



Deno Compressors

DENO Compressors B.V.

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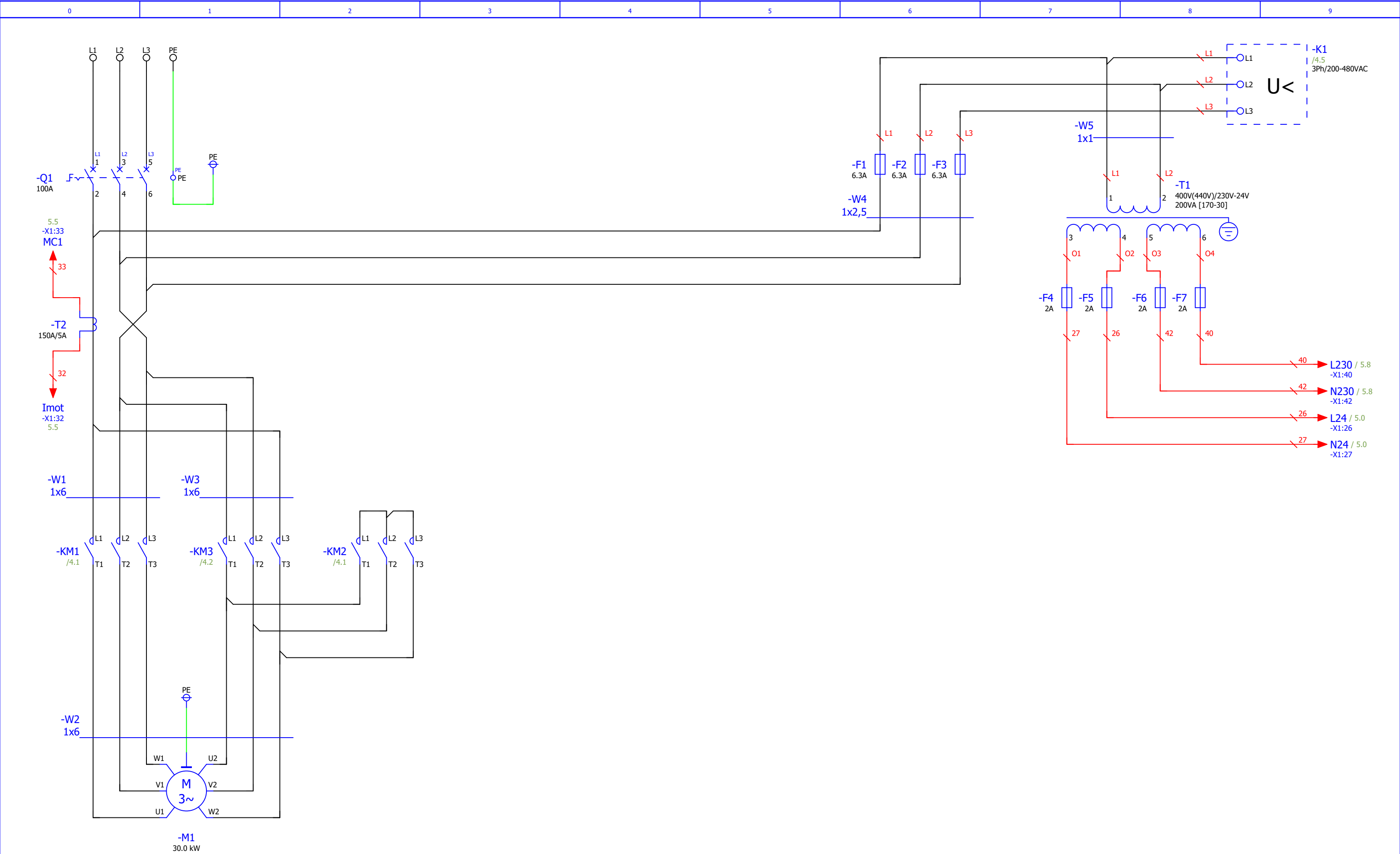
Operation and Maintenance Manual - Electrical part

Project name: DENO 30
Project number: 786-887-400_30
Index: EIE1542
Power supply: 380-420V/3Ph/50Hz 420-460V/3Ph/60Hz
Power supply type: L1, L2, L3, PE
Control: 24VAC
Control system: DMS-687

Last change: 23.05.2025
Number of pages: 12
Notes:

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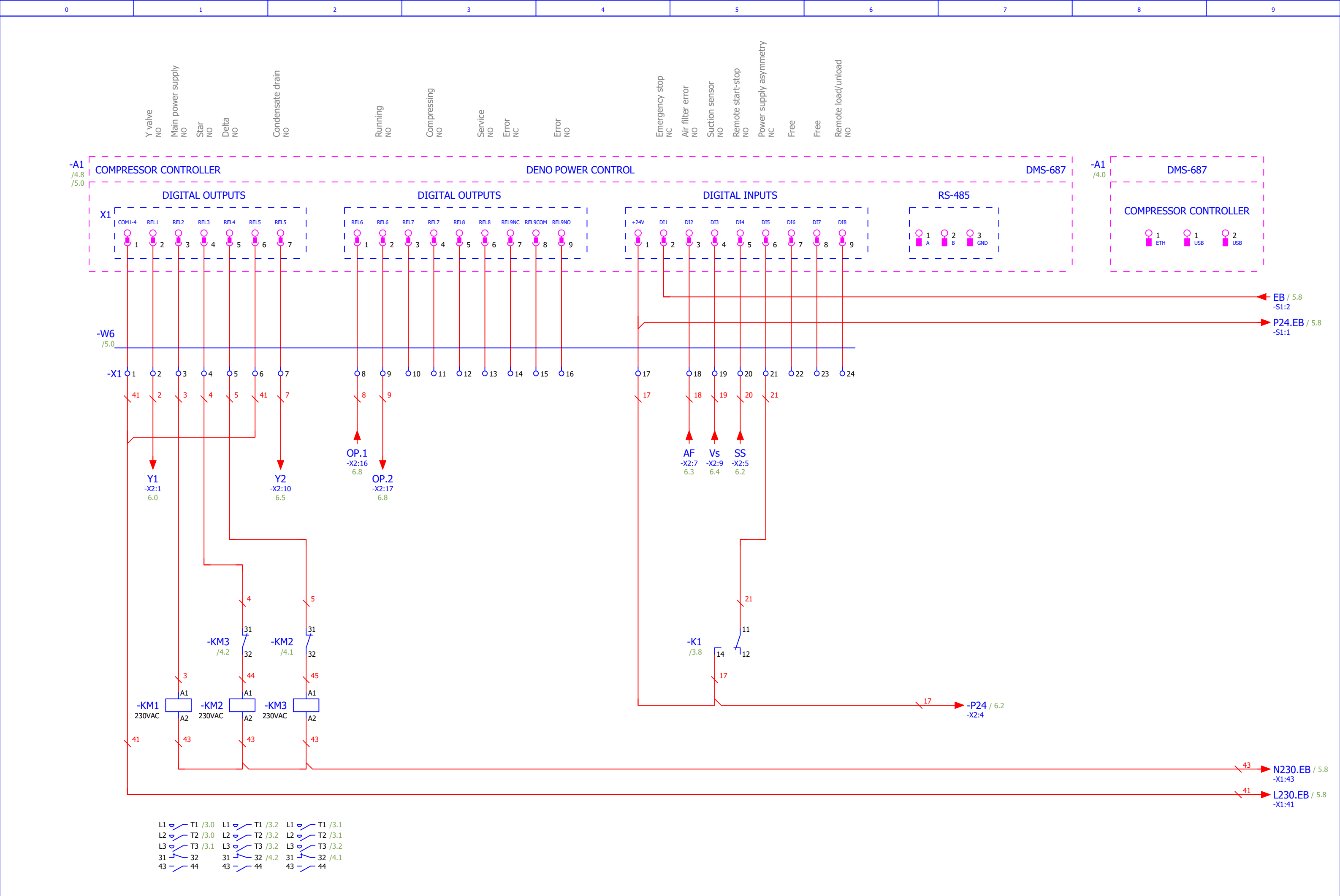
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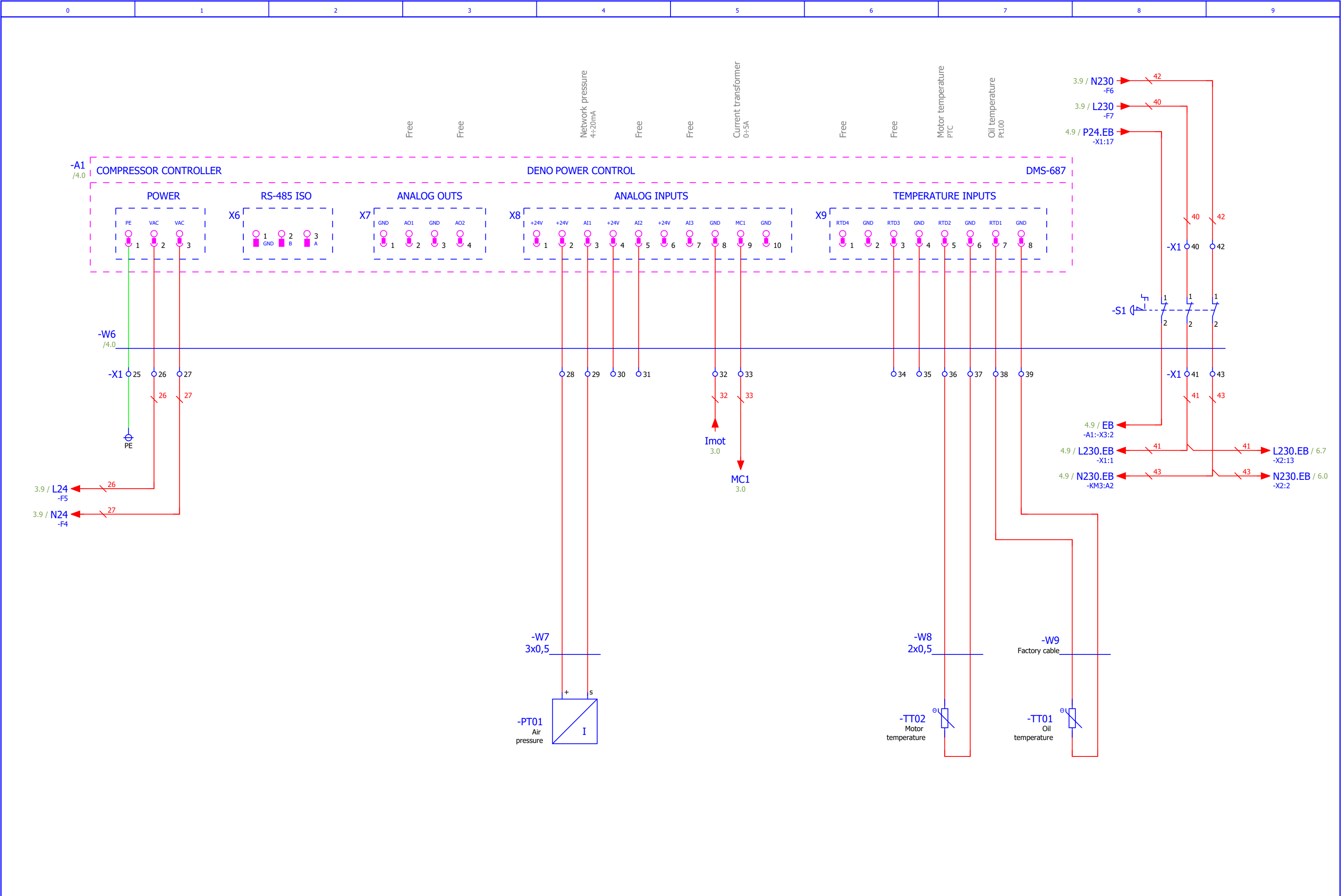


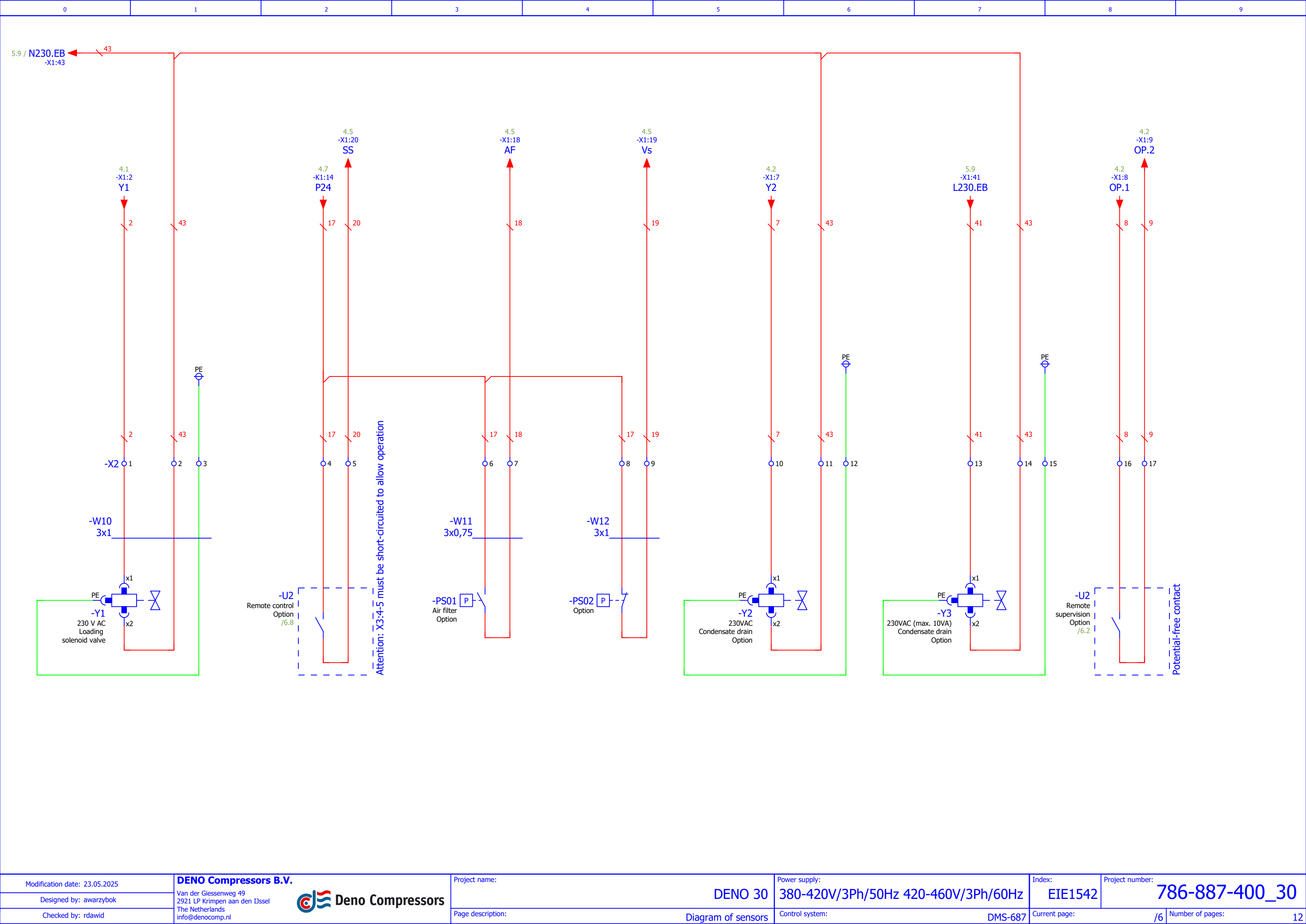
Phase	Direction of rotation			
	Left		Right	
L1	U1	W2	U1	V2
L2	W1	V2	V1	W2
L3	V1	U2	W1	U2

Attention:

- The direction of rotation is determined by looking at the motor from the drive side.
- Connection type suitable for counterclockwise direction of rotation.
- The method of connection depends on the design of the screw stage.







Configuration of inputs and outputs

Apparatus identifier		Function		Manufacturer		Type number		Index	
=+-A1		Microprocessor controller		Deno Compressors B.V.		DMS-687		ESM0199	
Connector number	Description of connector	Pin number	Pin name		Signal name		Logic / Range		
-X1	DIGITAL OUTPUTS	2	REL1		Y valve		NO		
-X1	DIGITAL OUTPUTS	3	REL2		Main power supply		NO		
-X1	DIGITAL OUTPUTS	4	REL3		Star		NO		
-X1	DIGITAL OUTPUTS	5	REL4		Delta		NO		
-X1	DIGITAL OUTPUTS	7	REL5		Condensate drain		NO		
-X2	DIGITAL OUTPUTS	2	REL6		Running		NO		
-X2	DIGITAL OUTPUTS	4	REL7		Compressing		NO		
-X2	DIGITAL OUTPUTS	6	REL8		Service		NO		
-X2	DIGITAL OUTPUTS	7	REL9NC		Error		NC		
-X2	DIGITAL OUTPUTS	9	REL9NO		=		NO		
-X3	DIGITAL INPUTS	2	DI1		Emergency stop		NC		
-X3	DIGITAL INPUTS	3	DI2		Air filter error		NO		
-X3	DIGITAL INPUTS	4	DI3		Suction sensor		NO		
-X3	DIGITAL INPUTS	5	DI4		Remote start-stop		NO		
-X3	DIGITAL INPUTS	6	DI5		Power supply asymmetry		NC		
-X3	DIGITAL INPUTS	7	DI6		Free				
-X3	DIGITAL INPUTS	8	DI7		=				
-X3	DIGITAL INPUTS	9	DI8		Remote load/unload		NO		
-X7	ANALOG INPUTS	2	AO1		Free				
-X7	ANALOG INPUTS	4	AO2		=				
-X8	ANALOG INPUTS	3	AI1		Network pressure		4÷20mA		
-X8	ANALOG INPUTS	5	AI2		Free				
-X8	ANALOG INPUTS	7	AI3		=				
-X8	ANALOG INPUTS	9	MC1		Current transformer		0÷5A		
-X9	TEMPERATURE INPUTS	1	RTD4		Free				
-X9	TEMPERATURE INPUTS	3	RTD3		=				
-X9	TEMPERATURE INPUTS	5	RTD2		Motor temperature		PTC		
-X9	TEMPERATURE INPUTS	7	RTD1		Oil temperature		Pt100		

List of articles

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Plan of terminals

		Terminal block						
		X1						
		Target ID	Connection	Terminal	Bridge	Target ID	Connection	
Position								
Sort of connector	Connector type							
Rail terminal block	AVK 2,5			1		-A1	-X1:1	/4.0
Rail terminal block	AVK 2,5	-X2	1	2		-A1	-X1:2	/4.1
Rail terminal block	AVK 2,5	-KM1	A1	3		-A1	-X1:3	/4.1
Rail terminal block	AVK 2,5	-KM3	31	4		-A1	-X1:4	/4.1
Rail terminal block	AVK 2,5	-KM2	31	5		-A1	-X1:5	/4.1
Rail terminal block	AVK 2,5			6		-A1	-X1:6	/4.1
Rail terminal block	AVK 2,5	-X2	10	7		-A1	-X1:7	/4.2
Rail terminal block	AVK 2,5	-X2	16	8		-A1	-X2:1	/4.2
Rail terminal block	AVK 2,5	-X2	17	9		-A1	-X2:2	/4.2
Rail terminal block	AVK 2,5			10		-A1	-X2:3	/4.3
Rail terminal block	AVK 2,5			11	-A1	-X2:4	/4.3	
Rail terminal block	AVK 2,5			12	-A1	-X2:5	/4.3	
Rail terminal block	AVK 2,5			13	-A1	-X2:6	/4.3	
Rail terminal block	AVK 2,5			14	-A1	-X2:7	/4.3	
Rail terminal block	AVK 2,5			15	-A1	-X2:8	/4.4	
Rail terminal block	AVK 2,5			16	-A1	-X2:9	/4.4	
Rail terminal block	AVK 2,5	-K1	14	17	-A1	-X3:1	/4.4	
					-S1	1		
Rail terminal block	AVK 2,5	-X2	7	18	-A1	-X3:3	/4.5	
Rail terminal block	AVK 2,5	-X2	9	19	-A1	-X3:4	/4.5	
Rail terminal block	AVK 2,5	-X2	5	20	-A1	-X3:5	/4.5	
Rail terminal block	AVK 2,5	-K1	11	21	-A1	-X3:6	/4.5	
Rail terminal block	AVK 2,5			22	-A1	-X3:7	/4.5	
Rail terminal block	AVK 2,5			23	-A1	-X3:8	/4.6	
Rail terminal block	AVK 2,5			24	-A1	-X3:9	/4.6	
PE rail terminal block	AVK 2,5/4 TK	-PE		25	-A1	-X5:1	/5.0	
Rail terminal block	AVK 2,5	-F5		26	-A1	-X5:2	/5.1	
Rail terminal block	AVK 2,5	-F4		27	-A1	-X5:3	/5.1	
Rail terminal block	AVK 2,5	-PT01	+	28	-A1	-X8:2	/5.4	
Rail terminal block	AVK 2,5	-PT01	s	29	-A1	-X8:3	/5.4	
Rail terminal block	AVK 2,5			30	-A1	-X8:4	/5.4	
Rail terminal block	AVK 2,5			31	-A1	-X8:5	/5.4	
Rail terminal block	AVK 2,5	-T2		32	-A1	-X8:8	/5.5	
Rail terminal block	AVK 2,5	-T2		33	-A1	-X8:9	/5.5	
Rail terminal block	AVK 2,5			34	-A1	-X9:3	/5.6	

Plan of terminals

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Plan of terminals

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