

# SET Pipes ehf

Eyravegur 41-45  
800 Selfoss

Company / customer	SET Pipes Gmbh		
Project description	Steel pipe insertion unit		
Job number	21513801		
Manufacturer (company)	SET Pipes ehf	Mains voltage:	400 V (including 230 V) 50 Hz
Project name	SET DE - Steel pipe insertion unit	Apparent power:	13kVA
Type		Maximum current:	19A
		System type:	TN-C-S
		Control voltage:	24VDC (External supply)
Created on	05-Nov-21		
Edit date	10-Feb-22	by (short name) Leó Snær	Number of pages 50

			Date	15-Dec-21	Project description: Steel pipe insertion unit	Company name: SET Pipes ehf	Page description: Title page / cover sheet	Job number: 21513801	=	
			Ed.	Leó Snær					+	
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# SAFETY REGULATIONS

## GENERAL SAFETY REGULATIONS



DANGER !

During plant operation certain items are under dangerous voltage!  
Non-observance of safety instructions can result in death, serious injuries or material damage.

Only specialist personnel may carry out transport, installation and commissioning work.

The applicable valid standards as well as the national and / or company-specific accident prevention regulations are to be observed.

The following safety instructions are to be observed:

The erection, commissioning, troubleshooting as well as repair of the plant may only be carried out by qualified personnel that is familiar with the corresponding operating instructions.

Mounting of the devices has to be effected in accordance with the valid standards, state and local regulations.  
Proper grounding and conductor dimensioning as well as proper short-circuit proofing have to be ensured.  
These measures serve to ensure the safety of the plant and of the operating personnel.

Before carrying out safety checks, maintenance work and repair measures ensure that all the power supplies are switched off, are secured against being switched on unintentionally and are marked correspondingly.

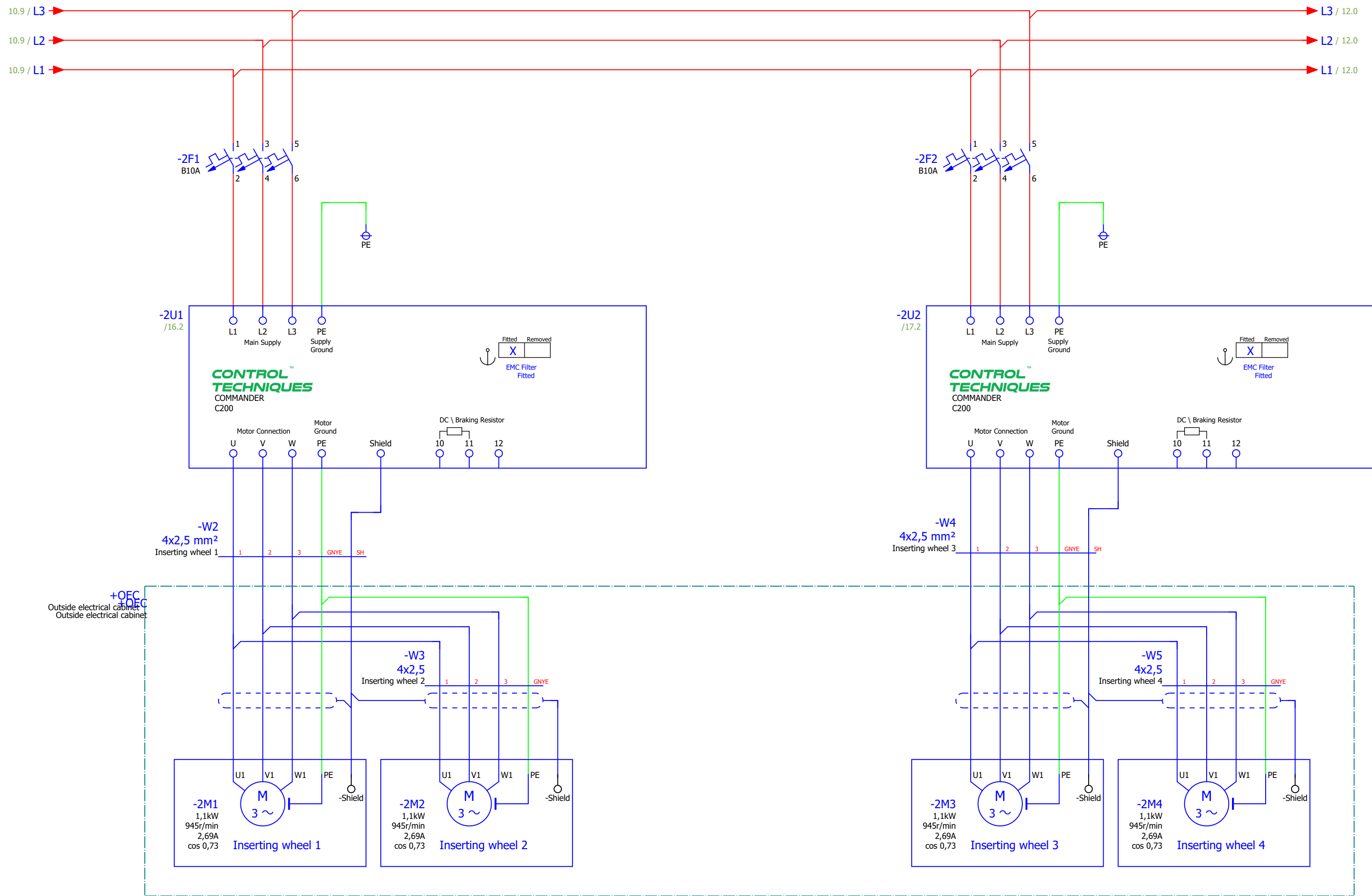
Only test devices that are in a technically perfect condition and are suitable for the respective measurement may be used to carry out measurements!

The instructions specified in the respective operating instructions are to be followed strictly!  
It is mandatory that hazard, warning and safety instructions be observed!

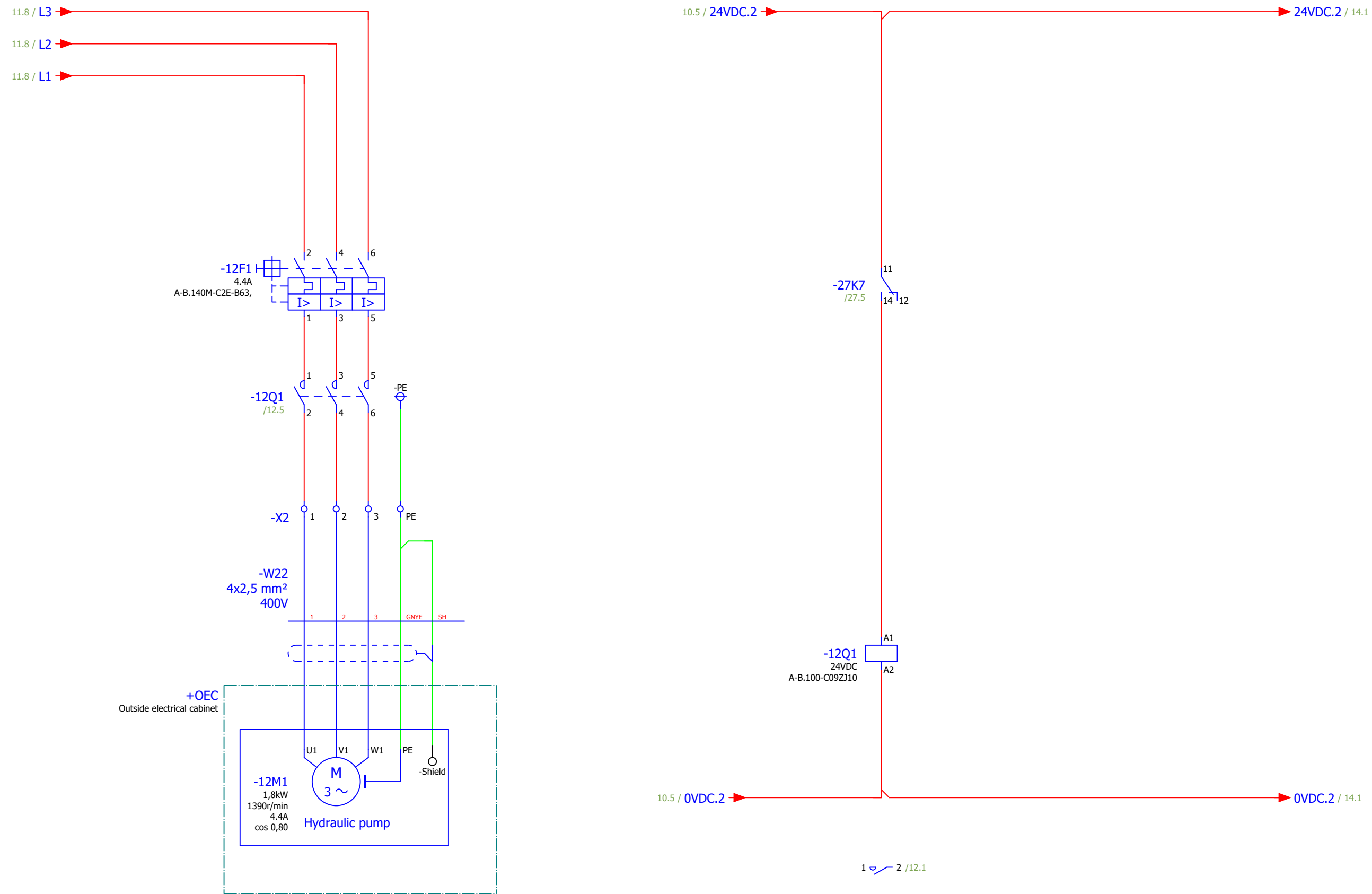
All doors and covers are to be kept closed during the plant operation.  
If cooling devices are installed in the plant, ensure that these systems operate trouble-free.  
These include the regular cleaning of the filters, in as far as they exist.







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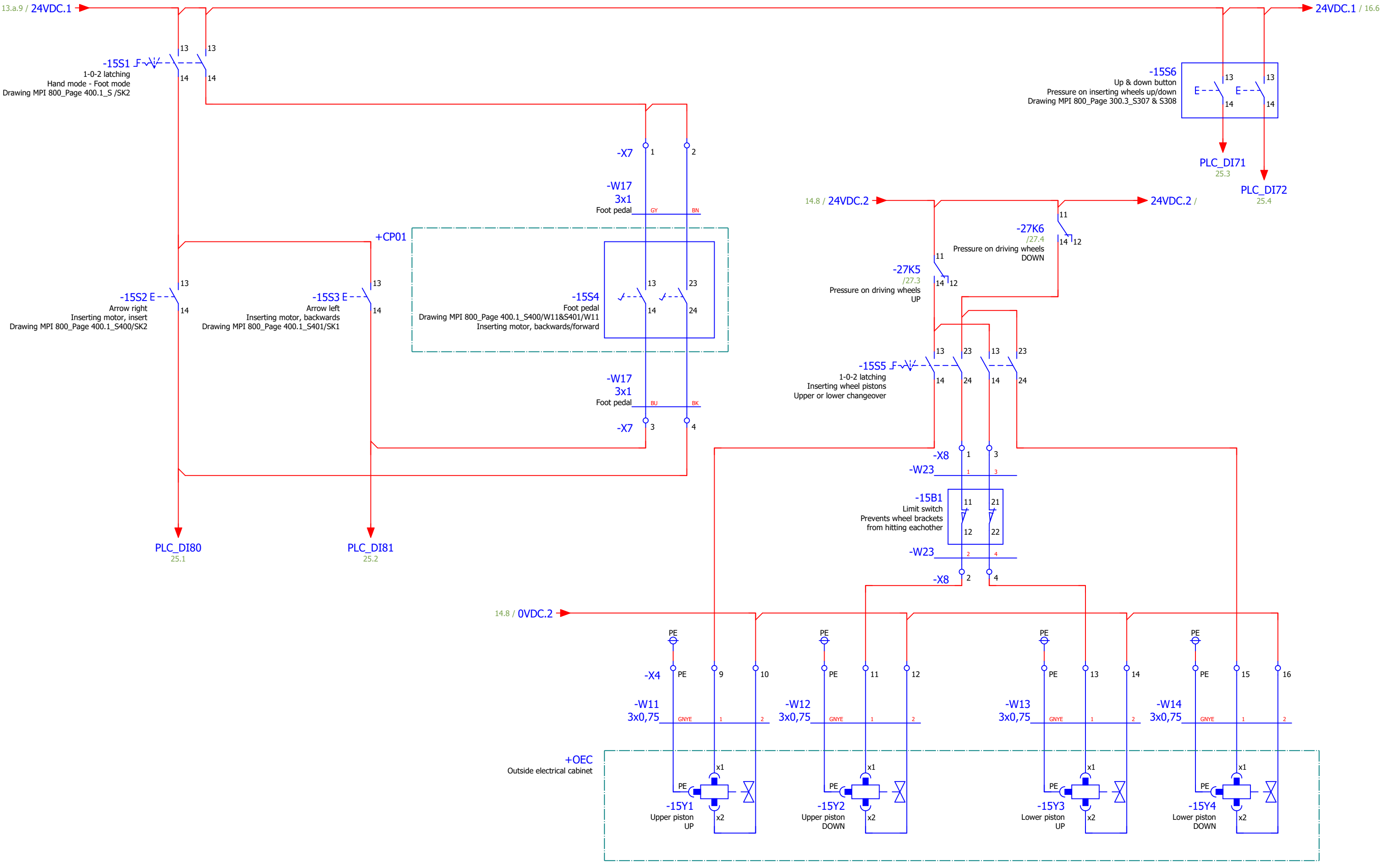
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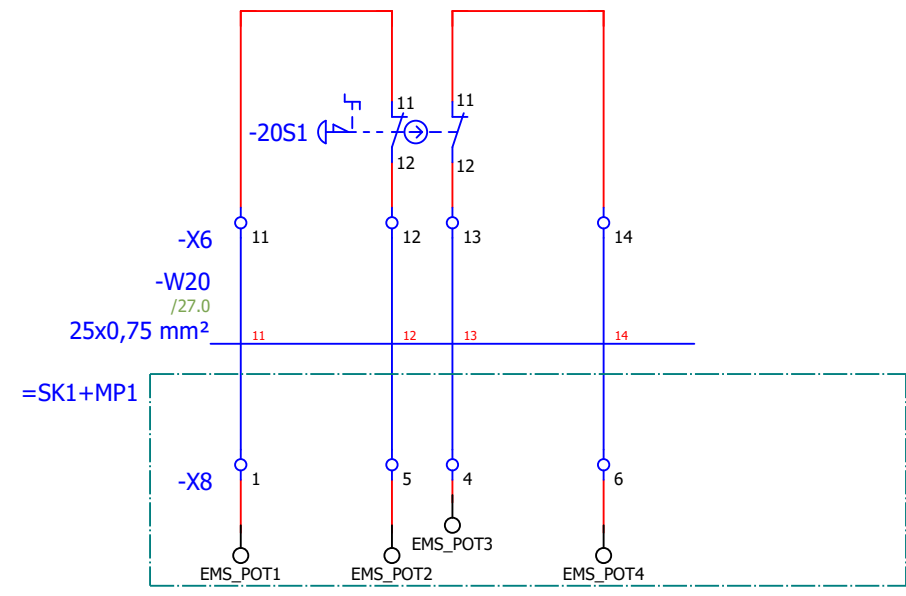




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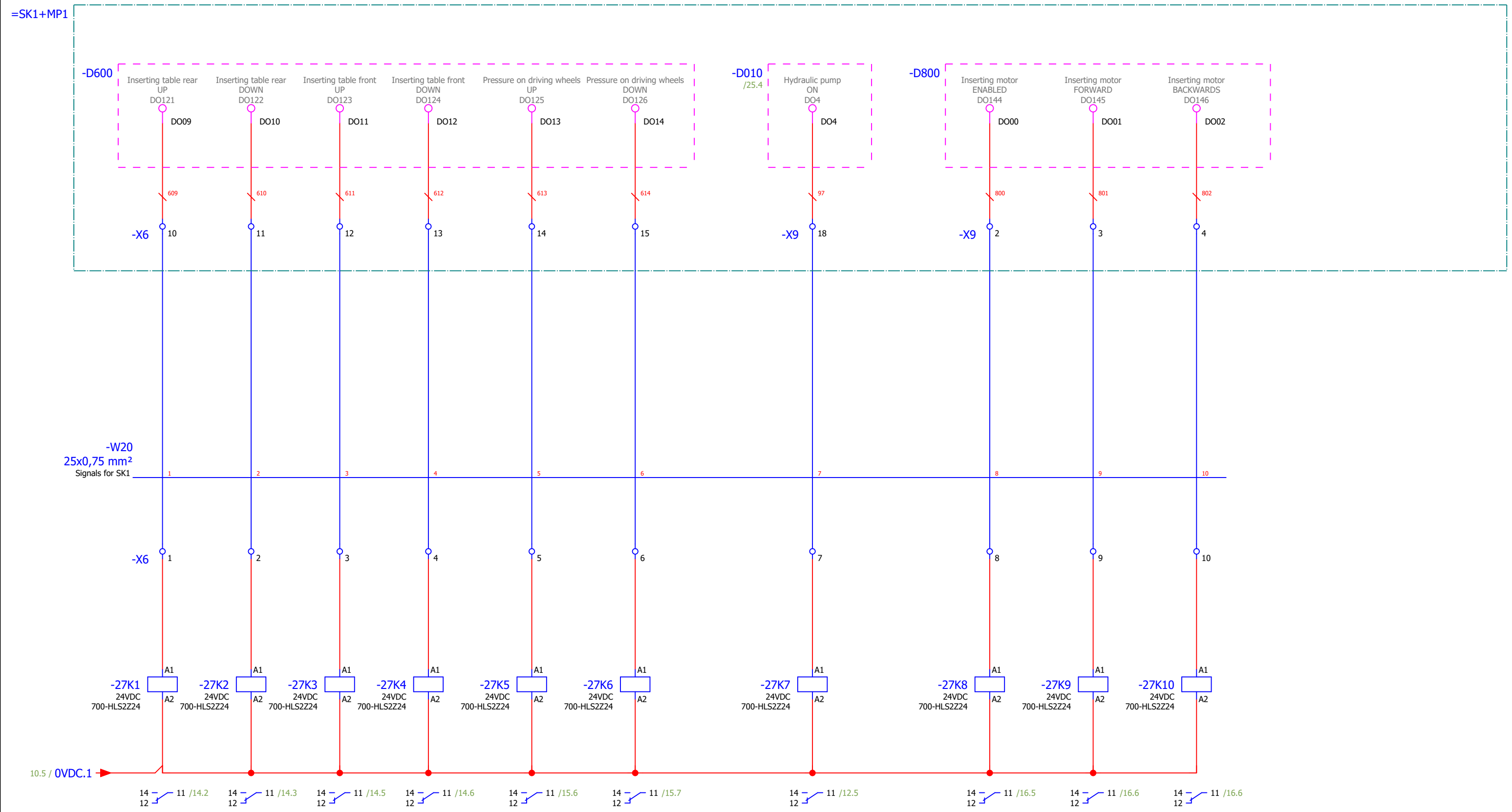




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# Cable overview

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Cable name	Source (from)	Target (to)	Cable type	all conductors	Conductors used	Cross-section [mm]	Length [m]	Function text	Graphical page of cable diagram
+MP1-W1				5	0	4		Power in	
+MP1-W2	=SK2+MP1-2U1	=SK2+OEC-2M1		4	4	2,5		Inserting wheel 1	=XX/41
		-Shield							
+MP1-W4	=SK2+MP1-2U2	=SK2+OEC-2M3		4	4	2,5		Inserting wheel 3	=XX/42
		-Shield							
+MP1-W6	=SK2+MP1-X3	0VDC_SK1	Powerflex	2	2	2.5		24VDC power	=XX/44
		24VDC_SK1							
+MP1-W7	=SK2+MP1-X4	=SK2+MP1-14Y1		3	2	0,75		Inserting table rear UP	=XX/45
+MP1-W8	=SK2+MP1-X4	=SK2+MP1-14Y2		3	2	0,75		Inserting table rear DOWN	=XX/46
+MP1-W9	=SK2+MP1-X4	=SK2+MP1-14Y3		3	2	0,75		Inserting table front UP	=XX/47
+MP1-W10	=SK2+MP1-X4	=SK2+MP1-14Y4		3	2	0,75		Inserting table front DOWN	=XX/48
+MP1-W11	=SK2+MP1-X4	=SK2+MP1-15Y1		3	2	0,75		Upper piston UP	=XX/49
+MP1-W12	=SK2+MP1-X4	=SK2+MP1-15Y2		3	2	0,75		Upper piston DOWN	=XX/50
+MP1-W13	=SK2+MP1-X4	=SK2+MP1-15Y3		3	2	0,75		Lower piston UP	=XX/51
+MP1-W14	=SK2+MP1-X4	=SK2+MP1-15Y4		3	2	0,75		Lower piston DOWN	=XX/52
+MP1-W15	=SK2+MP1-X9	=SK2+MP1-16R1		3	3	1		Potentiometer to control motor speed	=XX/53
+MP1-W16	=SK2+MP1-X9	=SK2+MP1-2U2		3	2	1		=	=XX/54
+MP1-W17	=SK2+MP1-X7	=SK2+CP01-15S4		3	4	1		Foot pedal	=XX/55
+MP1-W19	=SK1+MP1-X3	=SK2+MP1-X5		25	17	0,75		Signals for SK1	=XX/57
	=SK1+MP1-X4								
	=SK1+MP1-X9								
+MP1-W20	=SK1+MP1-X6	=SK2+MP1-X6		25	14	0,75		Signals for SK1	=XX/58
	=SK1+MP1-X8								
	=SK1+MP1-X9								
+MP1-W21	=SK2+MP1-X9	=SK2+MP1-2U1		3	3	1		Potentiometer to control motor speed	=XX/59
+MP1-W22	=SK2+MP1-X2	=SK2+OEC-12M1		4	3	2,5		Hydraulic pump	
	-Shield								
+MP1-W23	=SK2+MP1-X8	=SK2+MP1-15B1		4	3	0,75		Limit switch on top wheel bracket	
+OEC-W3				4	0	2,5		Inserting wheel 2	
+OEC-W5				4	0	2,5		Inserting wheel 4	

=SK2+MP1&EFS/27

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# Cable diagram

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Cable name +MP1-W2	Cable type		No. of conductors 4		Cross-section 2,5	Cable length		Function text Inserting wheel 1
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
U phase Motor Output	=SK2&EFS/11.1	=SK2-2U1	U	1	=SK2+OEC-2M1	U1	=SK2&EFS/11.1	Inserting wheel 1
V phase Motor Output	=SK2&EFS/11.1	=SK2-2U1	V	2	=SK2+OEC-2M1	V1	=SK2&EFS/11.1	=
W phase Motor Output	=SK2&EFS/11.2	=SK2-2U1	W	3	=SK2+OEC-2M1	W1	=SK2&EFS/11.1	=
PE Motor Ground	=SK2&EFS/11.2	=SK2-2U1	PE	GNYE	=SK2+OEC-2M1	PE	=SK2&EFS/11.1	=
SH Supply Ground	=SK2&EFS/11.2	=SK2-2U1	Shield	SH	-Shield		=SK2&EFS/11.2	

# Cable diagram

F09\_001

Cable name +MP1-W4	Cable type		No. of conductors 4		Cross-section 2,5	Cable length		Function text Inserting wheel 3
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
U phase Motor Output	=SK2&EFS/11.6	=SK2-2U2	U	1	=SK2+OEC-2M3	U1	=SK2&EFS/11.6	Inserting wheel 3
V phase Motor Output	=SK2&EFS/11.6	=SK2-2U2	V	2	=SK2+OEC-2M3	V1	=SK2&EFS/11.6	=
W phase Motor Output	=SK2&EFS/11.6	=SK2-2U2	W	3	=SK2+OEC-2M3	W1	=SK2&EFS/11.6	=
PE Motor Ground	=SK2&EFS/11.7	=SK2-2U2	PE	GNYE	=SK2+OEC-2M3	PE	=SK2&EFS/11.6	=
SH Supply Ground	=SK2&EFS/11.7	=SK2-2U2	Shield	SH	-Shield		=SK2&EFS/11.7	

# Cable diagram

F09\_001

Cable name +MP1-W6	Cable type Powerflex		No. of conductors 2		Cross-section 2.5	Cable length		Function text 24VDC power	
	Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
	=SK2&EFS/10.3	=SK2-X3	1	BN	0VDC_SK1			=SK2&EFS/10.3	
	=SK2&EFS/10.4	=SK2-X3	2	BU	24VDC_SK1			=SK2&EFS/10.3	

# Cable diagram

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Cable name +MP1-W7	Cable type		No. of conductors 3		Cross-section 0,75	Cable length		Function text Inserting table rear UP
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
Inserting table rear UP	=SK2&EFS/14.2	=SK2-X4	1	1	=SK2-14Y1	x1	=SK2&EFS/14.2	Inserting table rear UP
=	=SK2&EFS/14.2	=SK2-X4	2	2	=SK2-14Y1	x2	=SK2&EFS/14.2	=
	=SK2&EFS/14.2	=SK2-X4	PE	GNYE	=SK2-14Y1	PE	=SK2&EFS/14.2	=

# Cable diagram

F09\_001

Cable name +MP1-W8	Cable type		No. of conductors 3		Cross-section 0,75	Cable length		Function text Inserting table rear DOWN
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
Inserting table rear DOWN	=SK2&EFS/14.3	=SK2-X4	3	1	=SK2-14Y2	x1	=SK2&EFS/14.3	Inserting table rear DOWN
=	=SK2&EFS/14.4	=SK2-X4	4	2	=SK2-14Y2	x2	=SK2&EFS/14.3	=
	=SK2&EFS/14.3	=SK2-X4	PE	GNYE	=SK2-14Y2	PE	=SK2&EFS/14.3	=

# Cable diagram

F09\_001

Cable name +MP1-W9	Cable type		No. of conductors 3		Cross-section 0,75	Cable length		Function text Inserting table front UP
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
Inserting table front UP	=SK2&EFS/14.5	=SK2-X4	5	1	=SK2-14Y3	x1	=SK2&EFS/14.5	Inserting table front UP
=	=SK2&EFS/14.5	=SK2-X4	6	2	=SK2-14Y3	x2	=SK2&EFS/14.5	=
	=SK2&EFS/14.5	=SK2-X4	PE	GNYE	=SK2-14Y3	PE	=SK2&EFS/14.5	=

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# Cable diagram

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Cable name +MP1-W10		Cable type		No. of conductors 3		Cross-section 0,75		Cable length		Function text Inserting table front DOWN	
Function text		X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text		
Inserting table front DOWN		=SK2&EFS/14.6	=SK2-X4	7	1	=SK2-14Y4	x1	=SK2&EFS/14.6	Inserting table front DOWN		
=		=SK2&EFS/14.7	=SK2-X4	8	2	=SK2-14Y4	x2	=SK2&EFS/14.6	=		
		=SK2&EFS/14.6	=SK2-X4	PE	GNYE	=SK2-14Y4	PE	=SK2&EFS/14.6	=		

# Cable diagram

Cable name +MP1-W11		Cable type		No. of conductors 3		Cross-section 0,75		Cable length		Function text Upper piston UP	
Function text		X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text		
Upper piston UP		=SK2&EFS/15.5	=SK2-X4	9	1	=SK2-15Y1	x1	=SK2&EFS/15.5	Upper piston UP		
=		=SK2&EFS/15.5	=SK2-X4	10	2	=SK2-15Y1	x2	=SK2&EFS/15.5	=		
		=SK2&EFS/15.4	=SK2-X4	PE	GNYE	=SK2-15Y1	PE	=SK2&EFS/15.5	=		

# Cable diagram

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Cable name +MP1-W12	Cable type		No. of conductors 3		Cross-section 0,75	Cable length		Function text Upper piston DOWN
	Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref
Upper piston DOWN	=SK2&EFS/15.6	=SK2-X4	11	1	=SK2-15Y2	x1	=SK2&EFS/15.6	Upper piston DOWN
=	=SK2&EFS/15.6	=SK2-X4	12	2	=SK2-15Y2	x2	=SK2&EFS/15.6	=
	=SK2&EFS/15.5	=SK2-X4	PE	GNYE	=SK2-15Y2	PE	=SK2&EFS/15.6	=

# Cable diagram

Cable name +MP1-W13	Cable type		No. of conductors 3		Cross-section 0,75	Cable length		Function text Lower piston UP
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
Lower piston UP	=SK2&EFS/15.7	=SK2-X4	13	1	=SK2-15Y3	x1	=SK2&EFS/15.7	Lower piston UP
=	=SK2&EFS/15.7	=SK2-X4	14	2	=SK2-15Y3	x2	=SK2&EFS/15.7	=
	=SK2&EFS/15.7	=SK2-X4	PE	GNYE	=SK2-15Y3	PE	=SK2&EFS/15.7	=

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# Cable diagram

Cable name +MP1-W14		Cable type		No. of conductors 3		Cross-section 0,75		Cable length		Function text Lower piston DOWN	
Function text		X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text		
Lower piston DOWN		=SK2&EFS/15.8	=SK2-X4	15	1	=SK2-15Y4	x1	=SK2&EFS/15.8	Lower piston DOWN		
=		=SK2&EFS/15.8	=SK2-X4	16	2	=SK2-15Y4	x2	=SK2&EFS/15.8	=		
		=SK2&EFS/15.8	=SK2-X4	PE	GNYE	=SK2-15Y4	PE	=SK2&EFS/15.8	=		



# Cable diagram

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Cable name +MP1-W16	Cable type		No. of conductors 3		Cross-section 1	Cable length		Function text Potentiometer to control motor speed
Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
Analog Input 1	=SK2&EFS/16.3	=SK2-X9	2	2	=SK2-2U2	2	=SK2&EFS/17.3	Analog Input 1
0V common	=SK2&EFS/16.4	=SK2-X9	3	3	=SK2-2U2	1	=SK2&EFS/17.4	0V common

# Cable diagram

F09\_001

Cable name +MP1-W17	Cable type		No. of conductors 3		Cross-section 1	Cable length		Function text Foot pedal
	Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref
Inserting motor INSERT	=SK2&EFS/15.4	=SK2-X7	4	BK	=SK2+CP01-15S4	24	=SK2&EFS/15.4	
=	=SK2&EFS/15.4	=SK2-X7	2	BN	=SK2+CP01-15S4	23	=SK2&EFS/15.4	
Inserting motor BACKWARDS	=SK2&EFS/15.4	=SK2-X7	3	BU	=SK2+CP01-15S4	14	=SK2&EFS/15.4	
=	=SK2&EFS/15.4	=SK2-X7	1	GY	=SK2+CP01-15S4	13	=SK2&EFS/15.4	



# Cable diagram

F09\_001

Cable name +MP1-W19	Cable type		No. of conductors 25		Cross-section 0,75	Cable length		Function text Signals for SK1
	Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref
Inserting table rear UP	=SK2&EFS/25.1	=SK1-X3	4	1	=SK2-X5	1	=SK2&EFS/25.1	Inserting table rear UP
Inserting table rear DOWN	=SK2&EFS/25.2	=SK1-X3	5	2	=SK2-X5	2	=SK2&EFS/25.2	Inserting table rear DOWN
Inserting table front UP	=SK2&EFS/25.2	=SK1-X3	6	3	=SK2-X5	3	=SK2&EFS/25.2	Inserting table front UP
Inserting table front DOWN	=SK2&EFS/25.3	=SK1-X3	7	4	=SK2-X5	4	=SK2&EFS/25.3	Inserting table front DOWN
Pressure on inserting wheel DOWN	=SK2&EFS/25.3	=SK1-X3	8	5	=SK2-X5	5	=SK2&EFS/25.3	Pressure on inserting wheel DOWN
Pressure on inserting wheel UP	=SK2&EFS/25.4	=SK1-X3	9	6	=SK2-X5	6	=SK2&EFS/25.4	Pressure on inserting wheel UP
Steel magazine UP	=SK2&EFS/25.5	=SK1-X3	10	7	=SK2-X5	7	=SK2&EFS/25.5	Steel magazine UP
Steel magazine DOWN	=SK2&EFS/25.5	=SK1-X3	11	8	=SK2-X5	8	=SK2&EFS/25.5	Steel magazine DOWN
Small driving wagons UP	=SK2&EFS/25.6	=SK1-X3	12	9	=SK2-X5	9	=SK2&EFS/25.6	Small driving wagons UP
Small driving wagons DOWN	=SK2&EFS/25.7	=SK1-X3	13	10	=SK2-X5	10	=SK2&EFS/25.7	Small driving wagons DOWN
Small driving wagons RIGHT	=SK2&EFS/25.7	=SK1-X3	15	11	=SK2-X5	11	=SK2&EFS/25.7	Small driving wagons RIGHT
Small driving wagons LEFT	=SK2&EFS/25.8	=SK1-X3	16	12	=SK2-X5	12	=SK2&EFS/25.8	Small driving wagons LEFT
Inserting motor INSERT	=SK2&EFS/25.1	=SK1-X4	1	13	=SK2-X5	13	=SK2&EFS/25.1	Inserting motor INSERT
Inserting motor BACKWARDS	=SK2&EFS/25.2	=SK1-X4	2	14	=SK2-X5	14	=SK2&EFS/25.2	Inserting motor BACKWARDS
Moving casingpipe IN	=SK2&EFS/25.2	=SK1-X4	13	15	=SK2-X5	15	=SK2&EFS/25.2	Moving casingpipe IN
Moving casingpipe OUT	=SK2&EFS/25.3	=SK1-X4	14	16	=SK2-X5	16	=SK2&EFS/25.3	Moving casingpipe OUT
Inserting drive FAULT	=SK2&EFS/25.4	=SK1-X9	5	17	=SK2-X5	17	=SK2&EFS/25.4	Inserting drive FAULT

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# Cable diagram

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Cable name +MP1-W20	Cable type		No. of conductors 25		Cross-section 0,75	Cable length		Function text Signals for SK1
	Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref
Inserting table rear UP	=SK2&EFS/27.1	=SK1-X6	10	1	=SK2-X6	1	=SK2&EFS/27.1	Inserting table rear UP
Inserting table rear DOWN	=SK2&EFS/27.1	=SK1-X6	11	2	=SK2-X6	2	=SK2&EFS/27.1	Inserting table rear DOWN
Inserting table front UP	=SK2&EFS/27.2	=SK1-X6	12	3	=SK2-X6	3	=SK2&EFS/27.2	Inserting table front UP
Inserting table front DOWN	=SK2&EFS/27.2	=SK1-X6	13	4	=SK2-X6	4	=SK2&EFS/27.2	Inserting table front DOWN
Pressure on driving wheels UP	=SK2&EFS/27.3	=SK1-X6	14	5	=SK2-X6	5	=SK2&EFS/27.3	Pressure on driving wheels UP
Pressure on driving wheels DOWN	=SK2&EFS/27.4	=SK1-X6	15	6	=SK2-X6	6	=SK2&EFS/27.4	Pressure on driving wheels DOWN
Hydraulic pump ON	=SK2&EFS/27.5	=SK1-X9	18	7	=SK2-X6	7	=SK2&EFS/27.5	Hydraulic pump ON
Inserting motor ENABLED	=SK2&EFS/27.6	=SK1-X9	2	8	=SK2-X6	8	=SK2&EFS/27.6	Inserting motor ENABLED
Inserting motor FORWARD	=SK2&EFS/27.7	=SK1-X9	3	9	=SK2-X6	9	=SK2&EFS/27.7	Inserting motor FORWARD
Inserting motor BACKWARDS	=SK2&EFS/27.7	=SK1-X9	4	10	=SK2-X6	10	=SK2&EFS/27.7	Inserting motor BACKWARDS
Emergency STOP Loop 1 -1	=SK2&EFS/20.1	=SK1-X8	1	11	=SK2-X6	11	=SK2&EFS/20.1	Emergency STOP Loop 1 -1
Emergency STOP Loop 1 -2	=SK2&EFS/20.2	=SK1-X8	5	12	=SK2-X6	12	=SK2&EFS/20.2	Emergency STOP Loop 1 -2
Emergency STOP Loop 2 -1	=SK2&EFS/20.2	=SK1-X8	4	13	=SK2-X6	13	=SK2&EFS/20.2	Emergency STOP Loop 2 -1
Emergency STOP Loop 2 -2	=SK2&EFS/20.3	=SK1-X8	6	14	=SK2-X6	14	=SK2&EFS/20.3	Emergency STOP Loop 2 -2

# Cable diagram

F09\_001

Cable name +MP1-W21	Cable type		No. of conductors 3		Cross-section 1	Cable length		Function text Potentiometer to control motor speed
	Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref
+10V VDC User Output	=SK2&EFS/16.3	=SK2-X9	1	1	=SK2-2U1	4	=SK2&EFS/16.3	+10V VDC User Output
Analog Input 1	=SK2&EFS/16.3	=SK2-X9	2	2	=SK2-2U1	2	=SK2&EFS/16.3	Analog Input 1
0V common	=SK2&EFS/16.4	=SK2-X9	3	3	=SK2-2U1	1	=SK2&EFS/16.4	0V common

Modification	Date	10-Feb-22	Project description: Steel pipe insertion unit	Company name: SET Pipes ehf	Page description: Cable diagram +MP1-W21	Job number: 21513801	= XX	+	Page	59
	Date								Page	35 / 50
	Name	Original								

# Terminal diagram

F13\_001

Function text	Cable name							Strip				Cable name	Page / column					
								=SK1+MP1-X3										
Function text	Cable name							Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type	Page / column			
Inserting table rear UP								-D300	DI03	4		=SK2-X5	1		1	=SK2&EFS/25.1		
Inserting table rear DOWN								-D300	DI04	5		=SK2-X5	2		2	=SK2&EFS/25.2		
Inserting table front UP								-D300	DI05	6		=SK2-X5	3		3	=SK2&EFS/25.2		
Inserting table front DOWN								-D300	DI06	7		=SK2-X5	4		4	=SK2&EFS/25.3		
Pressure on inserting wheel DOWN								-D300	DI07	8		=SK2-X5	5		5	=SK2&EFS/25.3		
Pressure on inserting wheel UP								-D300	DI08	9		=SK2-X5	6		6	=SK2&EFS/25.4		
Steel magazine UP								-D300	DI09	10		=SK2-X5	7		7	=SK2&EFS/25.5		
Steel magazine DOWN								-D300	DI10	11		=SK2-X5	8		8	=SK2&EFS/25.5		
Small driving wagons UP								-D300	DI11	12		=SK2-X5	9		9	=SK2&EFS/25.6		
Small driving wagons DOWN								-D300	DI12	13		=SK2-X5	10		10	=SK2&EFS/25.7		
Small driving wagons RIGHT								-D300	DI14	15		=SK2-X5	11		11	=SK2&EFS/25.7		
Small driving wagons LEFT								-D300	DI15	16		=SK2-X5	12		12	=SK2&EFS/25.8		

# Terminal diagram

Function text	Cable name				Strip =SK1+MP1-X4				Cable name				Page / column
	Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type						
Inserting motor INSERT	-D400	DI00	1		=SK2-X5	13				13			=SK2&EFS/25.1
Inserting motor BACKWARDS	-D400	DI01	2		=SK2-X5	14				14			=SK2&EFS/25.2
Moving casingpipe IN	-D400	DI12	13		=SK2-X5	15				15			=SK2&EFS/25.2
Moving casingpipe OUT	-D400	DI13	14		=SK2-X5	16				16			=SK2&EFS/25.3

# Terminal diagram

Function text										Cable name		Strip =SK1+MP1-X6						Cable name		Page / column			
Function text										Cable name		Target designation		Connection point	Terminal	Jumper	Target designation		Connection point	Cable name		Page / column	
Function text										Cable name		Target designation		Connection point	Terminal	Jumper	Target designation		Connection point	Cable name		Page / column	
Inserting table rear UP										-W20		=SK2-X6		1	10		-D600		D009			=SK2&EFS/27.1	
Inserting table rear DOWN												=SK2-X6		2	11		-D600		D010			=SK2&EFS/27.1	
Inserting table front UP												=SK2-X6		3	12		-D600		D011			=SK2&EFS/27.2	
Inserting table front DOWN												=SK2-X6		4	13		-D600		D012			=SK2&EFS/27.2	
Pressure on driving wheels UP												=SK2-X6		5	14		-D600		D013			=SK2&EFS/27.3	
Pressure on driving wheels DOWN												=SK2-X6		6	15		-D600		D014			=SK2&EFS/27.4	

# Terminal diagram

Strip =SK1+MP1-X8																							
Function text												Cable name		-W20						Page / column			
												Cable name		Cable type	Connection point	Terminal	Jumper	Connection point	Cable type				Page / column
Emergency STOP Loop 1 -1												EMS_POT1			1		=SK2-X6	11				11	=SK2&EFS/20.1
Emergency STOP Loop 2 -1												EMS_POT3			4		=SK2-X6	13				13	=SK2&EFS/20.2
Emergency STOP Loop 1 -2												EMS_POT2			5		=SK2-X6	12				12	=SK2&EFS/20.2
Emergency STOP Loop 2 -2												EMS_POT4			6		=SK2-X6	14				14	=SK2&EFS/20.3

			Date	10-Feb-22
			Ed.	Leó Snær
			Appr.	
Modification	Date	Name	Original	

Project description:  
Steel pipe insertion unit

Company name:  
SET Pipes ehf

Page description:  
Terminal diagram =SK1+MP1-X8

Job number: 21513801











# Terminal diagram

Function text	Cable name							Strip =SK2+MP1-X4					Cable name	Cable type	Page / column	
	-W14	-W13	-W10	-W12	-W9	-W11	-W8	-W7	Cable type	Target designation	Connection point	Terminal				Jumper
Inserting table rear UP								1		-14Y1	x1	1		-27K1	14	&EFS/14.2
=								2		-14Y1	x2	2	●	-12Q1	A2	&EFS/14.2
								GNYE		-14Y1	PE	PE	●	-PE		&EFS/14.2
Inserting table rear DOWN								1		-14Y2	x1	3		-27K2	14	&EFS/14.3
=								2		-14Y2	x2	4	●			&EFS/14.4
								GNYE		-15Y1	PE	PE	●	-PE		&EFS/15.4
Inserting table front UP								1		-14Y3	x1	5		-27K3	14	&EFS/14.5
=								2		-14Y3	x2	6	●			&EFS/14.5
								GNYE		-15Y2	PE	PE	●	-PE		&EFS/15.5
Inserting table front DOWN								1		-14Y4	x1	7		-27K4	14	&EFS/14.6
=								2		-14Y4	x2	8	●			&EFS/14.7
								GNYE		-15Y3	PE	PE	●	-PE		&EFS/15.7
Upper piston UP								1		-15Y1	x1	9		-15S5	14	&EFS/15.5
=								2		-15Y1	x2	10	●			&EFS/15.5
								GNYE		-15Y4	PE	PE	●	-PE		&EFS/15.8
Upper piston DOWN								1		-15Y2	x1	11		-X8	2	&EFS/15.6
=								2		-15Y2	x2	12	●			&EFS/15.6
								GNYE		-14Y2	PE	PE	●	-PE		&EFS/14.3
Lower piston UP								1		-15Y3	x1	13		-X8	4	&EFS/15.7
=								2		-15Y3	x2	14	●			&EFS/15.7
								GNYE		-14Y3	PE	PE	●	-PE		&EFS/14.5
Lower piston DOWN								1		-15Y4	x1	15		-15S5	24	&EFS/15.8
=								2		-15Y4	x2	16	●			&EFS/15.8
								GNYE		-14Y4	PE	PE	●	-PE		&EFS/14.6

Modification	Date	Name	Date	10-Feb-22	Project description: Steel pipe insertion unit	Company name: SET Pipes ehf	Page description: Terminal diagram =SK2+MP1-X4	Job number: 21513801	= XX
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			Appr.						Page 69
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# Terminal diagram

Function text		Cable name						Strip =SK2+MP1-X6						Cable name						Page / column					
		Cable type						Target designation		Connection point	Terminal	Jumper	Target designation		Connection point	Cable type									
Emergency STOP Loop 1 -1							11	=SK1-X8	1		11		-20S1		11										&EFS/20.1
Emergency STOP Loop 1 -2							12	=SK1-X8	5		12		-20S1		12										&EFS/20.2
Emergency STOP Loop 2 -1							13	=SK1-X8	4		13		-20S1		12										&EFS/20.2
Emergency STOP Loop 2 -2							14	=SK1-X8	6		14		-20S1		11										&EFS/20.3
Inserting table rear UP								-27K1	A1		1		=SK1-X6		10		1								&EFS/27.1
Inserting table rear DOWN								-27K2	A1		2		=SK1-X6		11		2								&EFS/27.1
Inserting table front UP								-27K3	A1		3		=SK1-X6		12		3								&EFS/27.2
Inserting table front DOWN								-27K4	A1		4		=SK1-X6		13		4								&EFS/27.2
Pressure on driving wheels UP								-27K5	A1		5		=SK1-X6		14		5								&EFS/27.3
Pressure on driving wheels DOWN								-27K6	A1		6		=SK1-X6		15		6								&EFS/27.4
Hydraulic pump ON								-27K7	A1		7		=SK1-X9		18		7								&EFS/27.5
Inserting motor ENABLED								-27K8	A1		8		=SK1-X9		2		8								&EFS/27.6
Inserting motor FORWARD								-27K9	A1		9		=SK1-X9		3		9								&EFS/27.7
Inserting motor BACKWARDS								-27K10	A1		10		=SK1-X9		4		10								&EFS/27.7

Modification		Date	Name	Date	10-Feb-22	Project description: Steel pipe insertion unit	Company name:	Page description:	Job number:	= XX
				Ed.	Leó Snær		SET Pipes ehf	Terminal diagram =SK2+MP1-X6	21513801	
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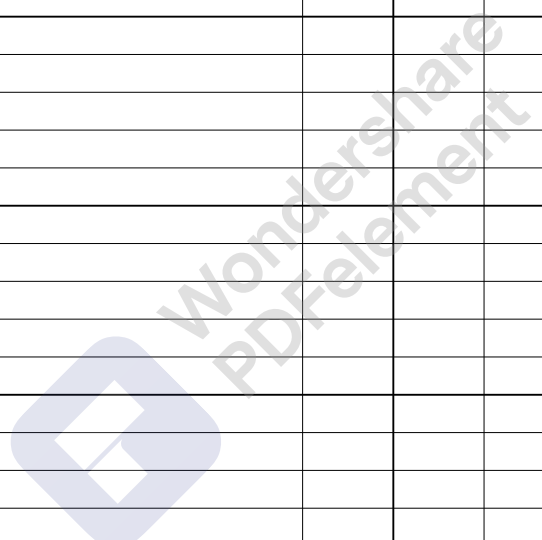
# Terminal diagram

F13\_001

Function text	Cable name	Cable type	Strip =SK2+MP1-X7				Cable name	Cable type	Page / column
			Target designation	Connection point	Terminal	Jumper			
Inserting motor BACKWARDS	-W17		+CP01-15S4	13	1		-15S1	14	&EFS/15.4
Inserting motor INSERT			+CP01-15S4	23	2				&EFS/15.4
Inserting motor BACKWARDS			-15S3	14	3		+CP01-15S4	14	BU &EFS/15.4
Inserting motor INSERT			-15S2	14	4		+CP01-15S4	24	BK &EFS/15.4

# Terminal diagram

Function text	Cable name						Strip =SK2+MP1-X8						Cable name						Page / column					
	Cable type						Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type											
						-W23	-15B1	11	1		-15S5	24												&EFS/15.6
							-X4	11	2		-15B1	12												2 &EFS/15.6
							-15B1	21	3		-15S5	14												&EFS/15.6
						3	-X4	13	4		-15B1	22												4 &EFS/15.6





# Terminal diagram

F13\_001

Function text	Cable name							Strip =SK2+MP1-X9							Cable name				Page / column	
	Cable type							Target designation	Connection point	Terminal	Jumper	Target designation	Connection point	Cable type						
+10V VDC User Output							-W15	-16R1	x2	1		-2U1	4					1		&EFS/16.3
Analog Input 1							-W15	-16R1	x3	2		-2U1	2					2		&EFS/16.3
0V common							-W15	-16R1	x1	3		-2U1	1					3	2	&EFS/16.4
							-W15					-2U2	1					3		

