-K25.4C =ABFM+SS-K25.5C, =ABFM+SS-K25.6C =ABFM+SS-K27.2C, =ABFM+SS-K29.2C
63	1	analog input modul 2 channels 0-10V 12Bit	EPM-S400 FN0D630	Lenze	=ABFM+SS-K22.8C
64	6	I/O power supply module 24VDC/10A	EPM-S701 FN0D690	Lenze	=ABFM+SS-K22.1C, =ABFM+SS-K22.3C =ABFM+SS-K25.0C, =ABFM+SS-K25.2C =ABFM+SS-K27.1C, =ABFM+SS-K29.1C
65	1	potential distribution terminal 8 x 24 VDC	EPM-S910 FN0D700	Lenze	=ABFM+SS-K22.4C
66	1	potential distribution terminal 8 x 0 VDC	EPM-S911 FN0D701	Lenze	=ABFM+SS-K22.5C
67	1	brake resistor 27Ω/600W with thermo switch	ERBS027R600W+QV FB0A891	Lenze	=ABFM+ML-R4.1E
68	2 m	4x1.5mm 2x0.5mm	EWLM002GM-015C FB0D310	Lenze	=ABFM+SS-W7
69	10 m	4x1.5mm 2x0.5mm	EWLM005GMS010 FB0D331	Lenze	=ABFM+SS-W4, =ABFM+SS-W9
70	2 m	2x0.6mm 3x2x0.14mm	EWLR002GM-TSO FB0D320	Lenze	=ABFM+SS-W8
71	10 m	2x0.6mm 3x2x0.14mm	EWLR005GMST FB0D341	Lenze	=ABFM+SS-W5, =ABFM+SS-W10
72	1	servo motor 3~ 0.51kW 1,2Nm 4050rpm resolver and brake	MCS06F41RS0P1 FB0D532	Lenze	=ABFM+BA-M7.1E
73	1	servo motor 3~ 0.64kW 1.5Nm 4050rpm with resolver	MCS06I41RS0B0 FB0D504	Lenze	=ABFM+ML-M6.1E

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74	1	servo motor 3~ 1.1kW 1.8Nm 6000rpm with resolver	MCS09D60RS0B0 FB0D503	Lenze	=ABFM+BA-M5.1E
75	3	socket resolver servomotor 12poles straight	resolver servo motor	Lenze	=ABFM+BA-XS3,=ABFM+ML-XS2,=ABFM+BA-XS5
76	3	socket servomotor 6poles straight	servo motor	Lenze	=ABFM+BA-XS2,=ABFM+ML-XS1,=ABFM+BA-XS4
77	4	pressure gauge ø 40mm 0-1MPa 1/8"	6701 GA EF0B122	Mesto	=ABFM+MR-P150.9D,=ABFM+MR-P150.7D =ABFM+MR-P150.8E,=ABFM+FA-P163.4B
78	1	socket 16A	266875 FI0A196	Moeller	=ABFM+SS-X20.3E
79	1	RCD/Circuit breaker C13A/1N/003	FRBMM-C13/1N/003 FG0J100	Moeller Goobay	=ABFM+SS-F20.1D
80	1	circuit breaker C10A 1poles	PLSM-C10 FI0D086	Moeller	=ABFM+SS-F14.1B
81	2	circuit breaker C6A 1poles	PLSM-C6 FI0D085	Moeller	=ABFM+SS-F12.1B,=ABFM+SS-F14.5B
82	1	socket M8 4poles straight 5m PUR-cable	7000-08061-221 0500 FC0D230	Murr Elektronik Goobay	=ABFM+MR-XS1
83	1	plug M12 4 poles straight 1.5m PVC-cable	7000-12021-614 0150 FC0L280	Murr Elektronik	=ABFM+MR-XS2:1
84	1	socket M12 4poles angular 1.5m PUR-cable	7000-12341-214 0150 FC0D165	Murr Elektronik Goobay	=ABFM+SS-XS3
85	1	socket M12 4poles angular 5m PUR-cable	7000-12341-224-0500 FC0L822	Murr Elektronik	=ABFM+ML-XS3
86	1	plug M12 4poles straight to socket M12 4poles angular 0.3m PVC-cable	7000-40121-614 0030 FC0L860	Murr Elektronik	=ABFM+BA-XS6:1.1
87	1	plug M12 4poles straight to socket M12 4poles angular 1.5m PVC-cable	7000-40121-614 0150 FC0L863	Murr Elektronik	=ABFM+MR-XS3:4
88	1	plug M12 3poles straight to socket M8 3poles straight 0.6m PVC-cable	7000-40561-610 0060 FC0L661	Murr Elektronik	=ABFM+BA-XS6:1.2
89	1	plug M12 4poles straight to socket M8 4poles straight 1m PVC-cable	7000-40581-611 0100 FC0L682	Murr Elektronik	=ABFM+ML-XS4:2
90	1	plug M12 3poles straight to socket M8 3poles angular 0.3m PVC-cable	7000-40601-610 0030 FC0L700	Murr Elektronik	=ABFM+ML-XS4:6

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No.	Piece	designation	article number part number	producer supplier	relation names	
91	1	plug M12 3poles straight to socket M8 3poles angular 0.6m PVC-cable	7000-40601-610 0060 FCOL701	Murr Elektronik Goobay	=ABFM+MR-XS2:5	
92	1	plug M12 4poles straight to socket M8 4poles angular 1m PVC-cable	7000-40621-611 0100 FCOL722	Murr Elektronik	=ABFM+ML-XS4:1	
93	1	Y-plug M12 4polig straight to 2 sockets M12 4poles angular NO+NC bridged 1.5m PVC-cable	7000-40761-613 0150 FCOM243	Murr Elektronik	=ABFM+MR-XS3:3	
94	1	Y-plug M12 4polig straight to 2 sockets M8 3poles straight 0.6m PVC-cable	7000-40821-610 0060 FCOM101	Murr Elektronik	=ABFM+BA-XS7:8	
95	1	Y-plug M12 4polig straight to 2 sockets M8 3poles straight 1m PVC-cable	7000-40821-610 0100 FCOM102	Murr Elektronik	=ABFM+MR-XS3:1	
96	1	Y-plug M12 4polig straight to 2 sockets M8 3poles straight 1.5m PVC-cable	7000-40821-610 0150 FCOM103	Murr Elektronik	=ABFM+MR-XS3:2	
97	15	Y-plug M12 4polig straight to 2 sockets M8 3poles angular 0.3m PVC-cable	7000-40841-610 0030 FCOM140	Murr Elektronik	=ABFM+ML-XS4:3, =ABFM+ML-XS4:4	
					=ABFM+ML-XS4:7, =ABFM+BA-XS6:3	
					=ABFM+BA-XS6:4, =ABFM+BA-XS6:5	
					=ABFM+BA-XS6:6, =ABFM+BA-XS6:7	
					=ABFM+BA-XS6:8, =ABFM+BA-XS7:1	
					=ABFM+BA-XS7:2, =ABFM+BA-XS7:3	
					=ABFM+BA-XS7:4, =ABFM+BA-XS7:5	
					=ABFM+BA-XS7:7	
98	8	Y-plug M12 4polig straight to 2 sockets M8 3poles angular 0.6m PVC-cable	7000-40841-610 0060 FCOM141	Murr Elektronik	=ABFM+BA-XS7:6, =ABFM+MR-XS2:6	
					=ABFM+BA-XS6:2, =ABFM+MR-XS2:2	
					=ABFM+MR-XS2:3, =ABFM+MR-XS2:4	
					=ABFM+MR-XS2:7, =ABFM+MR-XS2:8	

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No.	Piece	designation	article number part number	producer supplier	relation names
99	1	T-piece plug 5poles to 2 sockets M12 5poles distribution function	7000-41121-000 0000 FCOM280	Murr Elektronik	=ABFM+BA-XS6:1
100	1	plug M12 5poles straight to double valve socket 0.2m form A 1m PVC-cable	7000-41611-617 0100 EBOK128	Murr Elektronik Goobay	=ABFM+ML-XS4:5
101	3	distributor Exact 12 8 sockets M12 5poles 3m PUR-cable	8000-88510-398 0300 FCOL162	Murr Elektronik	=ABFM+ML-XS4:1,=ABFM+MR-XS2:1 =ABFM+MR-XS3:1
102	2	distributor Exact 12 8 sockets M12 5poles 5m PUR-cable	8000-88510-398 0500 FCOL160	Murr Elektronik	=ABFM+BA-XS6:1,=ABFM+BA-XS7:1
103	1	Mico load circuit monitoring 4 ch. 24VDC 1-2-4-6A	9000-41034-0100600 FGOK010	Murr Elektronik	=ABFM+SS-F14.1D
104	1	cylinder ø=32mm stroke=60mm		Pneumax	=ABFM+SPH-M151.8B
105	2	handle with pneumatic push-button NC	105.32.6.40A GE0C210	Pneumax Ulmer	=ABFM+SKH-S153.1D,=ABFM+SKV-S153.1E
106	5	cylinder ø=40mm stroke=60mm	1540.40.60.03.1 EA0B416	Pneumax	=ABFM+SPV-M151.1B,=ABFM+SPV-M151.2B =ABFM+SPV-M151.4B,=ABFM+SPH-M151.5B =ABFM+SPH-M151.7B
107	8	quick exhaust valve with muffler 1/8" - ø 4mm	6.02.04.18.L EBOE270	Pneumax	=ABFM+M-R157.2B,=ABFM+M-R157.4B =ABFM+M-R157.6B,=ABFM+M-R157.7B =ABFM+M-R158.1B,=ABFM+M-R158.2B =ABFM+M-R158.4B,=ABFM+M-R158.5B
108	1,8 m	USB-cable Typ A - mini B	AK 673-A FN0A545	Reichelt	=ABFM+SS-W20
109	1,8 m	DVI 24+1 screen cable	AK DVI 113-2 FN0A693	Reichelt	=ABFM+SS-W17
110	1	USB 2.0 Hub 4ports metal	LOGILINK UA0141 FN0A551	Reichelt	=ABFM+MR-X20.4B

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No.	Piece	designation	article number part number	producer supplier	relation names
111	6,8 m	3x1mm	NKSK 500 SW FI0B803	Reichelt	=ABFM+SS-W18, =ABFM+SS-W19
112	1	cooling device wall assembling	3302100 FA0D400	Rittal Goobay	=ABFM+SS-E20.4E
113	1	potentiometer serie 91 10k	107-1198	RS Components	=ABFM+SKV-R49.1C
114	1	rotary knob for glue amount sensor BT 80M	107-7253 FM0E040	RS Components	=ABFM+SKV-R49.1C
115	3	molding for crimping contacts plug 9 poles	259-2062 FI0A213	RS Components	=ABFM+SS-XS17, =ABFM+SS-XS27 =ABFM+SS-XS37
116	24	crimping plug for Sub D plug AWG 26-20	259-2163 FI0A216	RS Components	=ABFM+SS-XS17, =ABFM+SS-XS27 =ABFM+SS-XS37
117	3	Sub D plug 9 poles housing cable entry 45°	322-9800 FI0A226	RS Components	=ABFM+SS-XS17, =ABFM+SS-XS27 =ABFM+SS-XS37
118	1	switching power supply 60W 12VDC 5A	ABL1REM12020 FE0C561	Schneider Electric	=ABFM+SS-T14.5C
119	1	switching power supply 240W 24VDC 10A	ABL1REM24100 FE0C569	Schneider Electric	=ABFM+SS-T14.1C
120	2	auxiliary block motor protection GV2-ME "2 NO"	GV2-AE203 FG0A055	Schneider Electric	=ABFM+SS-F1.3B, =ABFM+SS-F4.1B
121	1	motor protection 2.5-4A	GV2-ME083 FG0A317	Schneider Electric	=ABFM+SS-F1.3B
122	1	motor protection 24-32A	GV2-ME323 FG0A323	Schneider Electric	=ABFM+SS-F4.1B
123	4	3x6mm	LAD-34 FG0A407	Schneider Electric	=ABFM+SS-WV1, =ABFM+SS-WV2, =ABFM+SS-WV3 =ABFM+SS-WV4
124	1	power relay 3p. 9A 4kW NO NC 24VDC coil cage clamp	LC1-D093BL FE0A400	Schneider Electric	=ABFM+SS-Q53.4D

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No.	Piece	designation	article number part number	producer supplier	relation names
125	1	power relay 3p. 18A 7.5kW NO NC 24VDC coil cage clamp	LC1-D183BL FE0A402	Schneider Electric	=ABFM+SS-Q53.2D
126	1	power relay 3p. 25A 11kW NO NC 24VDC coil cage clamp	LC1-D253BL FE0A403	Schneider Electric	=ABFM+SS-Q53.1D
127	2	power relay 3p. 6A 2.2kW NC 24VDC + diode cage clamp	LP1-K06013BD3 FE0A730	Schneider Electric	=ABFM+SS-Q53.5D,=ABFM+SS-Q53.8D
128	1	main switch 40A	VCF2 FC0A138	Schneider Electric	=ABFM+SS-Q1.0C
129	1	case 2 hole	XAL-D02	Schneider Electric	=ABFM+MR-S41.4C
130	1	magnetic safety switch NC NO	XCS-DMC591101M8 FD0A603	Schneider Electric	=ABFM+MR-B16.3B
131	1	emerg. stop device 24VAC/DC 2NO 3 delay opened NO	XPS-ATE5110P FD0A051	Schneider Electric	=ABFM+SS-K17.2C
132	1	magnetic safety switch evaluation 24VAC/DC 2 NO	XPS-DMB1132P FD0A130	Schneider Electric	=ABFM+SS-K16.1D
133	2	mushroom button for emergency stop	ZB4-BS54 FC0J131	Schneider Electric	=ABFM+SKV-S17.4B,=ABFM+SKH-S17.6B
134	1	indicator light upper part red	ZB4-EV043 FC0J163	Schneider Electric	=ABFM+SKV-P17.9D
135	1	light push button upper part green	ZB4-BW333 FC0J143	Schneider Electric	=ABFM+SKV-S17.3D
136	2	light push button upper part blue	ZB4-BW363 FC0J146	Schneider Electric	=ABFM+SKV-S34.1C,=ABFM+SKH-S34.3C
137	6	flange	ZB4-BZ009 FC0J200	Schneider Electric	=ABFM+SKV-S17.4B,=ABFM+SKH-S17.6B
					=ABFM+SKV-P17.9D,=ABFM+SKV-S17.3D
					=ABFM+SKV-S34.1C,=ABFM+SKH-S34.3C
138	1	push button white for housing	ZB5-AA1 FC0J501	Schneider Electric	=ABFM+MR-S41.5C
139	1	push button blue for housing	ZB5-AA6 FC0J506	Schneider Electric	=ABFM+MR-S41.4C
140	3	auxiliary switch NO	ZBE-101 FC0J201	Schneider Electric	=ABFM+SKV-S17.3D,=ABFM+SKV-S34.1C

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					=ABFM+SKH-S34.3C	
141	4	auxiliary switch NC	ZBE-102 FC0J202	Schneider Electric	=ABFM+SKV-S17.4B,=ABFM+SKH-S17.6B	
142	1	light lower part 24V green	ZBV-B3 FC0J213	Schneider Electric	=ABFM+SKV-S17.3D	
143	1	light lower part UT 24V red	ZBV-B4 FC0J214	Schneider Electric	=ABFM+SKV-P17.9D	
144	2	light lower part 24V blue	ZEV-B6 FC0J216	Schneider Electric	=ABFM+SKV-S34.1C,=ABFM+SKH-S34.3C	
145	2	auxiliary switsch NO for casing	ZEN-L1111 FC0J601	Schneider Electric	=ABFM+MR-S41.4C,=ABFM+MR-S41.5C	
146	1	sensor ind. M12x1x45 NO plug M12 Sn=2 TL=30mm	1040731 FCOD151	Sick	=ABFM+BA-B45.4C	
147	2	sensor ind. M12x1x65 NO plug M12 Sn=2 TL=50mm	1040732 FCOD153	Sick	=ABFM+SS-B32.7C,=ABFM+ML-B34.4C	
148	3	sensor ind. M12x1x46 NC plug M12 Sn=4 TL=29mm	1040767 FCOD322	Sick	=ABFM+MR-B43.1C,=ABFM+MR-B43.2C	
					=ABFM+MR-B43.4C	
149	1	desk mount for barcode scanner IDM120/140	6036723 FE0C222	Sick	=ABFM+MR-B20.5C	
150	1	barcode scanner with USB	6050056 FE0C220	Sick Goobay	=ABFM+MR-B20.5C	
151	1	laser red light-through-beam sensor connector M8	WS/WE100L-F2231 FC0F102	Sick	=ABFM+ML-B36.5C	
152	1	pressure regulator 1/8" SMC IR1020-F01	90328100 EF0A163	SMC	=ABFM+MR-R150.7F	
153	1	micro filter 1/4" 0.05 - 1.0Mpa	AFM20-F02-A EF0A096	SMC	=ABFM+FA-R163.2E	
154	3	pressure regulator 1/4" 0,05-0,7MPa	AR20-F02H-A EF0A190	SMC	=ABFM+MR-R150.8E,=ABFM+MR-R150.6E	
					=ABFM+FA-R163.3B	
155	1	pressure regulator 1/2" 0,02-0,2MPa	AR40-F04H-1 EF0A165	SMC	=ABFM+ML-R152.1D	

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part list

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156	2	exhaust throttle check valve 1/8" connection ø 4mm	AS2201F-01-04SA EB0E076	SMC Goobay	=ABFM+ML-R152.6D,=ABFM+ML-R152.8D
157	1	filter-regulator 3/8" + pressure gauge and angle	AW30F03BE EF0A045	SMC	=ABFM+ML-A150.0E
158	3	cylinder ø=20mm stroke=150mm	CD55B20-150M EA0B296	SMC	=ABFM+MR-M153.7B,=ABFM+MR-M153.8B =ABFM+FA-M163.1B
159	1	cylinder ø=40mm stroke=100mm	CDQ2A40TF-100DZ EA0B292	SMC	=ABFM+FA-M162.3B
160	2	cylinder ø=50mm stroke=50mm	CDQ2B50TF-75DZ EA0B290	SMC	=ABFM+YA-M150.4A,=ABFM+YA-M150.6A
161	2	solenoid valve 2/2 1/2" monostable 24VDC	VX230GZ3AA EB0C900	SMC	=ABFM+ML-Q56.7C,=ABFM+ML-Q56.8C
162	4	muffler 1/4"	2941-1/4 ED0G140	Stasto	=ABFM+SPV-R151.2B,=ABFM+SPV-R151.4B =ABFM+SPH-R151.7B,=ABFM+SPH-R151.8B
163	1	felt gear wheel m=2.0 diagonally	06591229 MK0A407	Technom	=ABFM+BA-V12.4E
164	2	washer ø 4.3 form A	DIN 125 A ø 4.3 AD0A120	Troger & Bacher	=ABFM+SS-X4.1E
165	1	lock washer ø 4.3 form A	DIN 6798 ø 4.3 AD0E300	Troger & Bacher	=ABFM+SS-X4.1E
166	1	cylinder screw M4x16mm galvanized	DIN 84 M4x16 AA0E180	Troger & Bacher	=ABFM+SS-X4.1E
167	1	hexagon nut M4 galvanized	DIN 934 M4 AB0A120	Troger & Bacher	=ABFM+SS-X4.1E
168	1	ring lug M5 red 0,75-1,5mm²	3611A FI0A160	Vogt G3	=ABFM+SS-X4.1E
169	2	male spade 6,3x0,8 red 0,75-1,5mm²	3903 FI0A170	Vogt G3	=ABFM+SKV-X34.2C,=ABFM+SKH-X34.3C
170	34	terminal 2-wires 1mm² grey	2000-1201 FI0F100	Wago	=ABFM+SS-X1
171	2	ground terminal 2-wires 1mm² yellow-green	2000-1207 FI0F102	Wago	=ABFM+SS-X1

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172	8	terminal 3-wires 1mm ² grey	2000-1301 FI0F110	Wago Goobay	=ABFM+SS-X1
173	1	cover plate grey 3-wire terminal 1mm ²	2000-1391 FI0F116	Wago	=ABFM+SS-X1
174	1	cover plate orange 3-wire terminal 1mm ²	2000-1392 FI0F117	Wago	=ABFM+SS-X1
175	8	terminal 4-wires 1mm ² grey	2000-1401 FI0F120	Wago Goobay	=ABFM+SS-X2
176	3	ground terminal 4-wires 1mm ² yellow-green	2000-1407 FI0F122	Wago	=ABFM+SS-X2
177	1	cover plate grey 4-wire terminal 1mm ²	2000-1491 FI0F126	Wago	=ABFM+SS-X2
178	2	cover plate orange 4-wire terminal 1mm ²	2000-1492 FI0F127	Wago	=ABFM+SS-X2
179	2	push-in jumper 2-way for terminal 1mm ²	2000-402 FI0F150	Wago	=ABFM+SS-X1, =ABFM+SS-X2
180	1	push-in jumper 4-way for terminal 1mm ²	2000-404 FI0F152	Wago	=ABFM+SS-X2
181	1	push-in jumper 1-3 for terminal 1mm ²	2000-433 FI0F159	Wago	=ABFM+SS-X1
182	7	terminal 2-wires 1.5mm ² grey	2001-1201 FI0F180	Wago	=ABFM+SS-X1
183	2	terminal 2-wires 1.5mm ² blue	2001-1204 FI0F181	Wago	=ABFM+SS-X1
184	4	ground terminal 2-wires 1.5mm ² yellow-green	2001-1207 FI0F182	Wago	=ABFM+SS-X1
185	1	terminal 4-wires 1.5mm ² blue	2001-1404 FI0F201	Wago	=ABFM+SS-X2
186	2	push-in jumper 1-4 for terminal 1.5mm ²	2001-434 FI0F240	Wago	=ABFM+SS-X1
187	1	cover plate orange 2-wire terminal 1.5mm ² - 2.5mm ²	2002-1292 FI0F267	Wago	=ABFM+SS-X1
188	1	cover plate orange 4-wire terminal 1.5mm ² -2.5mm ²	2002-1492 FI0F287	Wago	=ABFM+SS-X2
189	2	warning cover for terminal 6mm ²	2006-115 FI0F430	Wago	=ABFM+SS-X1

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			edit.	WH	machine number			252.527 -	Part list 0571-0170-V200	+
change	date	name	check	norm	DIN 61346				Project name: 0571A030B V01.09	sheet 14 of 15

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part list

No.	Piece	designation	article number part number	producer supplier	relation names
190	3	terminal 2-wires 6mm ² blue	2006-1201 FI0F410	Wago	=ABFM+SS-X1
191	1	terminal 2-wires 6mm ² blue	2006-1204 FI0F411	Wago	=ABFM+SS-X1
192	1	ground terminal 2-wires 6mm ² yellow-green	2006-1207 FI0F412	Wago	=ABFM+SS-X1
193	1	cover plate orange 2-wire terminal 6mm ²	2006-1292 FI0F417	Wago	=ABFM+SS-X1
194	3	terminal 3-wires 6mm ² grey	2006-1301 FI0F420	Wago	=ABFM+SS-X2
195	2	ground terminal 4-wires 6mm ² yellow-green	2006-1307 FI0F422	Wago	=ABFM+SS-X2
196	1	cover plate orange 3-wire terminal 6mm ²	2006-1392 FI0F427	Wago	=ABFM+SS-X2
197	3	label holder 10mm wide	209-145 FI0D490	Wago	=ABFM+SS-K51.2D, =ABFM+SS-K51.1D
					=ABFM+SS-K51.4D
198	2	push-in jumper bar 2-way for Wago relays	788-113 FI0D470	Wago Goobay	=ABFM+SS-K51.1D, =ABFM+SS-K51.4D
199	3	auxiliary relay 24VDC Aux: 2 changeover	788-312 FI0D453	Wago Goobay	=ABFM+SS-K51.2D, =ABFM+SS-K51.1D
					=ABFM+SS-K51.4D
200	1	RJ45 socket with cover	IE-FCM-RJ45-C FN0A570	Weidmüller	=ABFM+SS-X20.7C
201	2	dosage valve 10mm ³ for central lubrication	Z31 ZV1 JA0D653	Werner Leber	=ABFM+ML-R12.3E.1, =ABFM+ML-R12.3F
202	1	dosage valve 50mm ³ for central lubrication	Z31 ZV5 JA0D668	Werner Leber	=ABFM+ML-R12.3E

		date	06.10.16	PROTEC 0571	GANNOMat GANNER Hermann Ganner Straße 1 A-6410 Telfs	part list	Project-no.: 0571A030B 405 V01.09	=
		edit.	WH			Part list 0571-0170-V200	+	
		check		machine number		Project name:	sheet 15	
change	date	name	norm	DIN 61346	252.527 -	0571A030B V01.09	of 15	