SHEET	DESCRIPTION
01	INDEX
02	SPECIFICATIONS
03	POWER CIRCUIT
04	POWER CIRCUIT
05	POWER CIRCUIT
06	CONTROL CIRCUIT
07	EXPANSION MODULE MK5S
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 10X34
15	LEGEND
16	LEGEND
17	LEGEND
18	TERMINAL STRIPS
19	NOTES

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Note	Posi-tion	Modified from	Date	Intr./Appd.	Parent 3D Model	Ed.Version 3D
1			2/18/2022	INEARD		

Name	Service diagram - VDR2600-5050			Secrecy Class	
Material				1102 K/ Confidential	
Treatment				ACD	
nano COMPRESSED AIR DRYER VDR	Scale 1:1	Family	A3	Compare	Drawing owner AIF
	Drawn by	Blank nr.		Replaces	
STATUS	Version Drwg 1	Blank wt. Kg	Fini wt. Kg	Designation	Sheet 01 (18)
RELEASED	Des checked.	Prod checked.	Approved.	Date 12/13/2021	1839007645-01

CUSTOMER'S INSTALLATION

MAIN POWER SUPPLY

VOLTAGE :	_____ V
FREQ :	_____ Hz 3 PH

MAX. FUSE

IEC: CLASS GL/GG type "2"	UL: CLASS K5/RK5
_____ A	_____ 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	☐	2 FANS (AIR COOLED)	1900511301 / 1900511302
2	☐	4 FANS (AIR COOLED)	1900511303/ 1900511304

DRYER

M1
____kW
____HP

Q1	Q2
____ A	____ A

Q5	F6	F7
____ A	____ A	____ A

Q10	F11
____ A	____ A

CONDENSOR FAN MOTORS

1 2

M21	M22
____kW	____kW
____HP	____HP

F20
____ A

CONDENSOR FAN MOTORS

2

M23	M24
____kW	____kW
____HP	____HP

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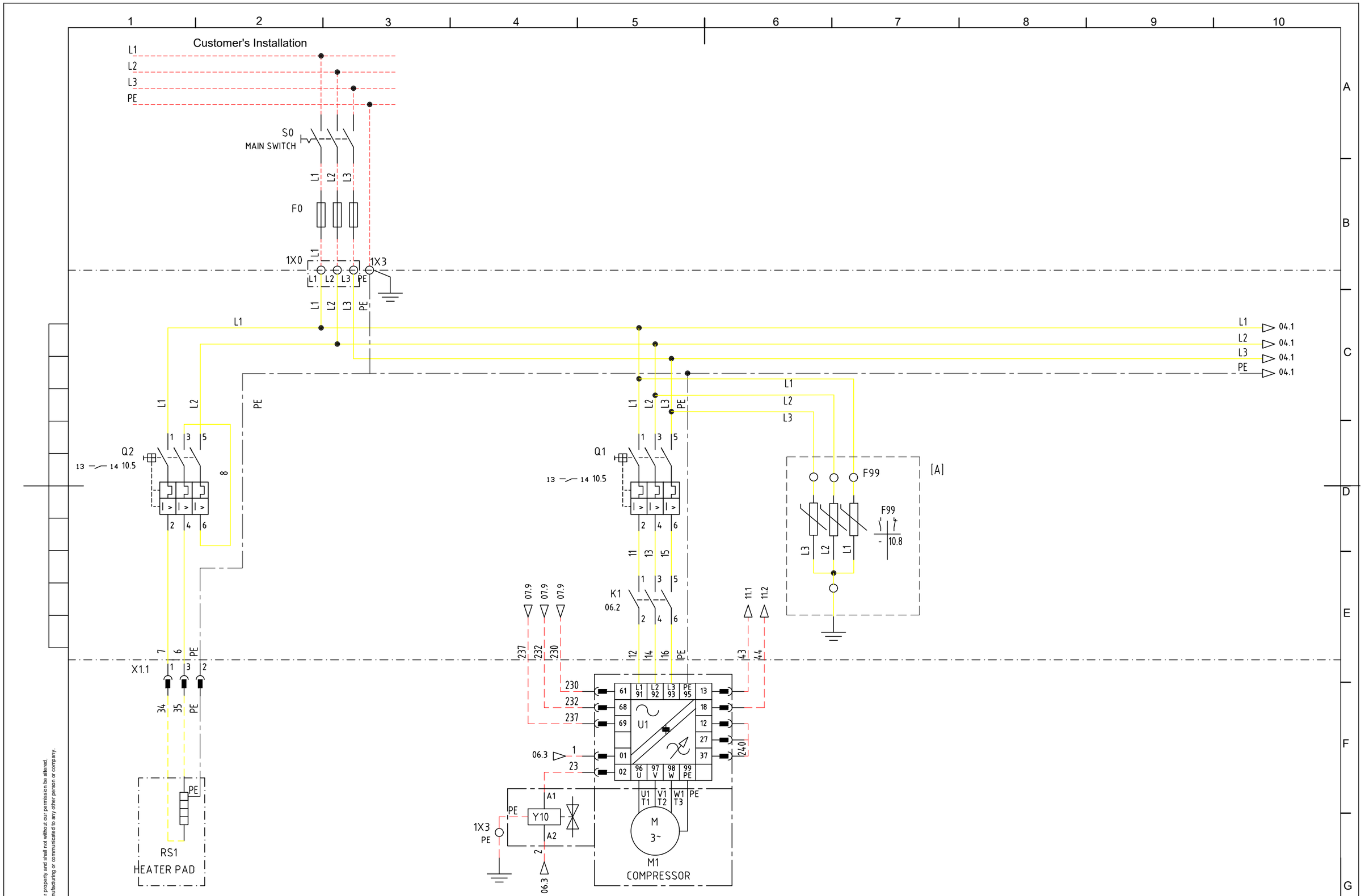
nano COMPRESSED AIR DRYER VDR	ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 01	Next Page 03	A3
	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021	Designation 1839007645-01 Sheet 02 (18)



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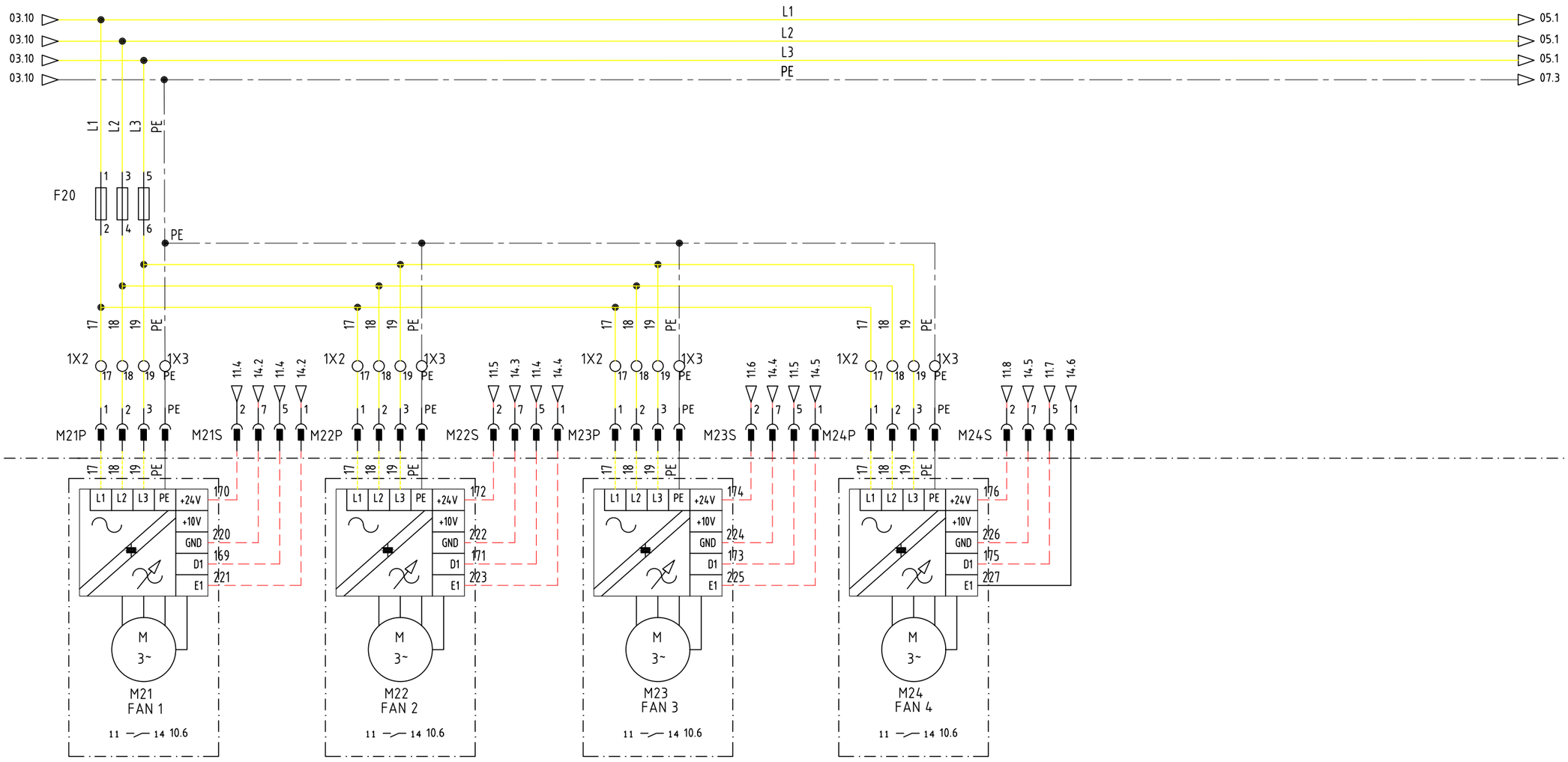
nano COMPRESSED AIR DRYER VDR	ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 02	Next Page 04	A3
	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021	Designation 1839007645-01 Sheet 03 (18)

CONDENSER FAN MOTORS

1 2

CONDENSER FAN MOTORS

2



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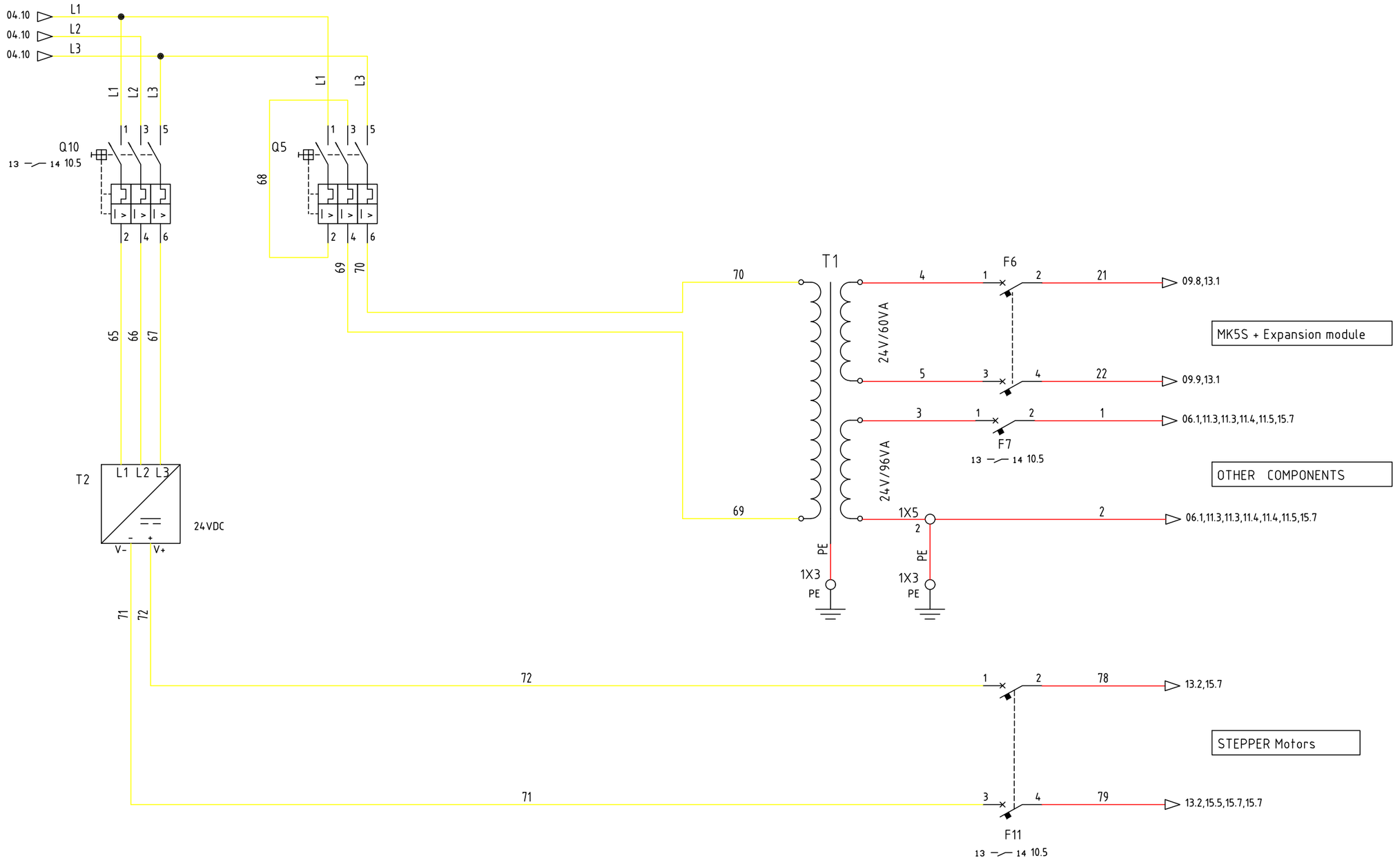
Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		Sheet 04 (18)
									1839007645-01



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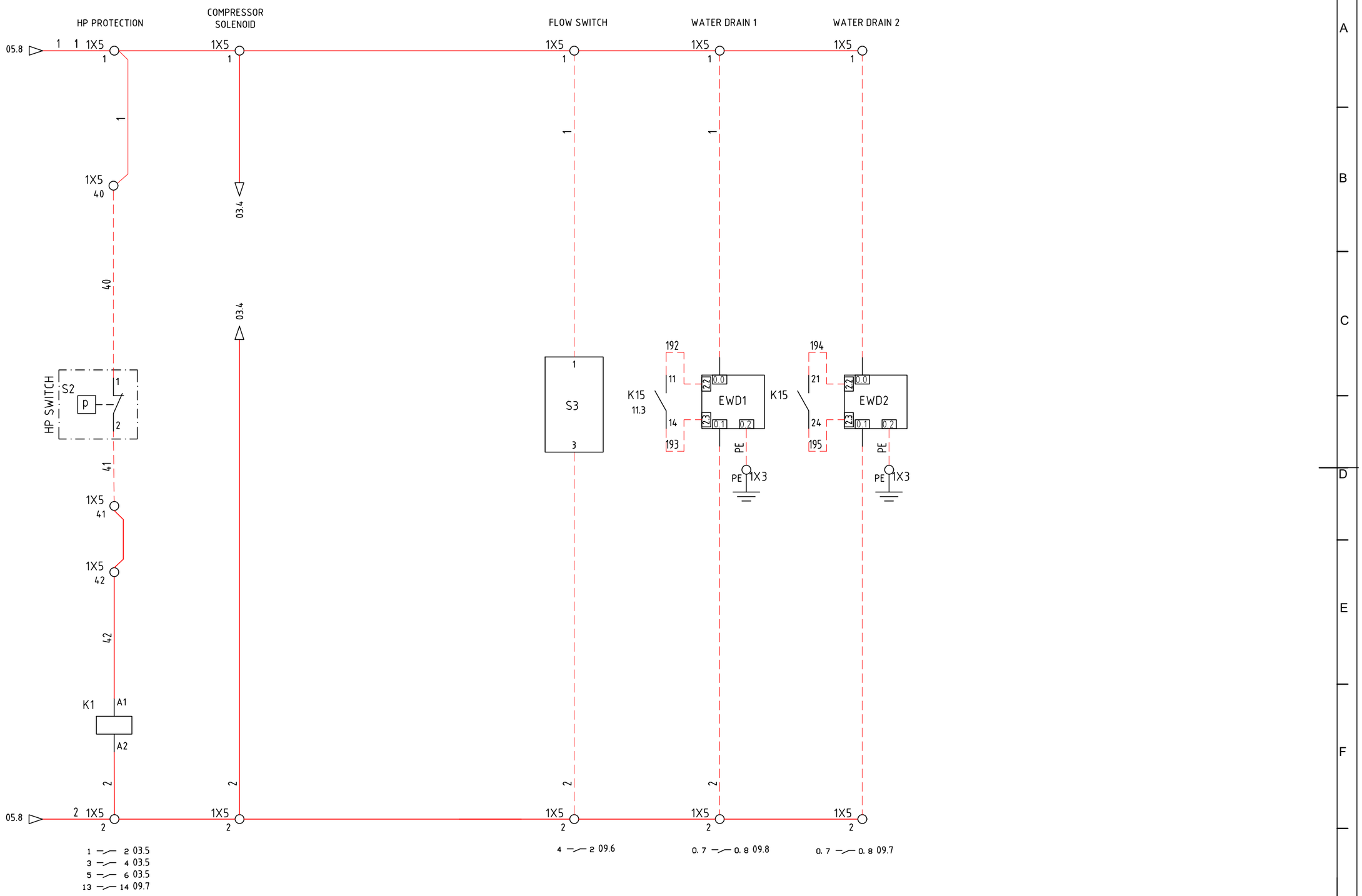
nano COMPRESSED AIR DRYER VDR	ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 04	Next Page 06	A3	Designation
	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		1839007645-01

Sheet 05 (18)



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nano COMPRESSED AIR DRYER VDR	ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 05	Next Page 07	A3
	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021	

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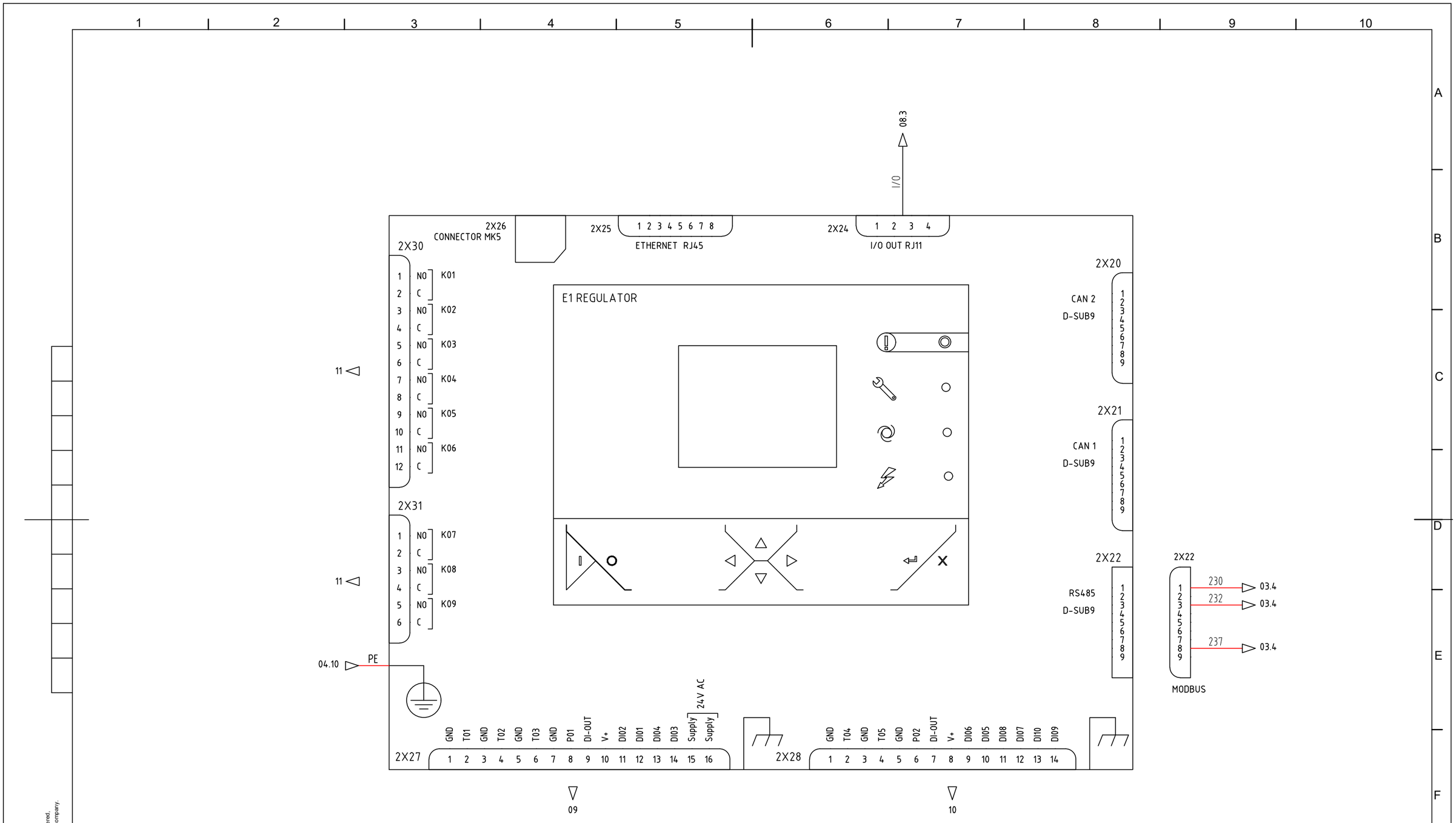
Sheet 06 (18)



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	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021	

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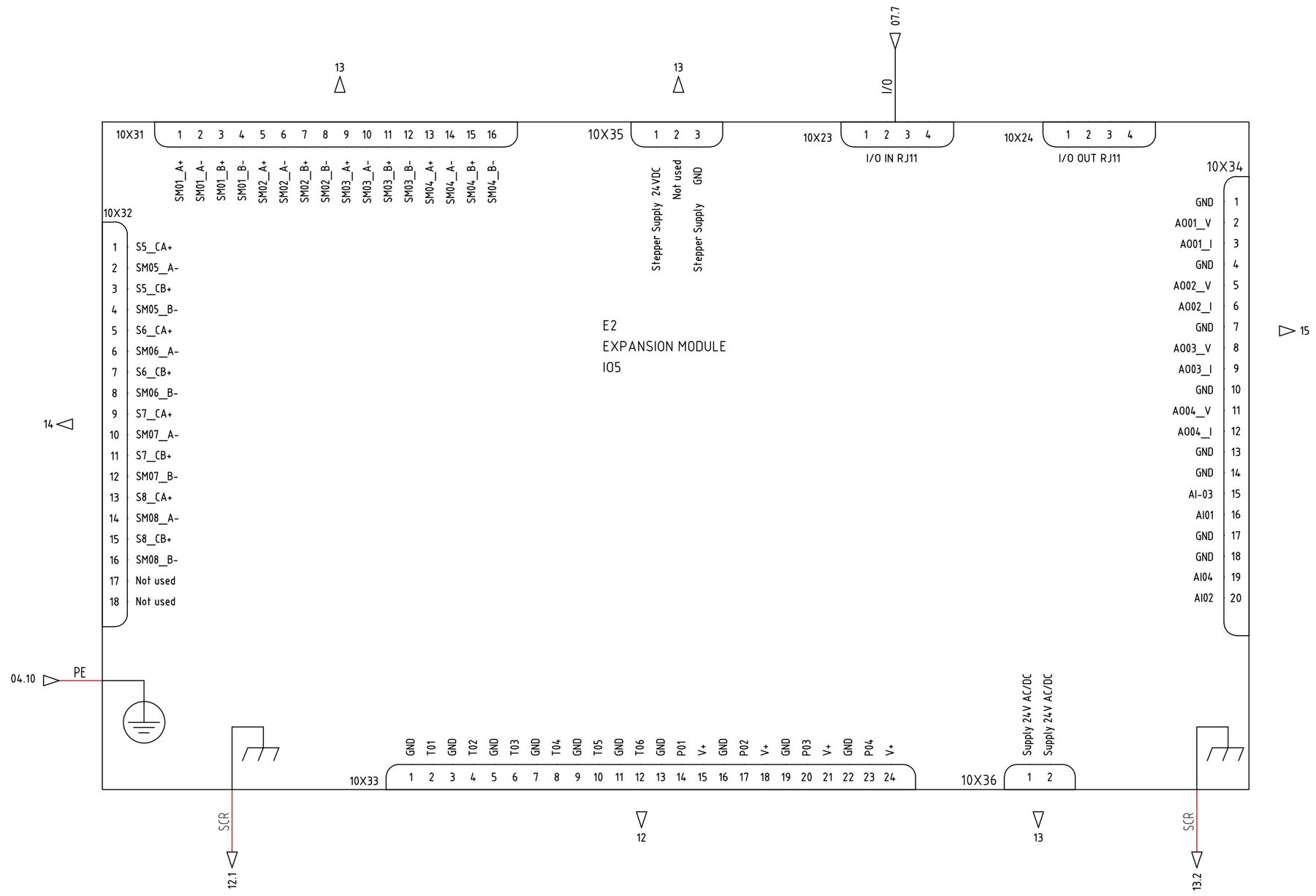
Sheet 07 (18)



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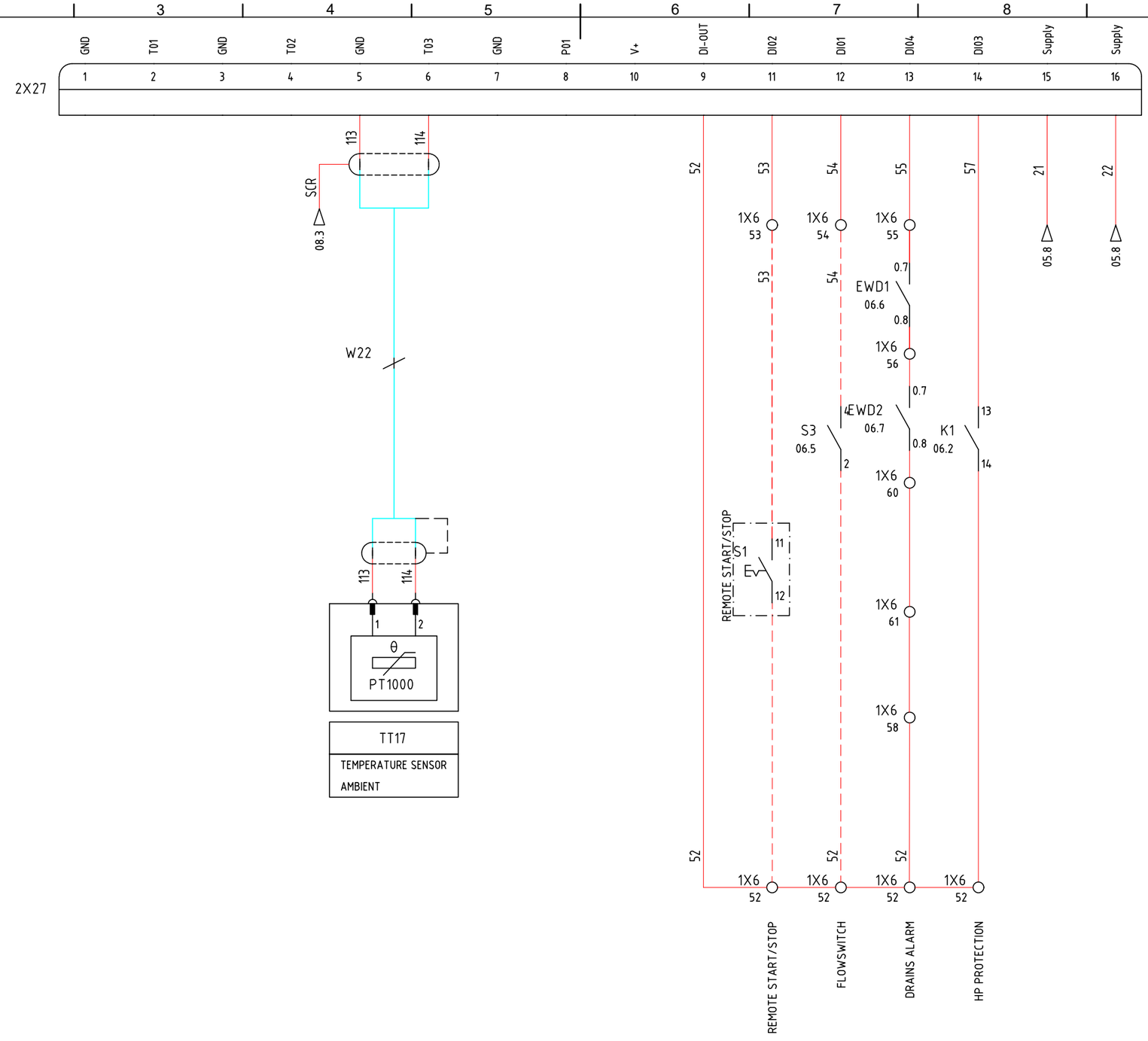
nano COMPRESSED AIR DRYER VDR	ACD Drawing owner AIF	Name Service diagram - VDR2600-5050	STATUS RELEASED	Ed. 1	Date 2/18/2022	Prev. Page 07 Drawn by	Next Page 09 Date 12/13/2021	A3	Designation 1839007645-01 Sheet 08 (18)



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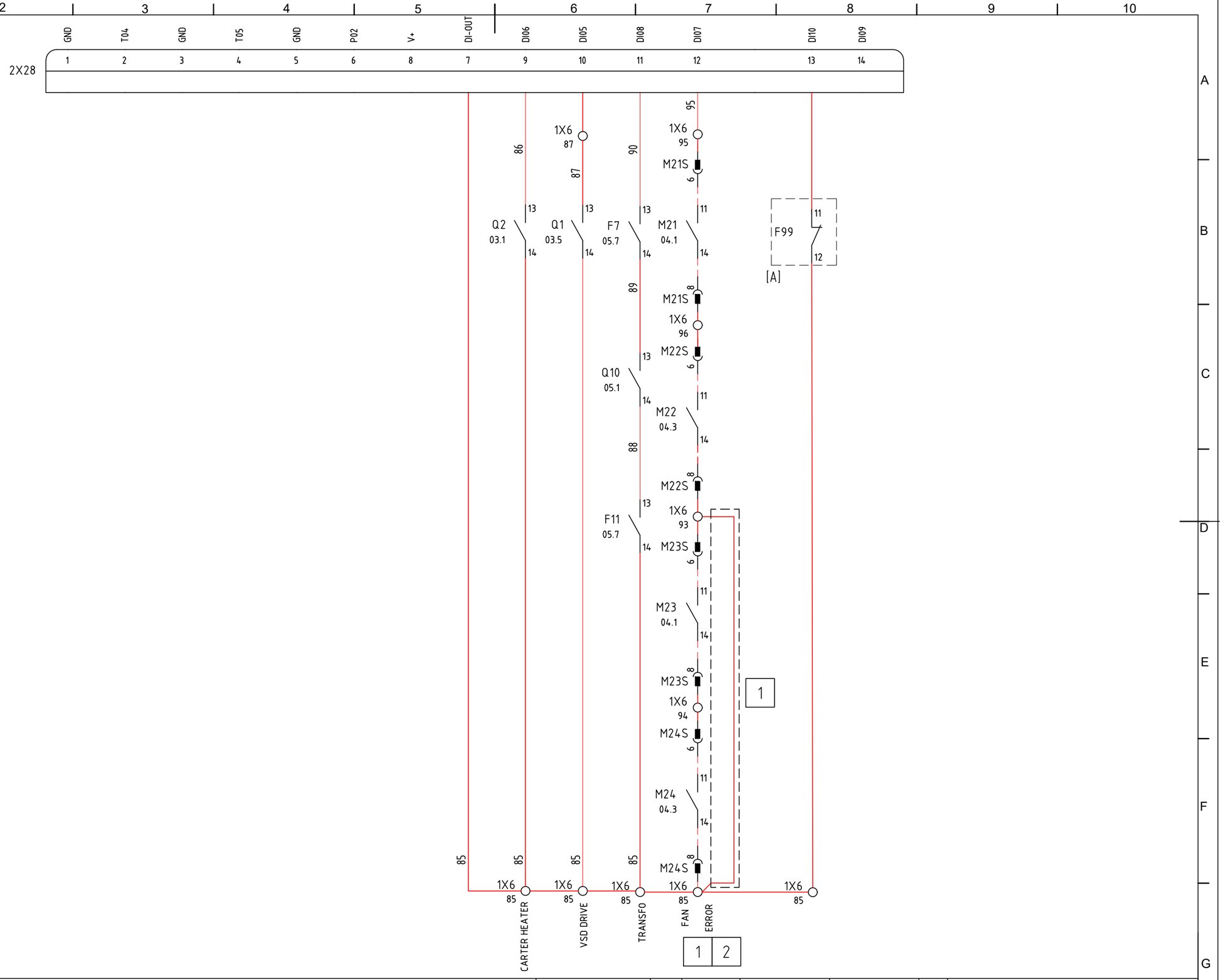
nano COMPRESSED AIR DRYER VDR	ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 08	Next Page 10	A3
	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021	Designation 1839007645-01 Sheet 09 (18)



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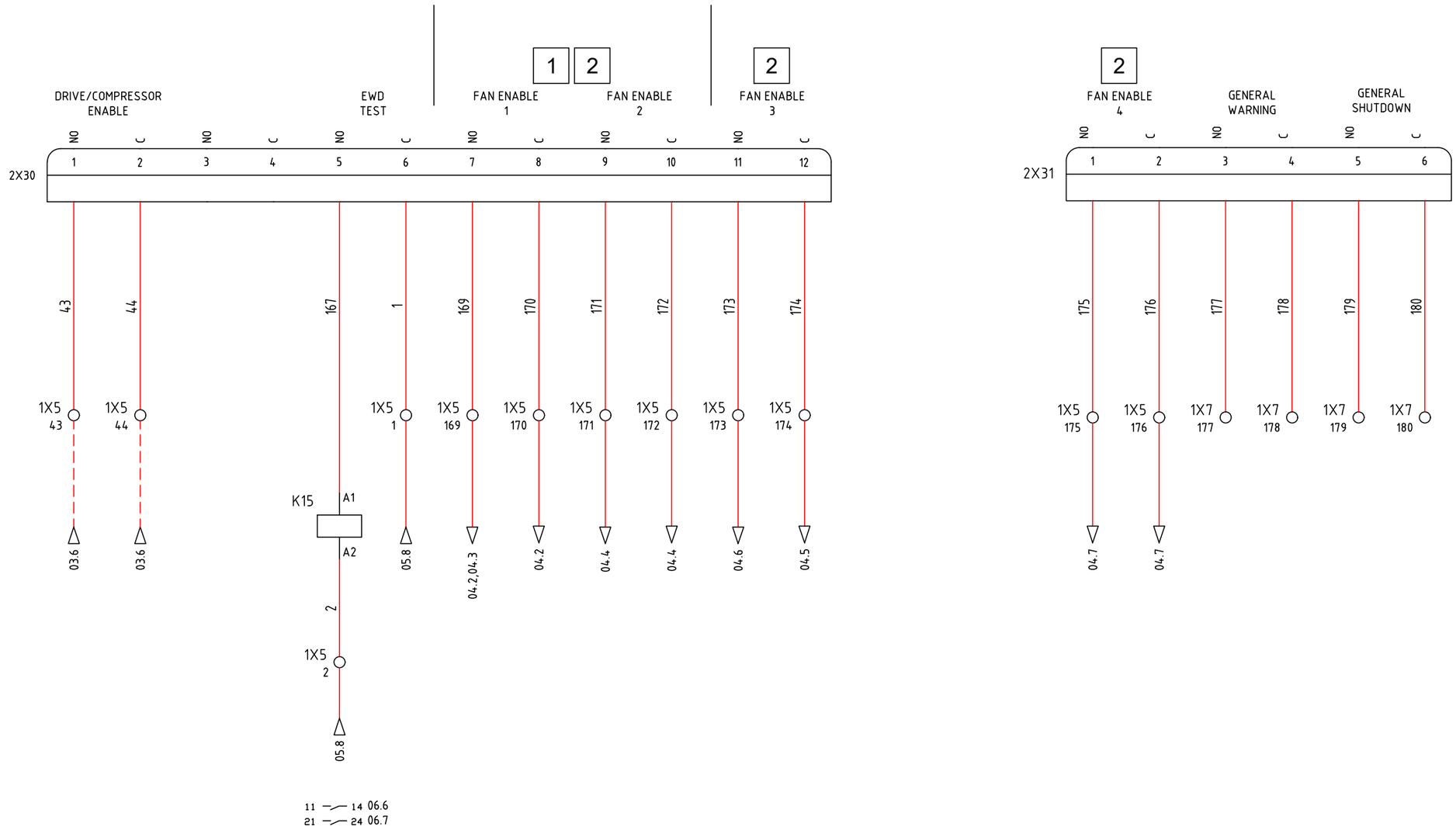
nano COMPRESSED AIR DRYER VDR	ACD	Name Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 09	Next Page 11	A3	Designation 1839007645-01
	Drawing owner AIF		RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		Sheet 10 (18)



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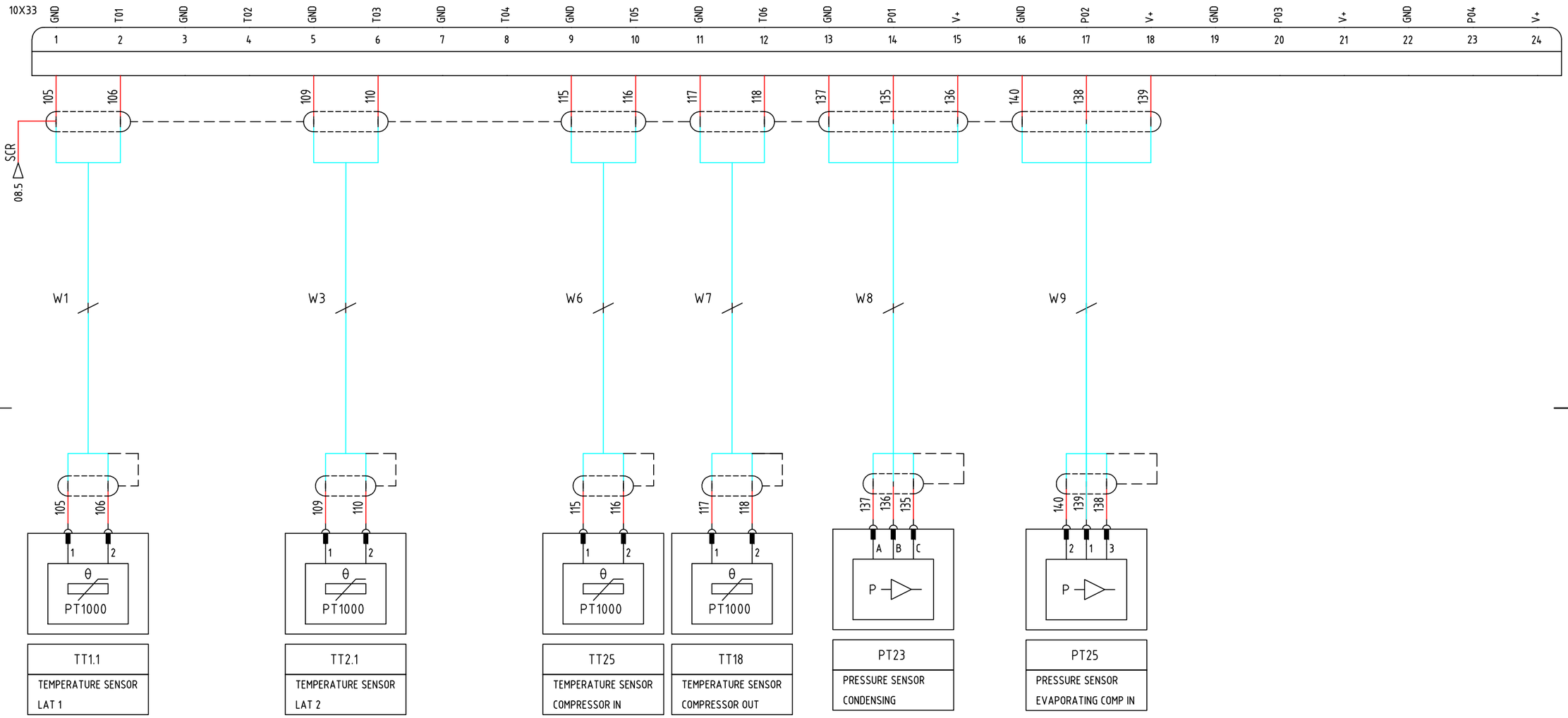
ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 10	Next Page 12	A3	Designation
Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		Sheet 11 (18) 1839007645-01



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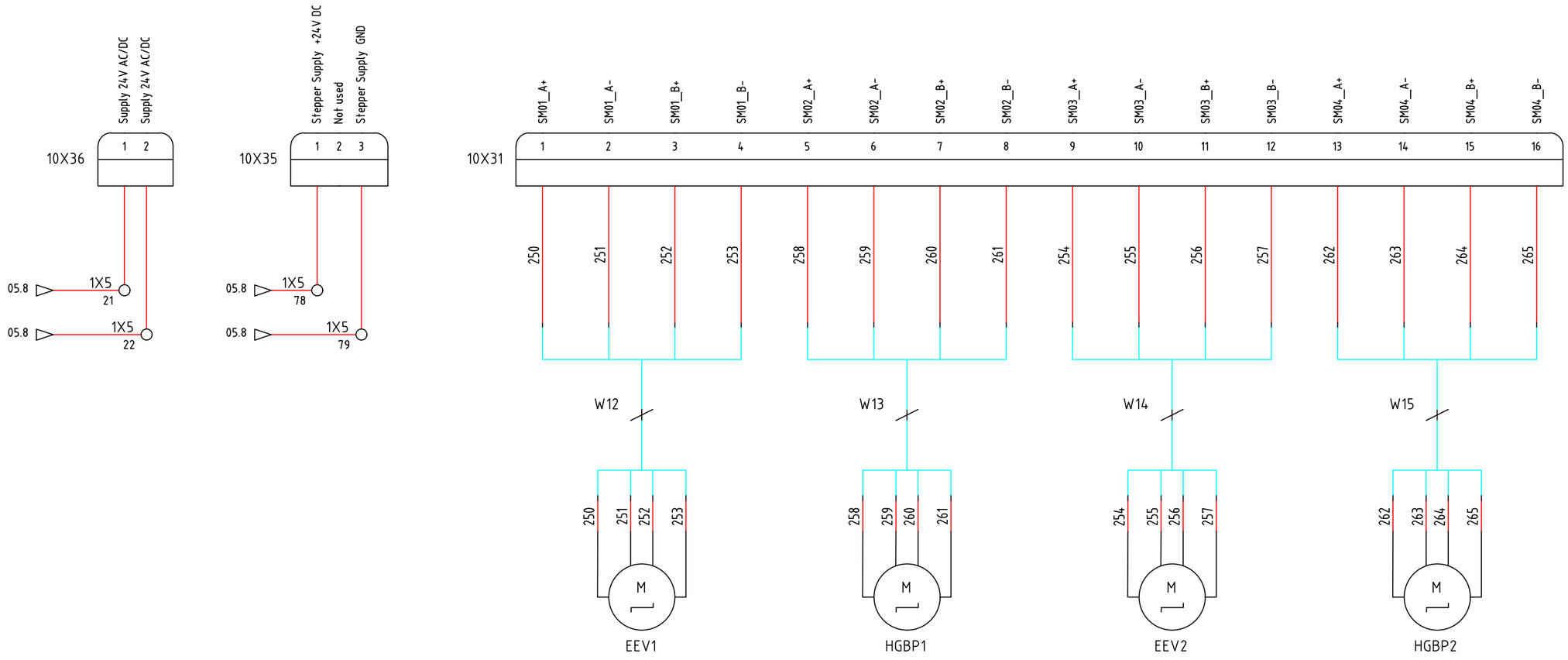
nano COMPRESSED AIR DRYER VDR	ACD Drawing owner AIF	Name Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 11	Next Page 13	A3	Designation	Sheet 12 (18)
			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		1839007645-01	



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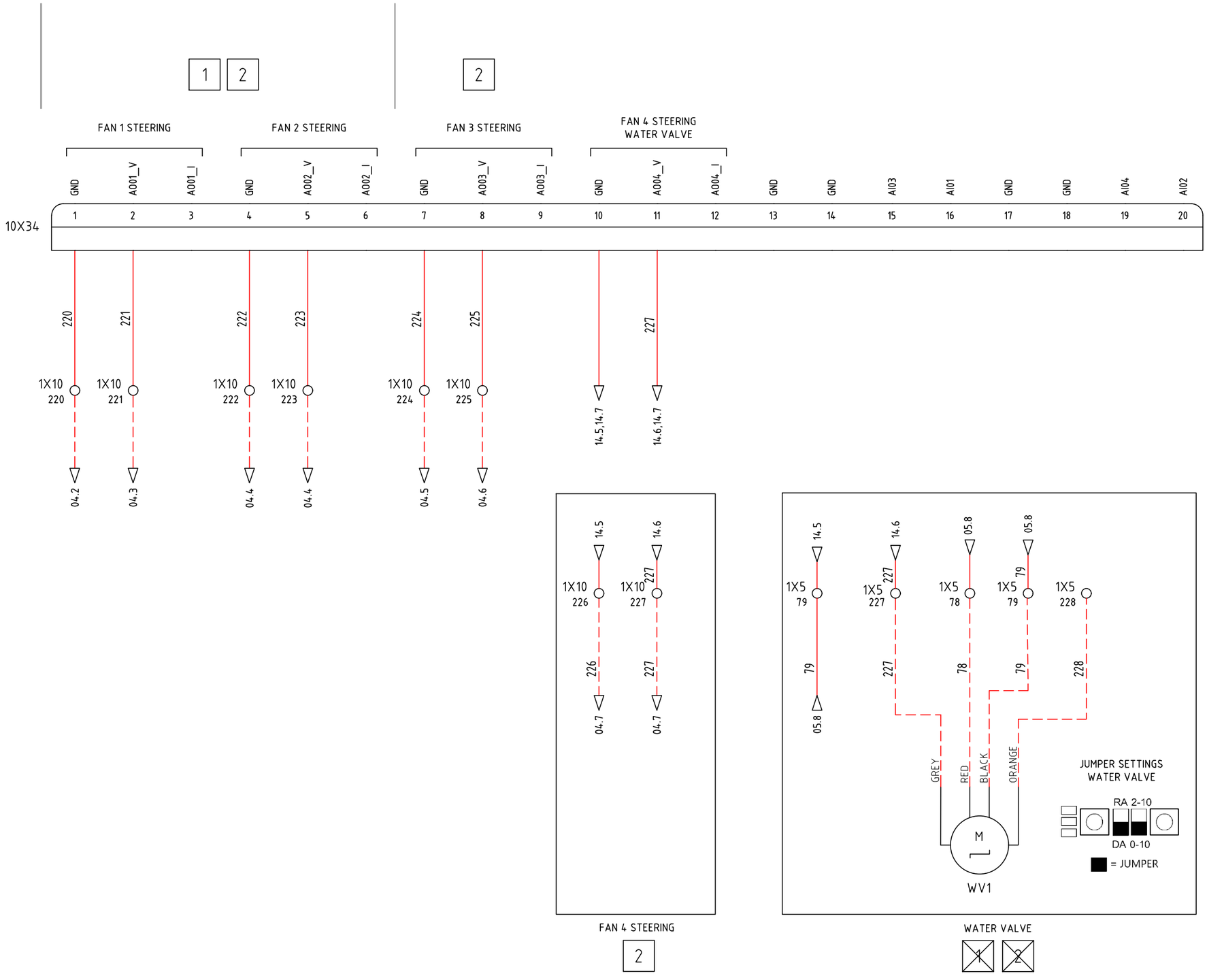
nano COMPRESSED AIR DRYER VDR	ACD	Name Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 12	Next Page 14	A3	Designation Sheet 13 (18)
	Drawing owner AIF		RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		1839007645-01



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ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 13	Next Page 15	A3	Designation
Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		Sheet 14 (18)
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LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
CANOPY	EEV1	13	STEPPER MOTOR	EEV1
CANOPY	EEV2	13	STEPPER MOTOR	EEV2
CANOPY	EWD1	06	ELECTRONIC WATER DRAIN	DRYER
CANOPY	EWD2	06	ELECTRONIC WATER DRAIN	DRYER
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	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	PT23	12	PRESSURE SENSOR	CONDENSING
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	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	14	STEPPER MOTOR	WATER VALVE 1
CANOPY	X1.1	03	CONNECTOR	HEATER PAD
CUBICLE	F99	03	SURGE SUPPRESOR	

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nano VDR	ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 14	Next Page 16	A3	Designation
	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		Sheet 15 (18) 1839007645-01

LEGEND				
LOCATION	TAGNAME	PAGE	DESCRIPTION	FUNCTION
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 IO5	I/O IN RJ11
CONTROL PANEL	10X24	08	CONNECTOR IO5	I/O OUT RJ11
CONTROL PANEL	10X31	13	CONNECTOR IO5	
CONTROL PANEL	10X33	12	CONNECTOR IO5	
CONTROL PANEL	10X34	14	CONNECTOR IO5	
CONTROL PANEL	10X35	13	CONNECTOR IO5	
CONTROL PANEL	10X36	13	CONNECTOR IO5	SUPPLY 24V AC/DC
CONTROL PANEL	E1	07	REGULATOR	
CONTROL PANEL	E2	08	EXPANSION MODULE	IO5
CONTROL PANEL	F6	05	CIRCUIT BREAKER	MK5/EXPANSION MODULE
CONTROL PANEL	F7	05	CIRCUIT BREAKER	OTHER COMPONENTS
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	K15	11	RELAIS	DRAIN TEST
CONTROL PANEL	Q1	03	CIRCUIT BREAKER	DRIVE
CONTROL PANEL	Q2	03	CIRCUIT BREAKER	HEATER
CONTROL PANEL	Q5	05	CIRQUIT 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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	Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		Sheet 16 (18)

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	18	04
1X2	18	04
1X2	18	04
1X2	18	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	05
1X3	PE	05
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	11
1X5	169	11
1X5	170	11
1X5	171	11
1X5	172	11
1X5	173	11
1X5	174	11
1X5	175	11
1X5	176	11
1X5	2	05

1X5	2	06
1X5	2	06
1X5	2	06
1X5	2	06
1X5	2	06
1X5	2	11
1X5	21	13
1X5	22	13
1X5	227	14
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1X5	40	06
1X5	41	06
1X5	42	06
1X5	43	11
1X5	44	11
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1X5	79	14
1X5	79	14
1X6	52	09
1X6	52	09
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1X6	54	09
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1X6	56	09
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1X6	87	10
1X6	93	10
1X6	94	10
1X6	95	10
1X6	96	10
1X7	177	11

1X7	178	11
1X7	179	11
1X7	180	11
1X10	220	14
1X10	221	14
1X10	222	14
1X10	223	14
1X10	224	14
1X10	225	14
1X10	226	14
1X10	227	14

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nano COMPRESSED AIR DRYER VDR	ACD Drawing owner AIF	Name Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 16	Next Page 18	A3	Designation	Sheet 17 (18)
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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

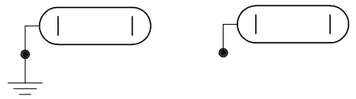
[A] Only for CSA/UL variant

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)

Type of glands:

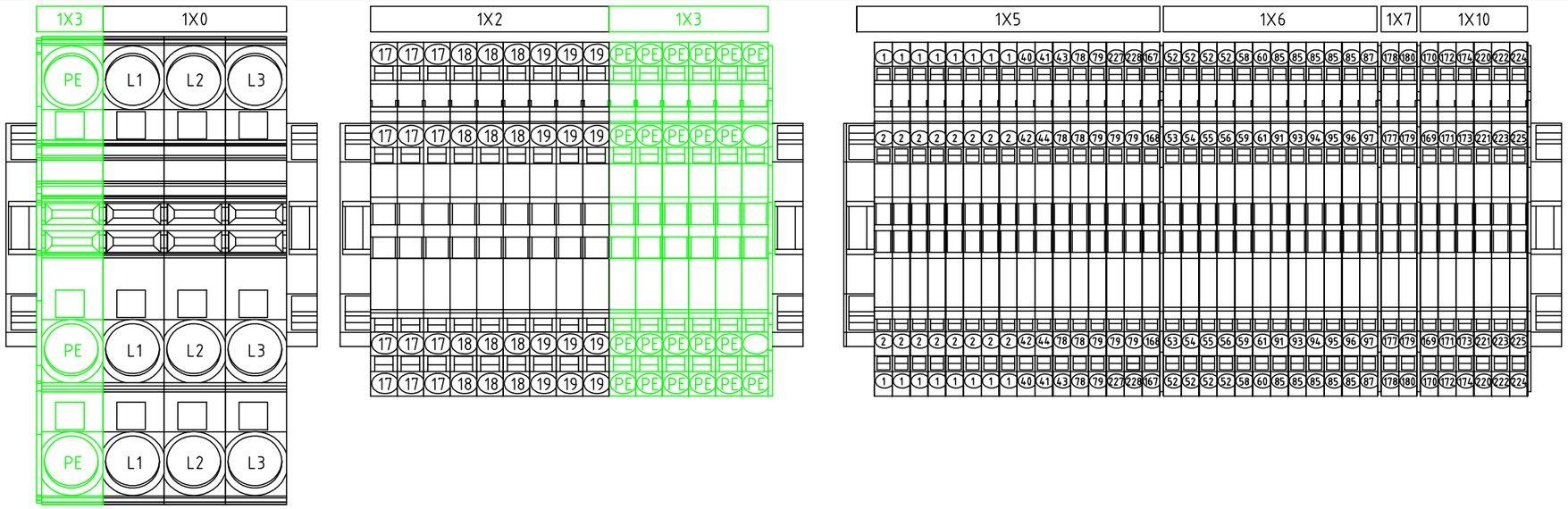
EMC-cable gland | Cable gland



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

PT25	PT23	M21S-M22S-M23S-M24S	M21P-M22P-M23P-M24P	EEV1/2-HGBP1/2	TT1.1-TT1.2-TT25	S3	S2
1 : +V SUPPLY 2 : -V SUPPLY 3 : OUTPUT 4 : COM	C : SIGNAL B : V+ A : GND	1 : E1 2 : +24Vdc 3 : nc 4 : +10V 5 : D1 6 : K1 (11) 7 : GND 8 : K1 (14)	1 : L1 2 : L2 3 : L3 PE : PE	FIXED	1 : GND 2 : SIGNAL	1 : 24V 2 : NO 3 : GND 4 : COM	1 : NC 2 : COM

Elektronikon buttons

- Start Button
- Programmed Stop Button

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ACD	Name	Service diagram - VDR2600-5050	STATUS	Ed.	Date	Prev. Page 17	Next Page	A3	Designation
Drawing owner AIF			RELEASED	1	2/18/2022	Drawn by	Date 12/13/2021		1839007645-01