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SHEET	DESCRIPTION
01	INDEX
02	SPECIFICATIONS
03	POWER CIRCUIT
04	POWER CIRCUIT
05	POWER CIRCUIT
06	CONTROL CIRCUIT
07	REGULATOR MK55
08	EXPANSION MODULE I05
09	INPUT CONNECTIONS 2X27
10	INPUT CONNECTIONS 2X28
11	INPUT CONNECTIONS 2X30, 2X31
12	INPUT CONNECTIONS 10X33
13	INPUT CONNECTIONS 10X31, 10X35, 10X36
14	INPUT CONNECTIONS 10X32
15	INPUT CONNECTIONS 10X34
16	LEGEND
17	LEGEND
18	LEGEND
19	TERMINAL STRIPS
20	NOTES

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Name				Service diagram - VDR6350-8450				Secrecy Class			
Material								1102 K/ Confidential			
Treatment								ACD			
		Scale 1:1		Family		A3		Compare		Drawing owner	
Drawn by		Blank nr.		Replaces		AIF					
Version Drwg 1		Blank wt. Kg		Fini wt. Kg		Designation		Sheet 01 (20)			
STATUS		Des checked.		Prod checked.		Approved.		Date 12/13/2021		1839007644-01	

Note	Position	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D
1			2/18/2022	INWARD		

CUSTOMER'S INSTALLATION

MAIN POWER SUPPLY

VOLTAGE : _____ V
 FREQ : _____ Hz 3 PH

MAX. FUSE

IEC: CLASS GL/GG type "2"
 _____ A

UL: CLASS K5/RK5
 _____ A

NOTES:

Max. fuse with regard to shortcircuit protection of cubicle.
 Cable section may impose a fuse of smaller value.

OPTIONS	INSTALLED	DESCRIPTION	AC CODE
1	<input type="checkbox"/>	6 FANS (AIR COOLED)	1900511331 / 1900511332
3	<input type="checkbox"/>	VDR 8450	1900511335

DRYER

1

CONDENSOR FAN MOTORS

M1
 _____ kW
 _____ HP

M21
 _____ kW
 _____ HP

M22
 _____ kW
 _____ HP

F20
 _____ A

Q1
 _____ A

Q2
 _____ A

M23
 _____ kW
 _____ HP

M24
 _____ kW
 _____ HP

Q5
 _____ A

F6
 _____ A

F7
 _____ A

M25
 _____ kW
 _____ HP

M26
 _____ kW
 _____ HP

Q10
 _____ A

F11
 _____ A

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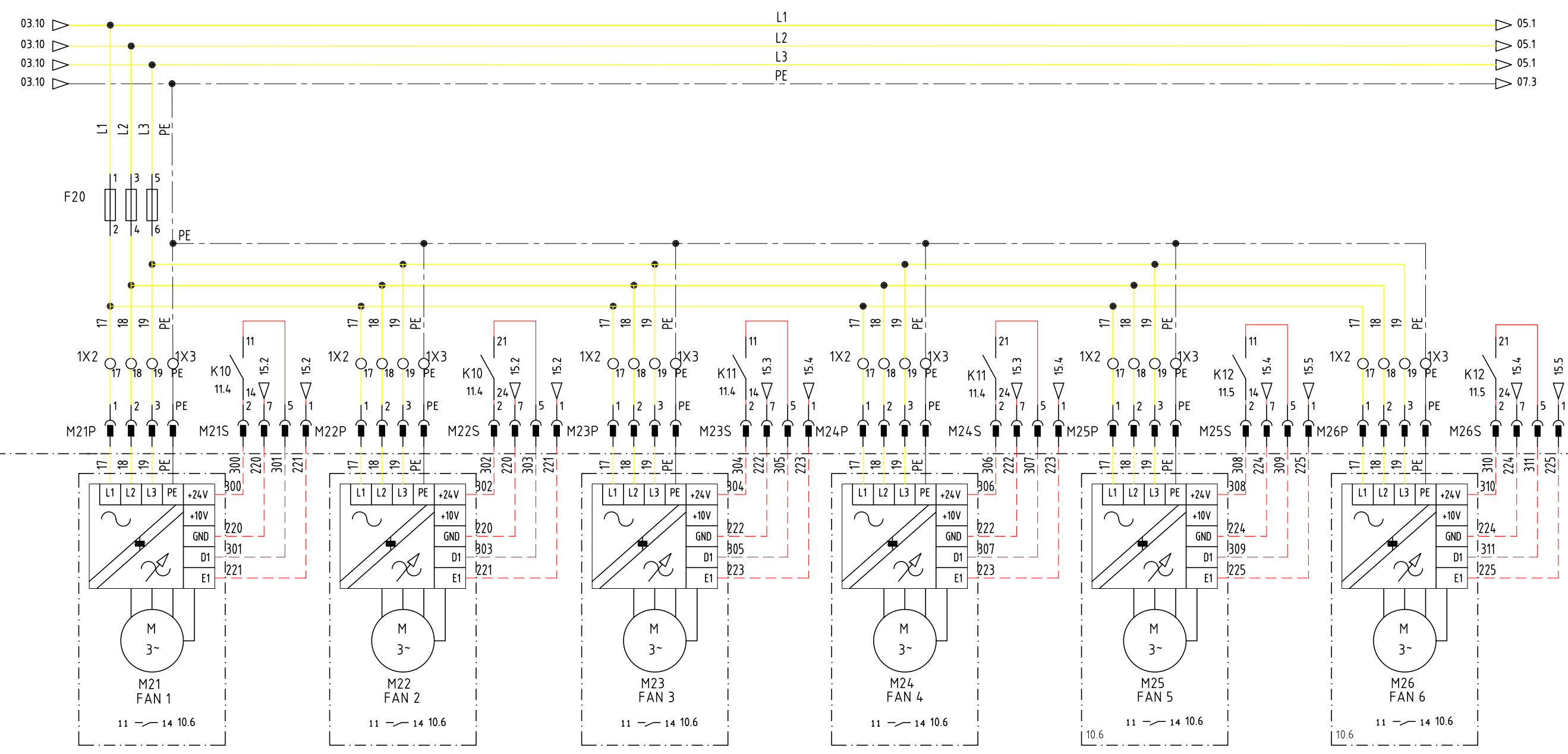
ACD
 Drawing owner
 AIF

Name Service diagram - VDR6350-8450

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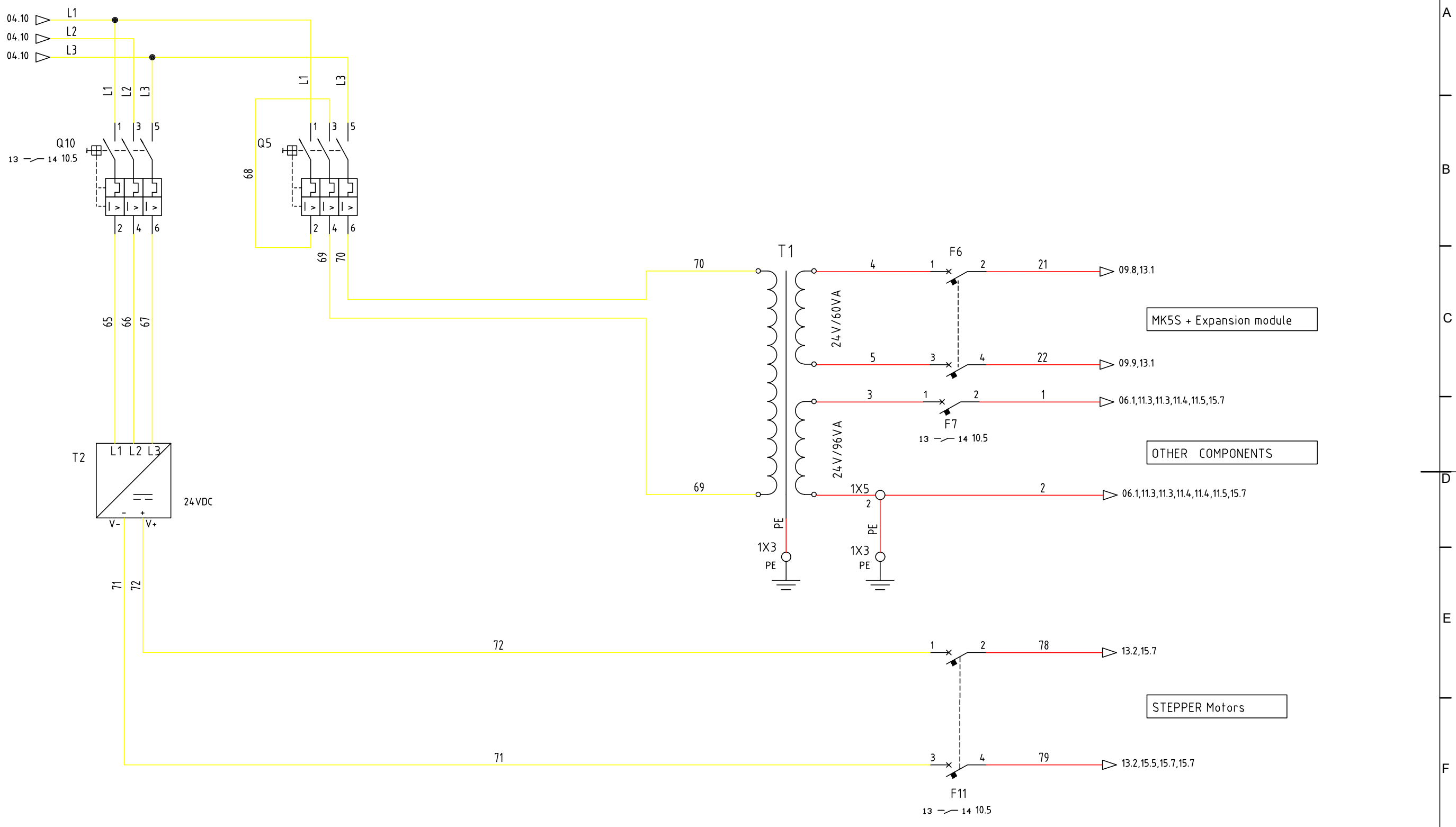
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 Sheet 02 (20)

1 CONDENSER FAN MOTORS



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1 2 3 4 5 6 7 8 9 10



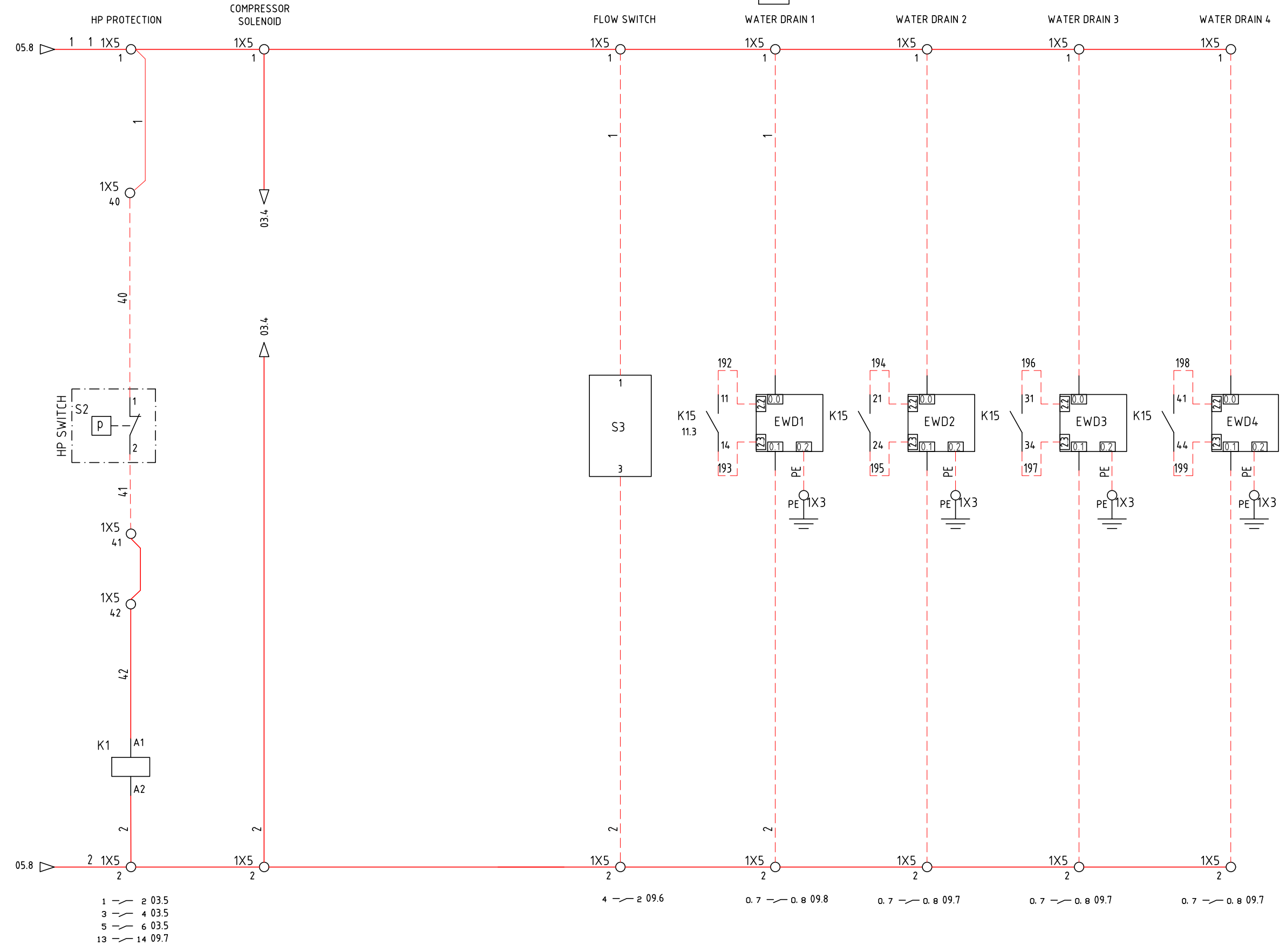
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1 — 2 03.5
3 — 4 03.5
5 — 6 03.5
13 — 14 09.7

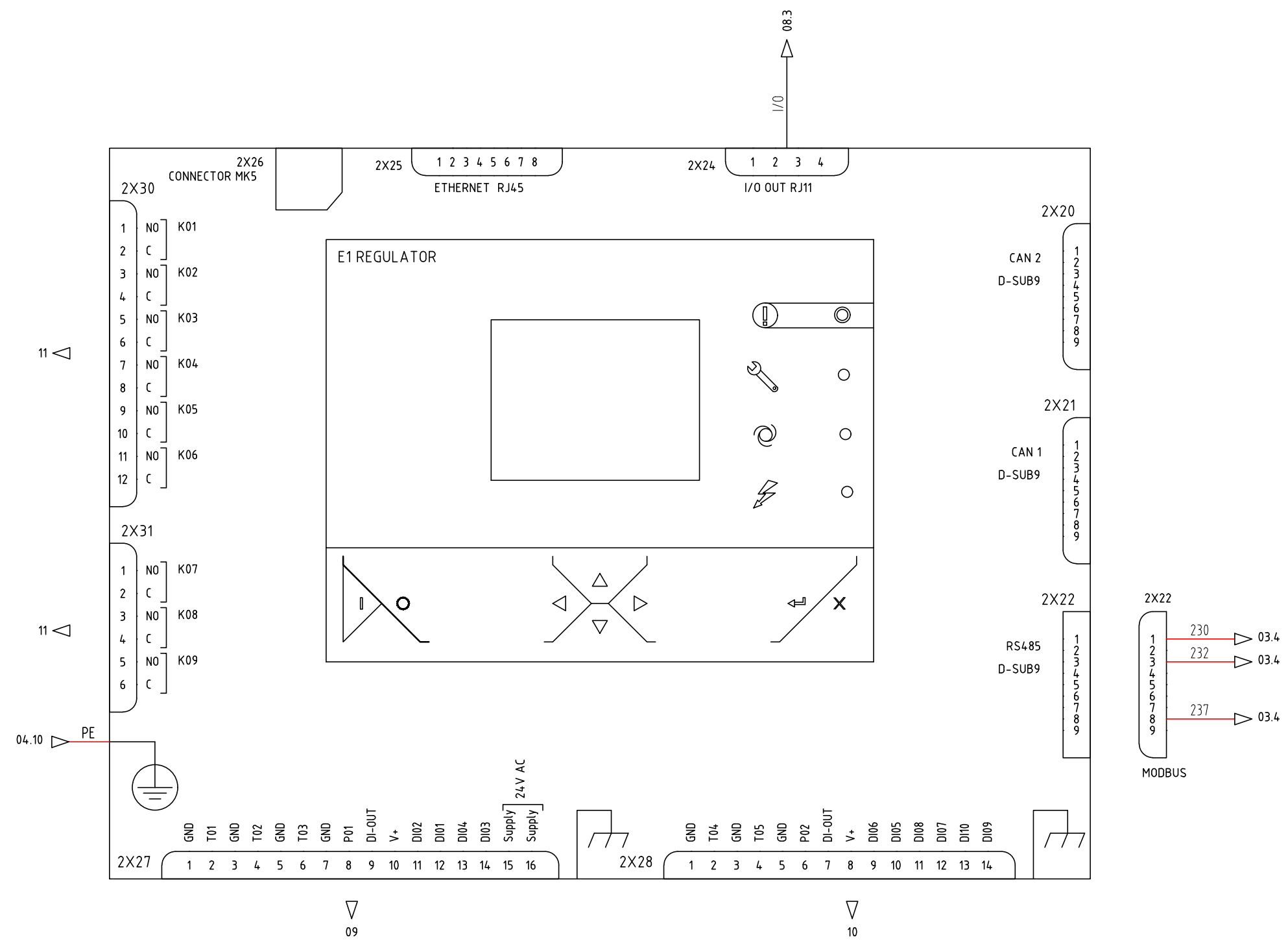
4 — 2 09.6 0.7 — 0.8 09.8 0.7 — 0.8 09.7 0.7 — 0.8 09.7 0.7 — 0.8 09.7

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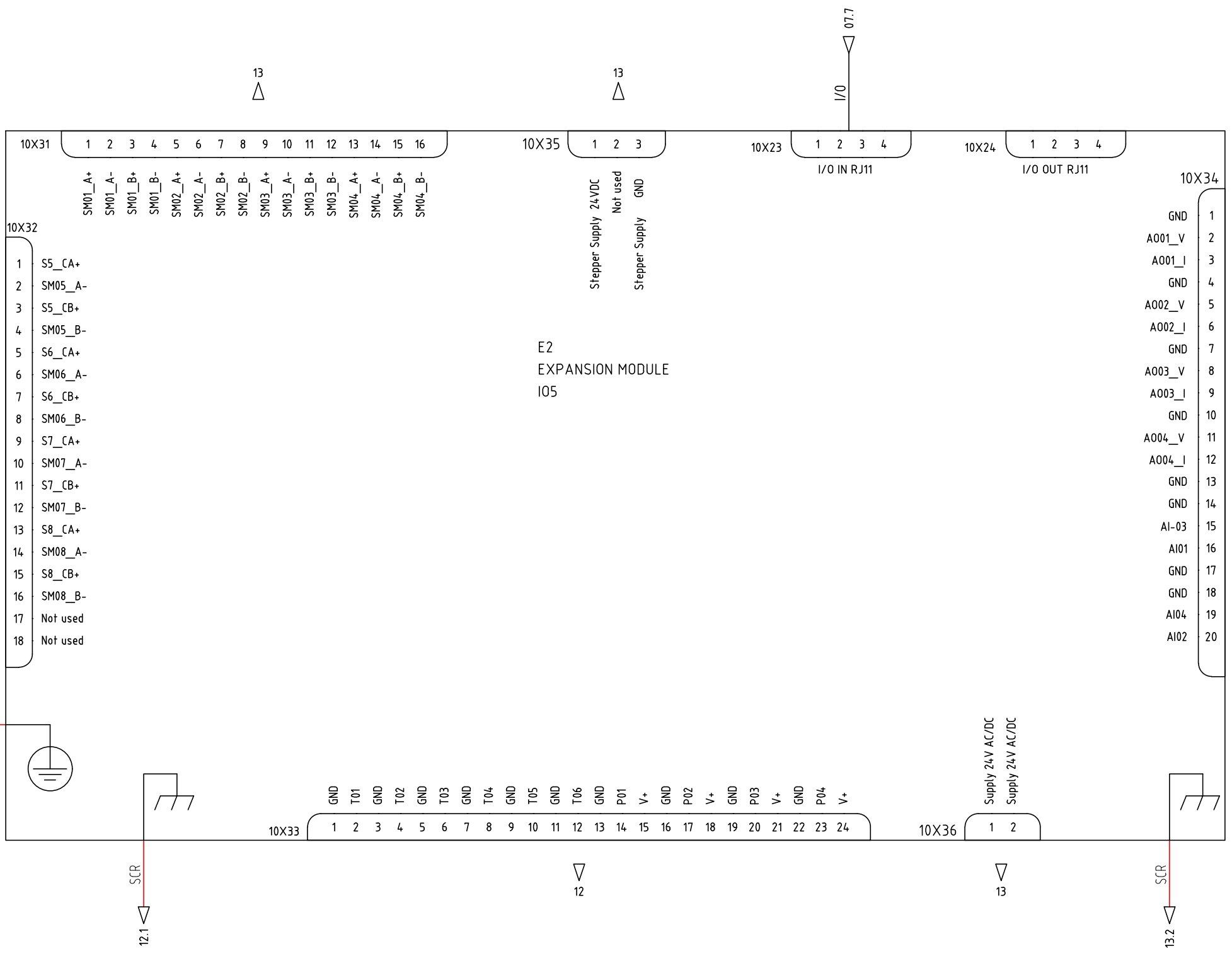


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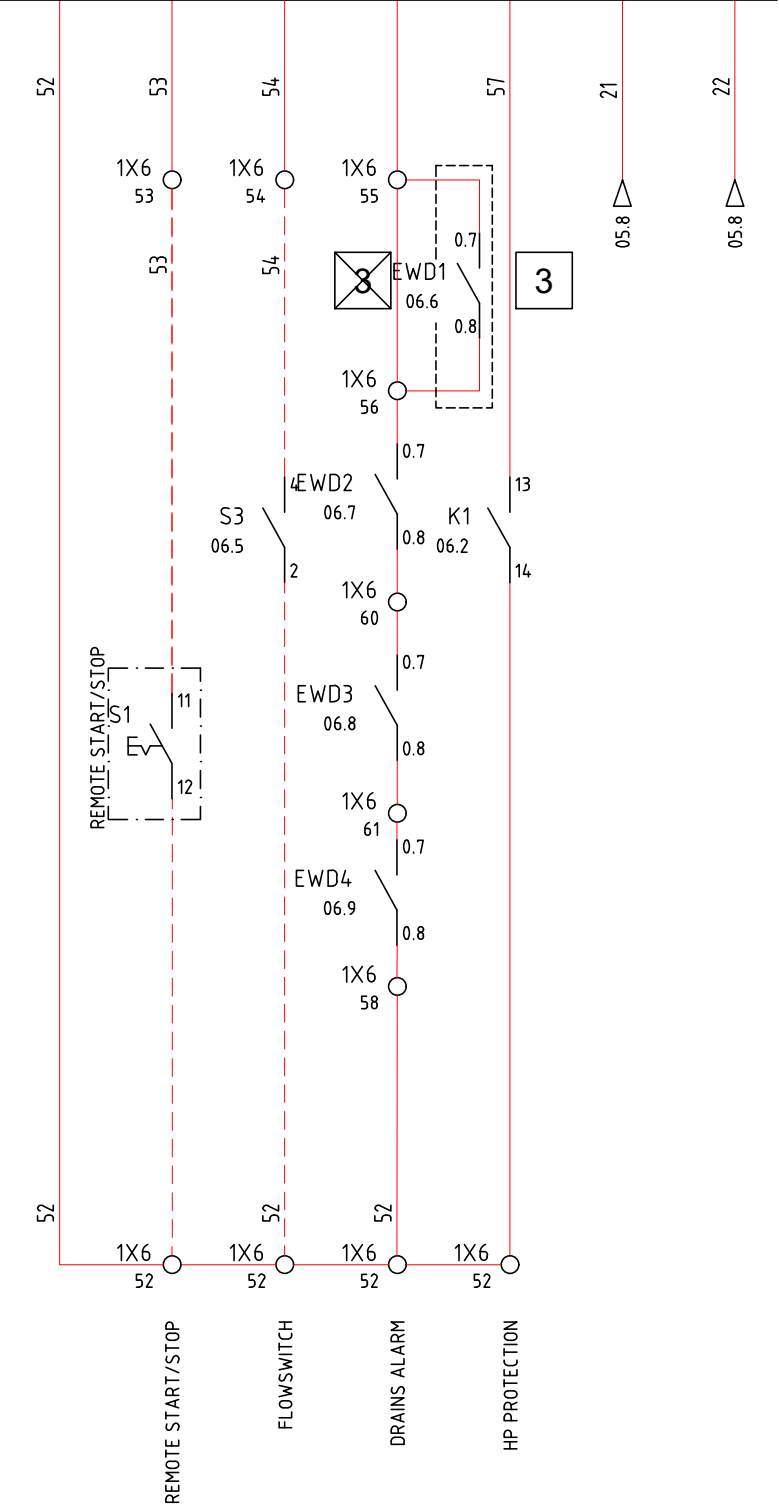
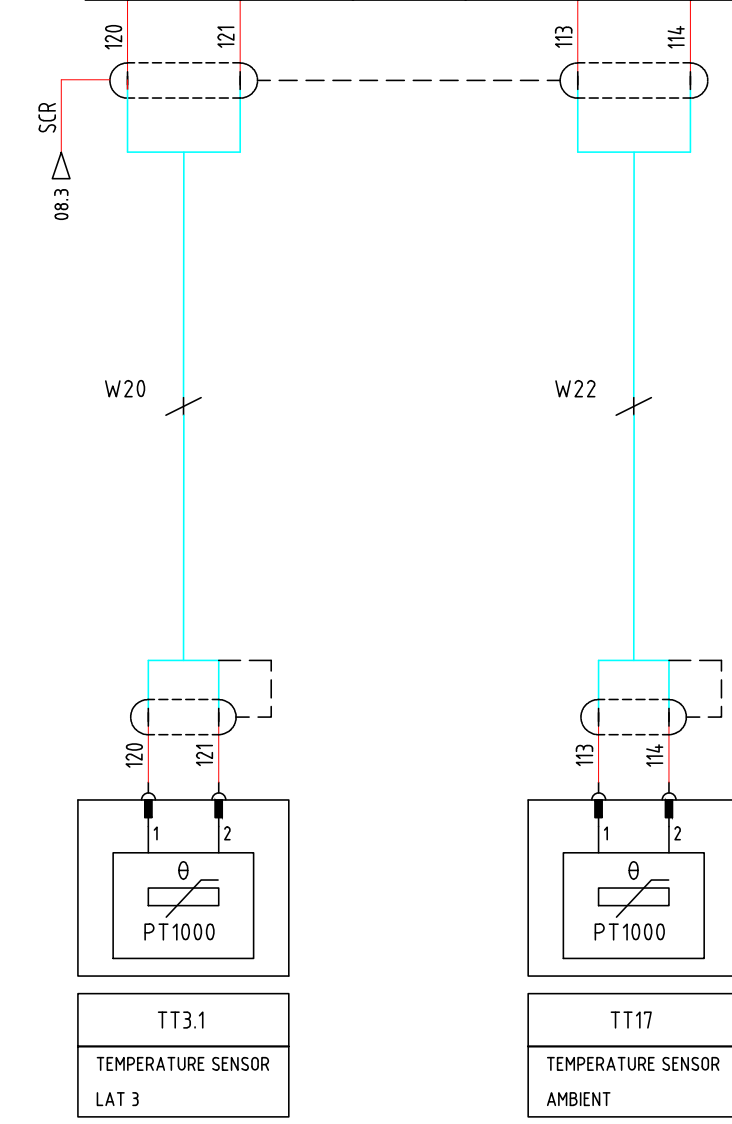
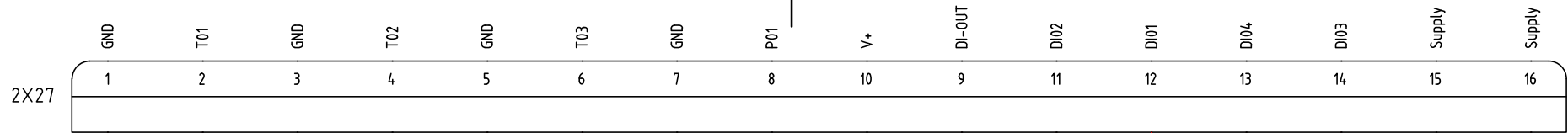


E2
EXPANSION MODULE
IO5

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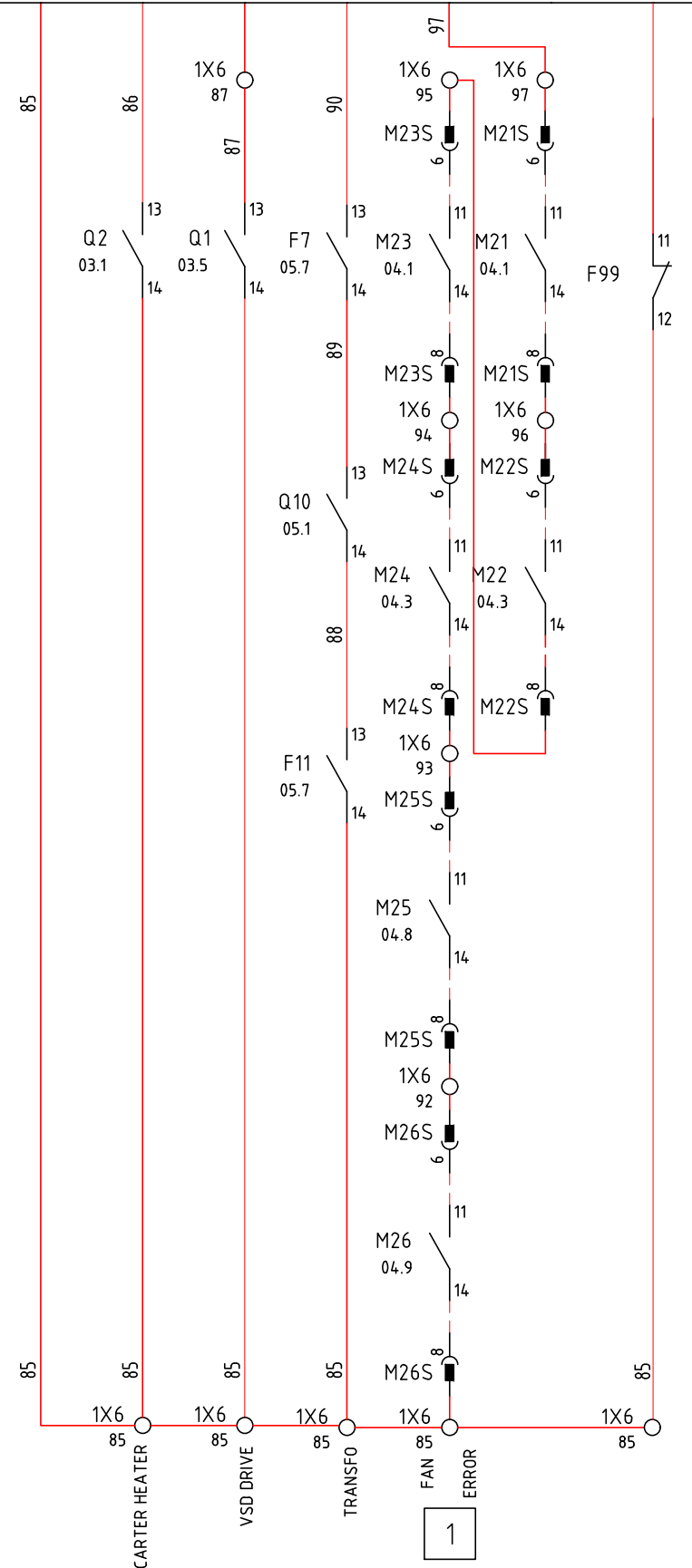
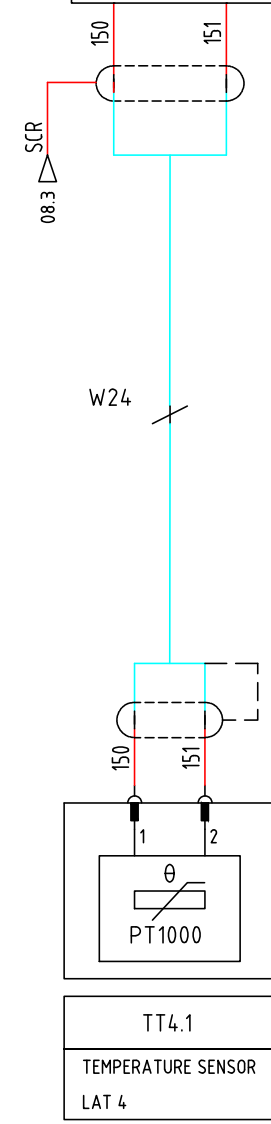
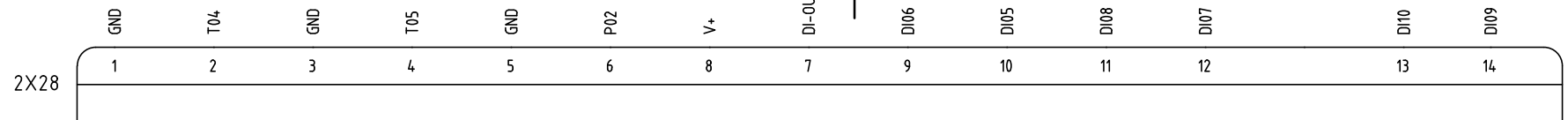


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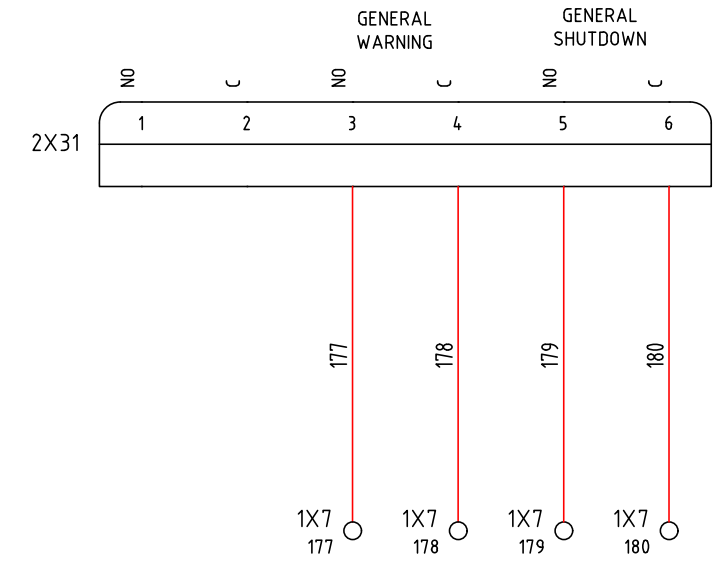
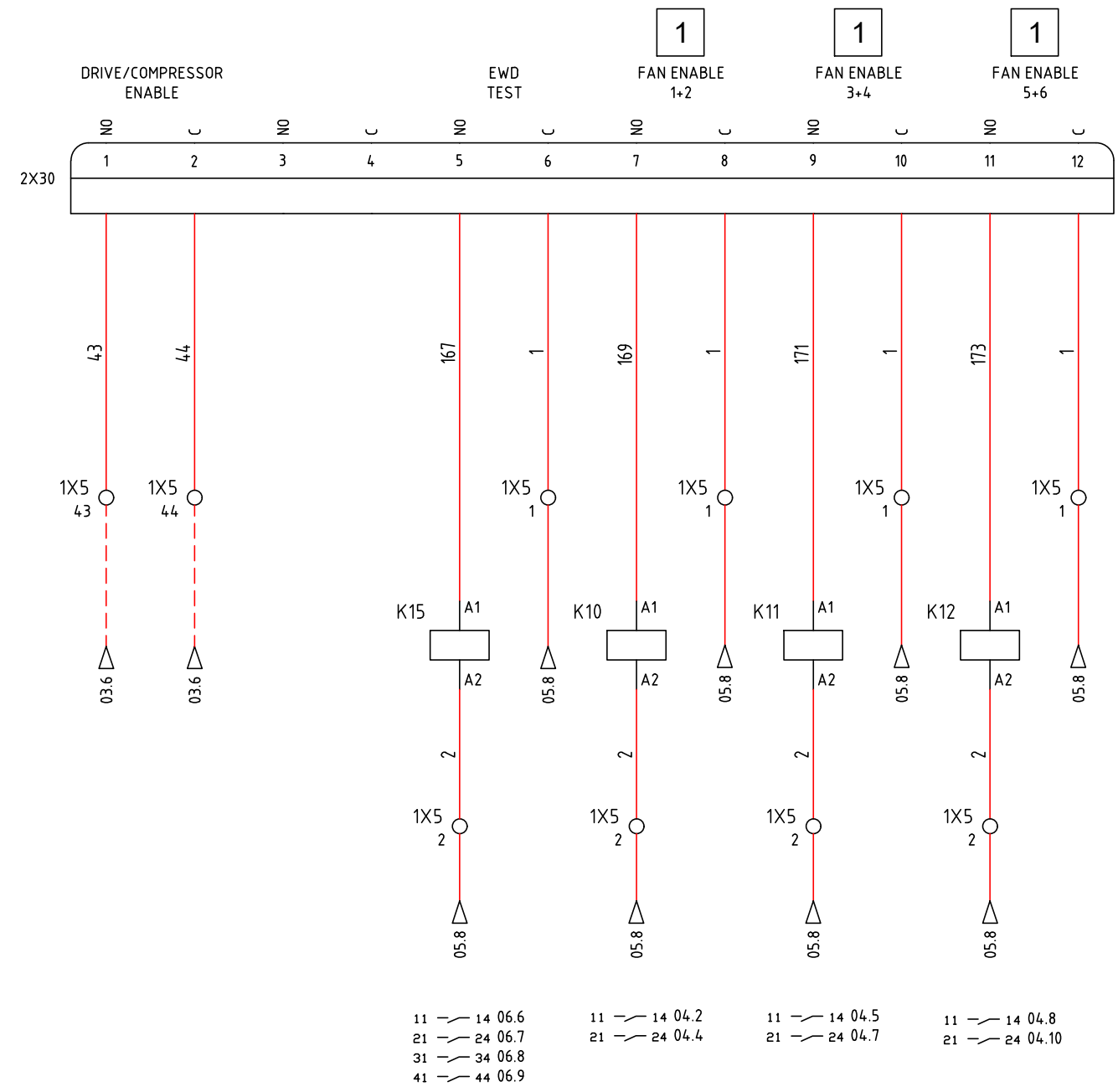
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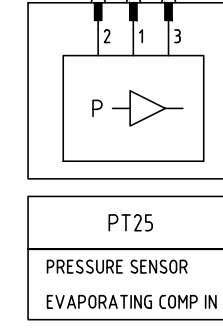
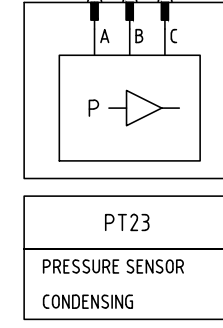
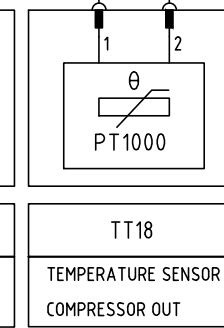
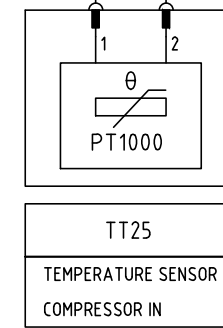
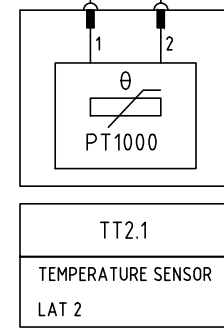
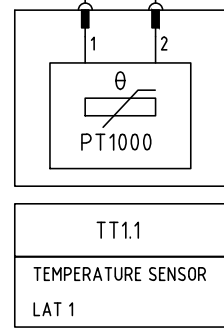
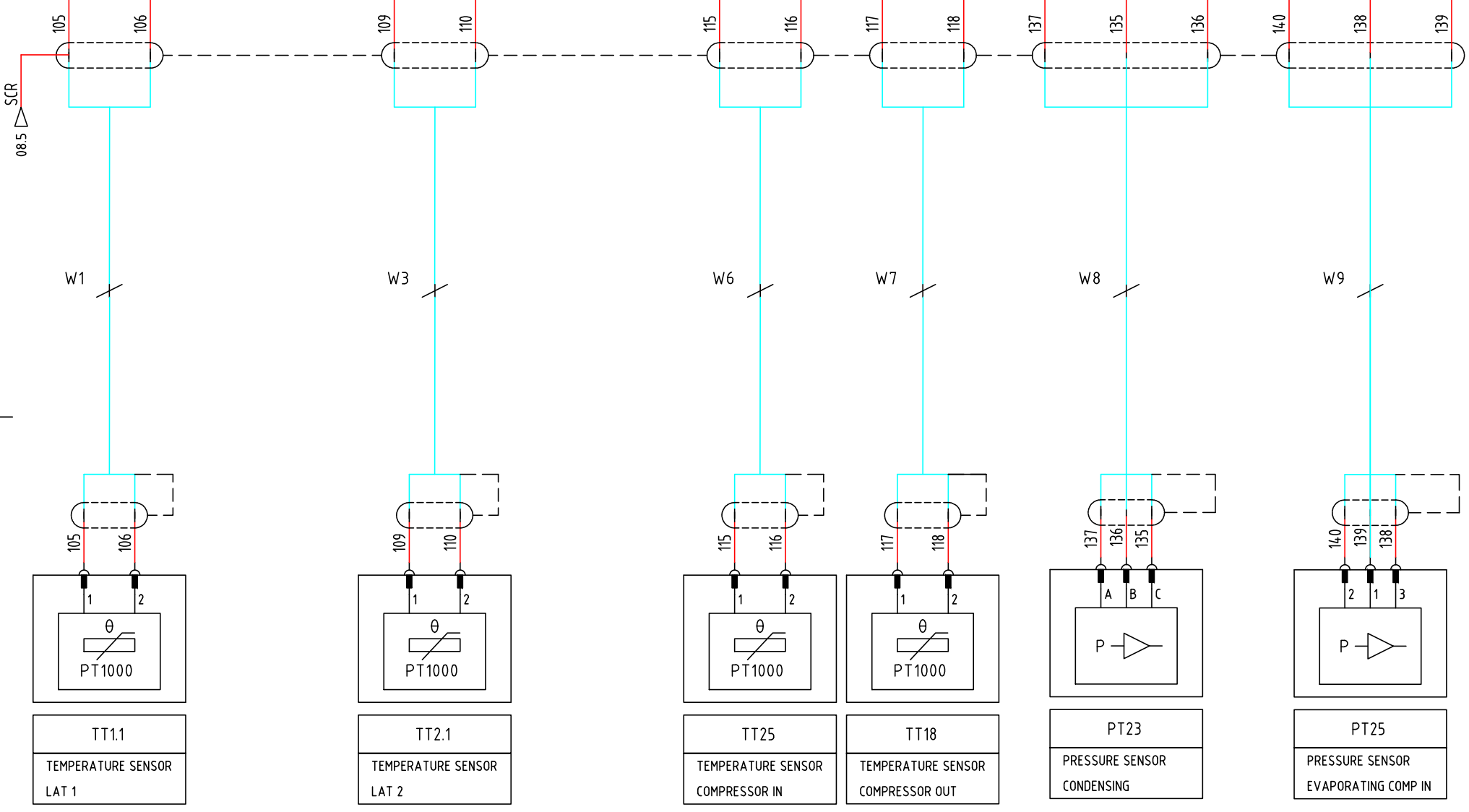
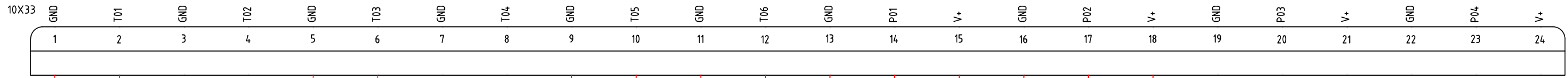
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ACD
Drawing owner
AIF

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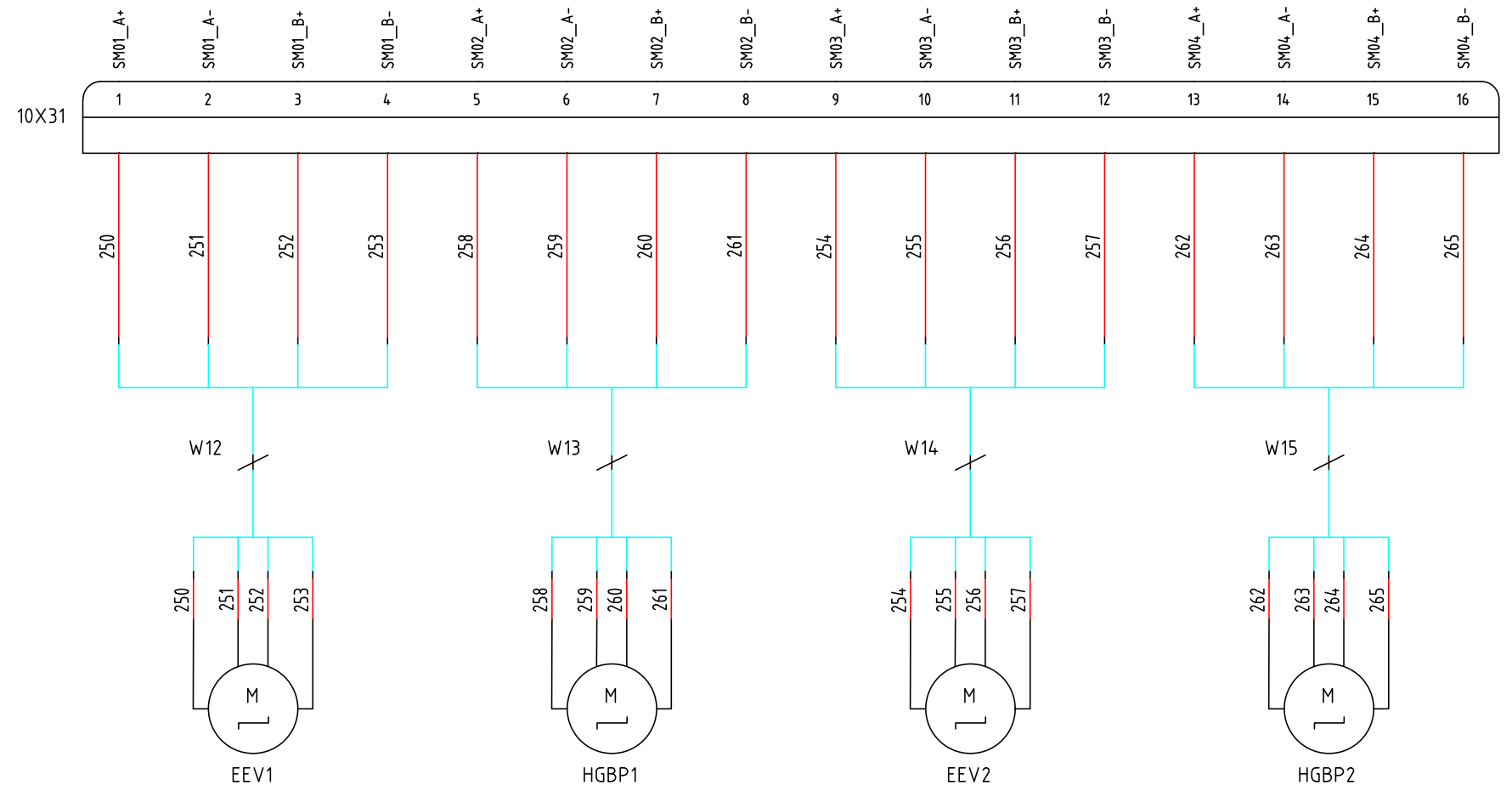
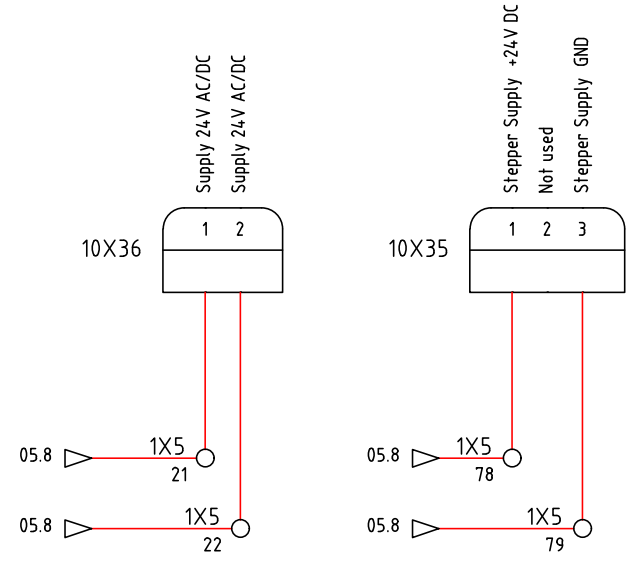
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Drawing owner
AIF

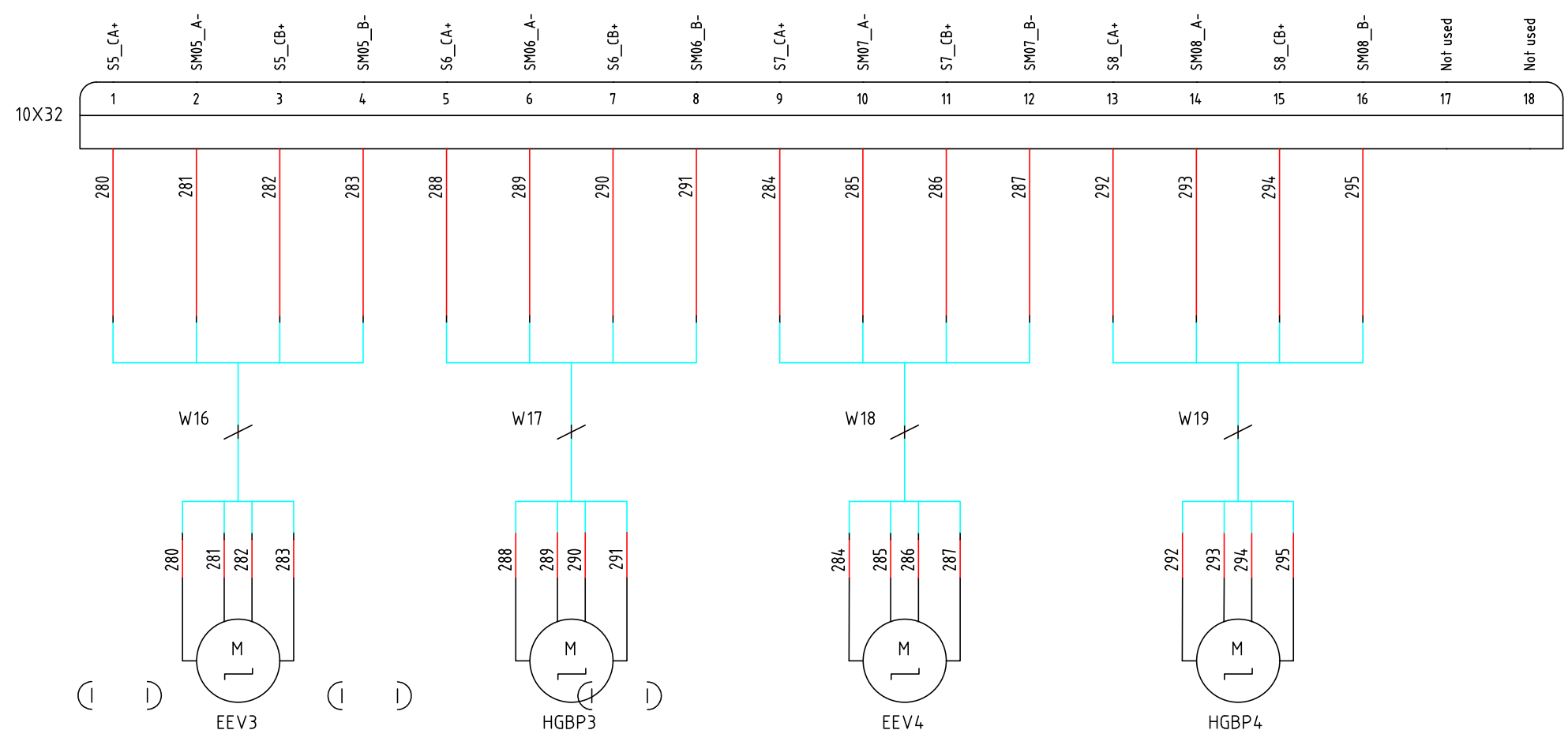
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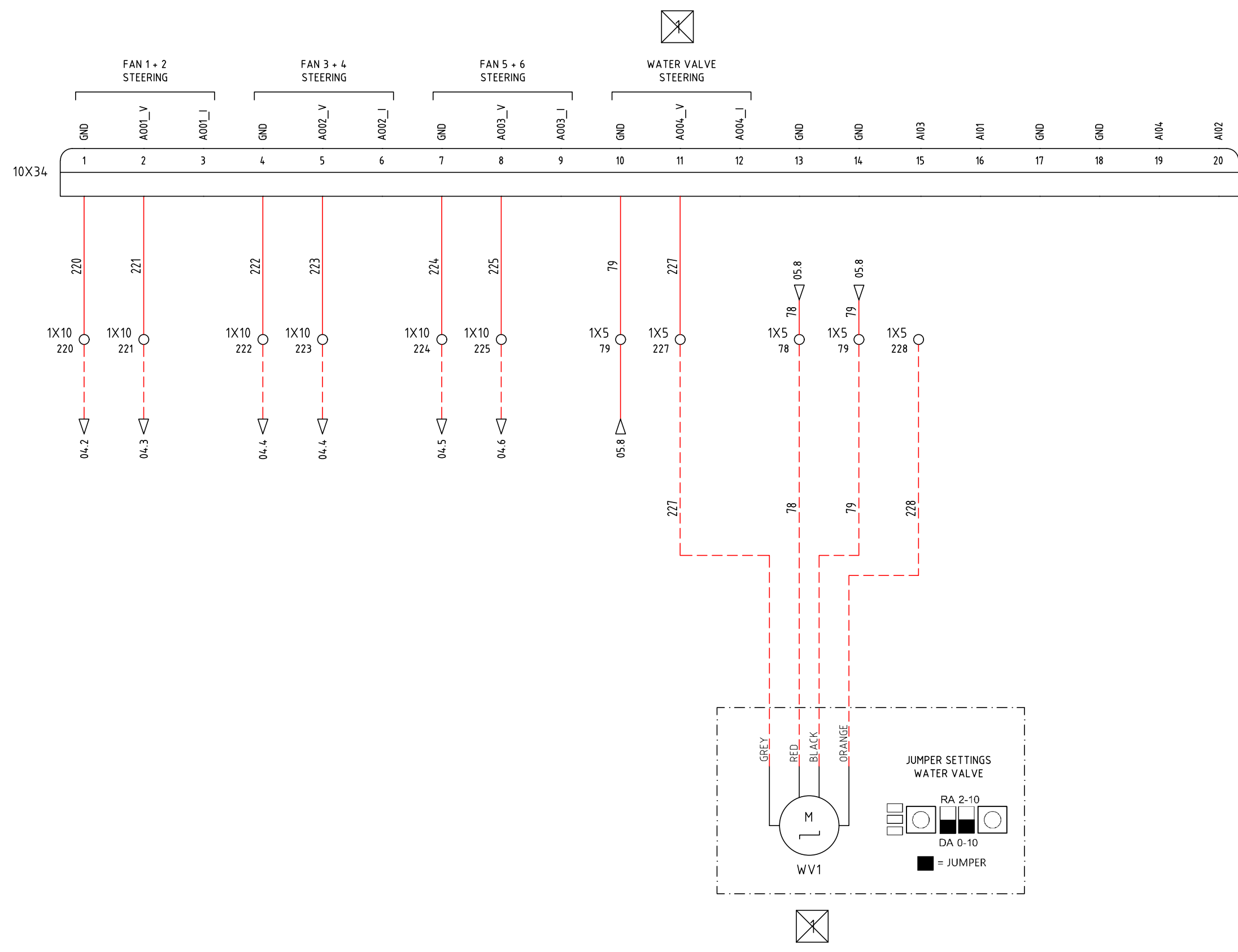


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LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CANOPY	EEV1	13	STEPPER MOTOR	EEV1
CANOPY	EEV2	13	STEPPER MOTOR	EEV2
CANOPY	EEV3	14	STEPPER MOTOR	EEV3
CANOPY	EEV4	14	STEPPER MOTOR	EEV4
CANOPY	EWD1	06	ELECTRONIC WATER DRAIN	DRYER
CANOPY	EWD2	06	ELECTRONIC WATER DRAIN	DRYER
CANOPY	EWD3	06	ELECTRONIC WATER DRAIN	DRYER
CANOPY	EWD4	06	ELECTRONIC WATER DRAIN	DRYER
CANOPY	EWD5	06	ELECTRONIC WATER DRAIN	AIR FILTER
CANOPY	GND11	06	GROUND	EWD1
CANOPY	GND11	06	GROUND	EWD1
CANOPY	GND11	06	GROUND	EWD1
CANOPY	GND11	06	GROUND	EWD1
CANOPY	GND13	06	GROUND	EWD3
CANOPY	HGBP1	13	STEPPER MOTOR	HGBP1
CANOPY	HGBP2	13	STEPPER MOTOR	HGBP2
CANOPY	HGBP3	14	STEPPER MOTOR	HGBP3
CANOPY	HGBP4	14	STEPPER MOTOR	HGBP4
CANOPY	M1	03	MOTOR	COMPRESSOR
CANOPY	M21	04	MOTOR	FAN 1
CANOPY	M21P	04	CONNECTOR	FAN 1 POWER
CANOPY	M21S	04	CONNECTOR	FAN 1 SIGNAL
CANOPY	M22	04	MOTOR	FAN 2
CANOPY	M22P	04	CONNECTOR	FAN 2 POWER
CANOPY	M22S	04	CONNECTOR	FAN 2 SIGNAL
CANOPY	M23	04	MOTOR	FAN 3
CANOPY	M23P	04	CONNECTOR	FAN 3 POWER
CANOPY	M23S	04	CONNECTOR	FAN 3 SIGNAL
CANOPY	M24	04	MOTOR	FAN 4
CANOPY	M24P	04	CONNECTOR	FAN 4 POWER
CANOPY	M24S	04	CONNECTOR	FAN 4 SIGNAL
CANOPY	M25	04	MOTOR	FAN 5
CANOPY	M25P	04	CONNECTOR	FAN 5 POWER
CANOPY	M25S	04	CONNECTOR	FAN 5 SIGNAL
CANOPY	M26	04	MOTOR	FAN 6
CANOPY	M26P	04	CONNECTOR	FAN 6 POWER
CANOPY	M26S	04	CONNECTOR	FAN 6 SIGNAL
CANOPY	PT23	12	PRESSURE SENSOR	CONDENSING

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LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CANOPY	PT25	12	PRESSURE SENSOR	EVAPORATING COMP IN
CANOPY	RS1	03	HEATER PAD	HEATER PAD COMPRESSOR
CANOPY	S2	06	SWITCH	HIGH PRESSURE
CANOPY	S3	06	SWITCH	FLOW
CANOPY	TT1.1	12	TEMPERATURE SENSOR	LAT 1
CANOPY	TT2.1	12	TEMPERATURE SENSOR	LAT 2
CANOPY	TT3.1	09	TEMPERATURE SENSOR	LAT 3
CANOPY	TT4.1	10	TEMPERATURE SENSOR	LAT 4
CANOPY	TT17	09	TEMPERATURE SENSOR	AMBIENT
CANOPY	TT18	12	TEMPERATURE SENSOR	COMPRESSOR OUT
CANOPY	TT25	12	TEMPERATURE SENSOR	COMPRESSOR IN
CANOPY	U1	03	CONVERTER	COMPRESSOR
CANOPY	WV1	15	STEPPER MOTOR	WATER VALVE 1
CANOPY	X1.1	03	CONNECTOR	HEATER PAD
CANOPY	Y10	03	SOLENOID	COMPRESSOR
CONTROL PANEL	2X24	07	CONNECTOR MK5	I/O OUT RJ11
CONTROL PANEL	2X25	07	CONNECTOR MK5	ETHERNET RJ45
CONTROL PANEL	2X26	07	CONNECTOR MK5	MEMORY CARD
CONTROL PANEL	2X27	09	CONNECTOR MK5	
CONTROL PANEL	2X28	10	CONNECTOR MK5	
CONTROL PANEL	2X30	11	CONNECTOR MK5	AUX RELAIS (K01-K06)
CONTROL PANEL	2X31	11	CONNECTOR MK5	AUX RELAIS (K07-K09)
CONTROL PANEL	10X23	08	CONNECTOR I05	I/O IN RJ11
CONTROL PANEL	10X24	08	CONNECTOR I05	I/O OUT RJ11
CONTROL PANEL	10X31	13	CONNECTOR I05	
CONTROL PANEL	10X32	14	CONNECTOR I05	
CONTROL PANEL	10X33	12	CONNECTOR I05	
CONTROL PANEL	10X34	15	CONNECTOR I05	
CONTROL PANEL	10X35	13	CONNECTOR I05	
CONTROL PANEL	10X36	13	CONNECTOR I05	SUPPLY 24V AC/DC
CONTROL PANEL	E1	07	REGULATOR	MK5S
CONTROL PANEL	E2	08	EXPANSION MODULE	I05
CONTROL PANEL	F6	05	CIRCUIT BREAKER	MK5/EXPANSION MODULE
CONTROL PANEL	F7	05	CIRCUIT BREAKER	OTHER COMPONENTS

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LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CONTROL PANEL	F11	05	CIRCUIT BREAKER	STEERING BOARDS
CONTROL PANEL	F20	04	FUSE	FANS
CONTROL PANEL	GND1	03	GROUND	1X3
CONTROL PANEL	GND2	05	GROUND	T1
CONTROL PANEL	GND3	05	GROUND	T1
CONTROL PANEL	GND5	03	GROUND	1X3
CONTROL PANEL	K1	06	CONTACTOR	COMPRESSOR RUN
CONTROL PANEL	K10	11	RELAIS	RUN ENABLE FAN1+2
CONTROL PANEL	K11	11	RELAIS	RUN ENABLE FAN3+4
CONTROL PANEL	K12	11	RELAIS	RUN ENABLE FAN5+6
CONTROL PANEL	K15	11	RELAIS	DRAIN TEST
CONTROL PANEL	Q1	03	CIRCUIT BREAKER	DRIVE
CONTROL PANEL	Q2	03	CIRCUIT BREAKER	HEATER
CONTROL PANEL	Q5	05	CIRCUIT BREAKER	TRANSFORMER T1
CONTROL PANEL	Q10	05	CIRCUIT BREAKER	TRANSFORMER T2
CONTROL PANEL	T1	05	TRANSFORMER	MK5/EXPANSION/OTHER
CONTROL PANEL	T2	05	POWER SUPPLY	SMARTBOX
CUSTOMER	F0	03	FUSE	CUSTOMER'S INSTALLATION
CUSTOMER	S0	03	CUSTOMER'S INSTALLATION	MAIN SWITCH
CUSTOMER	S1	09	CUSTOMER'S INSTALLATION	REMOTE START/STOP

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STRIP-ID	WIRENO	SH
1X0	L1	03
1X0	L2	03
1X0	L3	03
1X2	17	04
1X2	17	04
1X2	17	04
1X2	17	04
1X2	17	04
1X2	17	04
1X2	18	04
1X2	18	04
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1X2	19	04
1X2	19	04
1X2	19	04
1X2	19	04
1X2	19	04
1X2	19	04
1X3	PE	03
1X3	PE	03
1X3	PE	04
1X3	PE	04
1X3	PE	04
1X3	PE	04
1X3	PE	04
1X3	PE	04
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1X3	PE	05
1X3	PE	06
1X3	PE	06
1X3	PE	06
1X3	PE	06
1X5	1	06
1X5	1	06
1X5	1	06
1X5	1	06
1X5	1	06

1X5	1	06
1X5	1	06
1X5	1	11
1X5	1	11
1X5	1	11
1X5	1	11
1X5	1	11
1X5	2	05
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1X5	21	13
1X5	22	13
1X5	40	06
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1X5	42	06
1X5	43	11
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1X5	78	13
1X5	78	15
1X5	79	13
1X5	79	15
1X5	79	15
1X5	227	15
1X5	228	15
1X6	52	09
1X6	52	09
1X6	52	09
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1X6	55	09
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1X6	58	09
1X6	60	09

1X6	61	09
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1X6	85	10
1X6	85	10
1X6	87	10
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1X6	92	10
1X6	93	10
1X6	94	10
1X6	95	10
1X6	96	10
1X6	97	10
1X7	177	11
1X7	178	11
1X7	179	11
1X7	180	11
1X10	220	15
1X10	221	15
1X10	222	15
1X10	223	15
1X10	224	15
1X10	225	15

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1 2 3 4 5 6 7 8 9 10

NOTES

Cables:

Power wires

- Installed wires
- - - Optional installed wires
- . - . - Earth/ground installed wires
- - - - - Customer installed wires

Control/other wires:

- Installed wires
- - - Optional installed wires
- . - . - Earth/ground installed wires
- - - - - Customer installed wires
- - - - - Wires installed by production
- Installed multi wire cables
- - - - - Component links
- - - - - Terminal/connector links

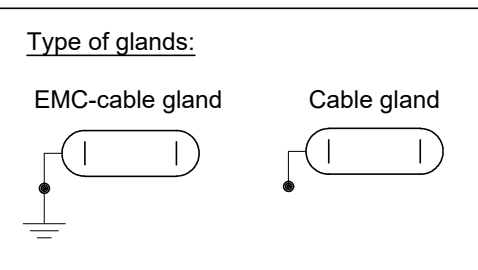
Terminal diagram:

- 1X0 : Supply
- 1X1 : Main motor connections
- 1X2 : Fan/Dryer motor connections
- 1X3 : Earth
- 1X4 : 115V/230V AC control circuit
- 1X5 : 24V AC control circuit
- 1X6 : 24V DC control circuit
- 1X7 : Customer contacts
- 1X8 : Option terminals
- 1X9 : Standard connector terminals
- 1X10 : Optional connector terminals
- 1X11 : Signal/data terminals

[A] Only for CSA/UL variant

Tightening torque for bolts:

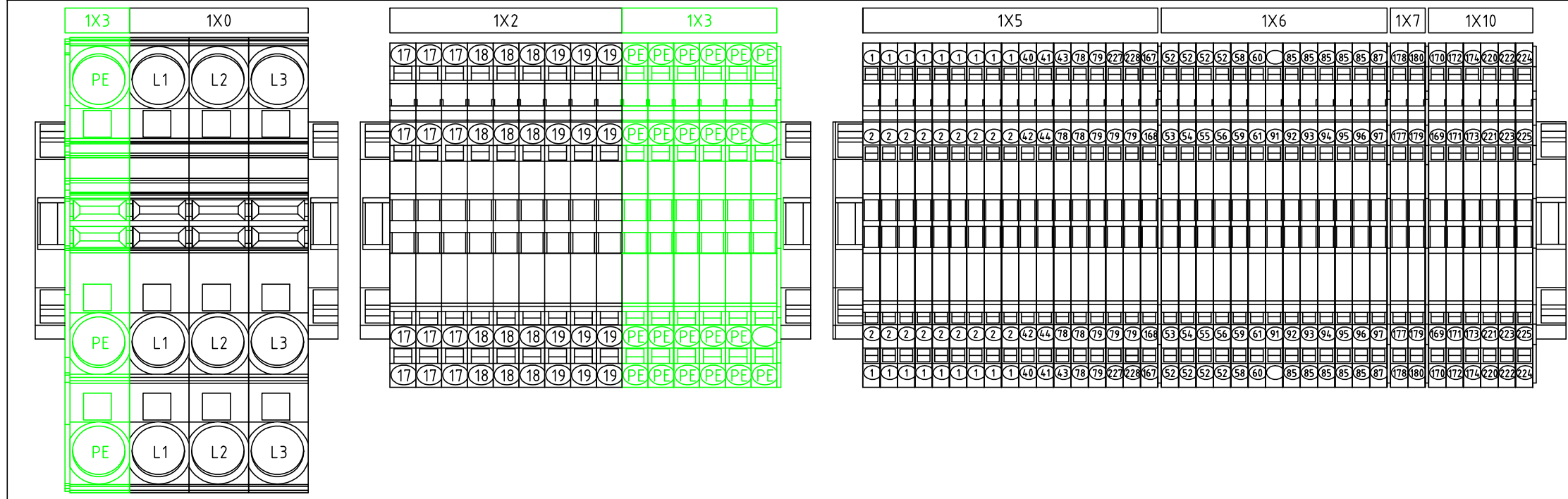
- metric thread size M5: 2,7Nm (2 lbft)
- metric thread size M6: 7Nm (5 lbft)
- metric thread size M8: 12Nm (9 lbft)
- metric thread size M10: 20Nm (15 lbft)
- metric thread size M12: 30Nm (22,5 lbft)



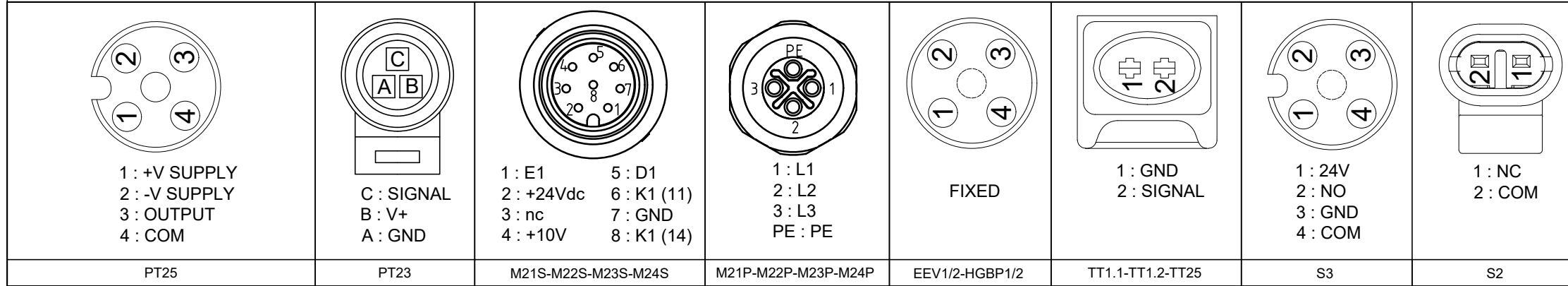
CLASS MARKING CIRCUIT LESS THAN 30Vrms				
COMPONENT	REFERENCE	TORQUE (NM)	CLASS 1 CONTROL CIRCUIT	CLASS 2 CONTROL CIRCUIT
TERMINAL	1X5 (*)	-	X	
TERMINAL	1X6 (*)	-	X	
TERMINAL	1X7 (*)	-	X	
TERMINAL	1X10 (*)	-	X	
CONNECTOR	2X27 (*)	-	X	
CONNECTOR	2X28 (*)	-	X	
CONNECTOR	2X30 (*)	-	X	
CONNECTOR	2X31 (*)	-	X	
CONNECTOR	10X31 (*)	-	X	
CONNECTOR	10X33 (*)	-	X	
CONNECTOR	10X34 (*)	-	X	
CONNECTOR	10X35 (*)	-	X	
CONNECTOR	10X36 (*)	-	X	

(*)-24V is used

Terminal layout



Sensor pin configuration



Elektronikon buttons

- Start Button
- Programmed Stop Button

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