



Connect Control Systems Manufacturing.

Unit 3, Sunnybank Business centre
 Bray, Co. Wicklow
 Y35 A8DH
 Phone. +353 (0)1 282 9844

Company / customer	Piper Systems Ltd.
Project description	FLOSTREAM SYSTEM SCHEMATICS
Job number	

Manufacturer (company)	Connect Control Systems Manufacturing.
Path	CC Systems Master
Project name	FLOSTREAM SYSTEM

Number of pages 38

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Revision		Project name	FLOSTREAM SYSTEM	Job number	Connect Control Systems Manufacturing. Unit 3, Sunnybank Business centre Bray, Co. Wicklow, Ireland. +353 (0)1 282 9844		THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF PIPER SYSTEMS LTD. IT MAY NOT BE RE-PRODUCED IN WHOLE OR PART OR USED FOR MANUFACTURING PURPOSES WITHOUT PRIOR CONSENT FROM PIPER SYSTEMS LTD.	Title page / cover sheet LOCATION	Drawing Number 1 Page 1 from 38
Date	13.06.2025								
By	CCsystems	Project Desc.	FLOSTREAM SYSTEM SCHEMATICS						

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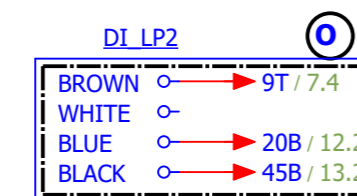
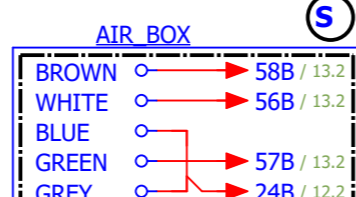
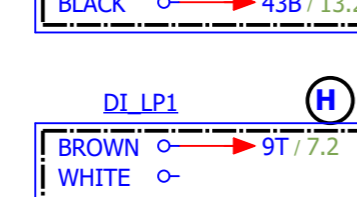
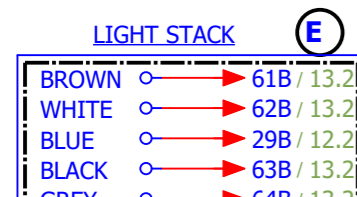
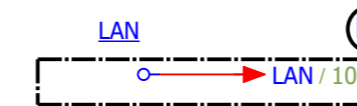
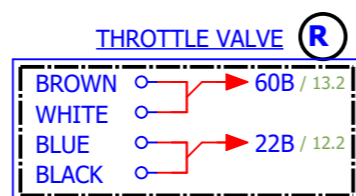
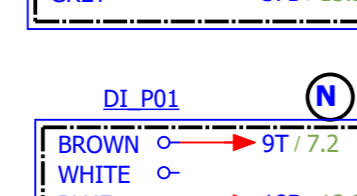
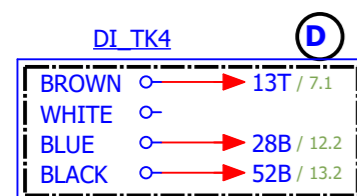
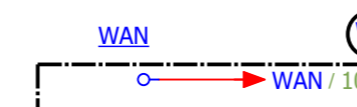
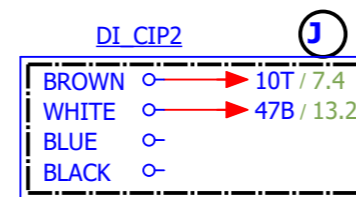
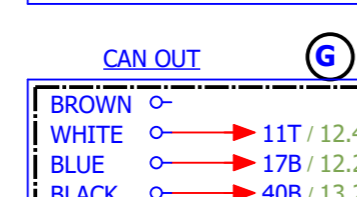
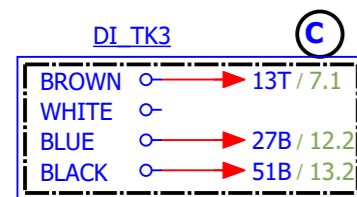
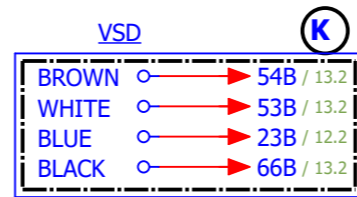
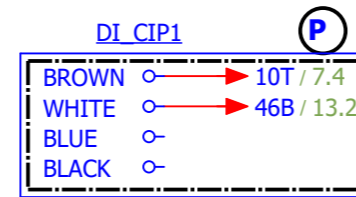
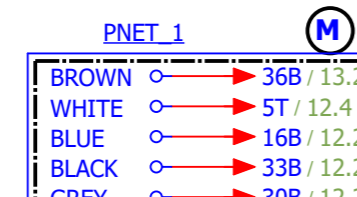
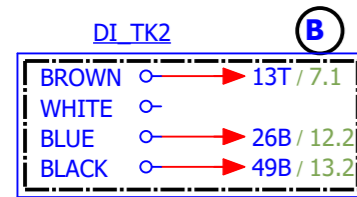
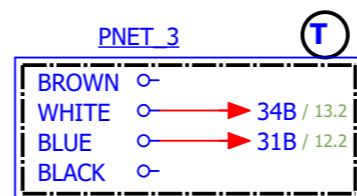
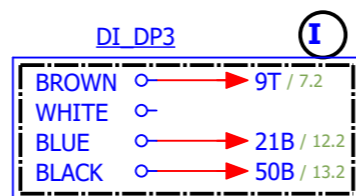
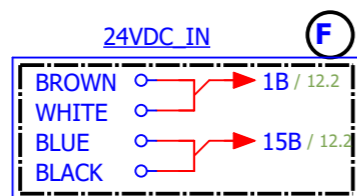
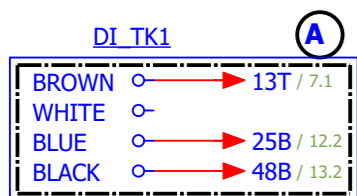
?????

ITEM	DESCRIPTION	BOM REFERENCE
1	TS7 DATA BOX	BOMTS7501-1
2	POWER BOX	BOMPOW400
3	SINGLE SAMPLE BOX	PARSAM116
4	DELIVERY BOX	BOMMET200
5	RELAY INTERFACE BOX	BOMPRO100
6	FLOWMETER	????

REVISION SCHEDULE

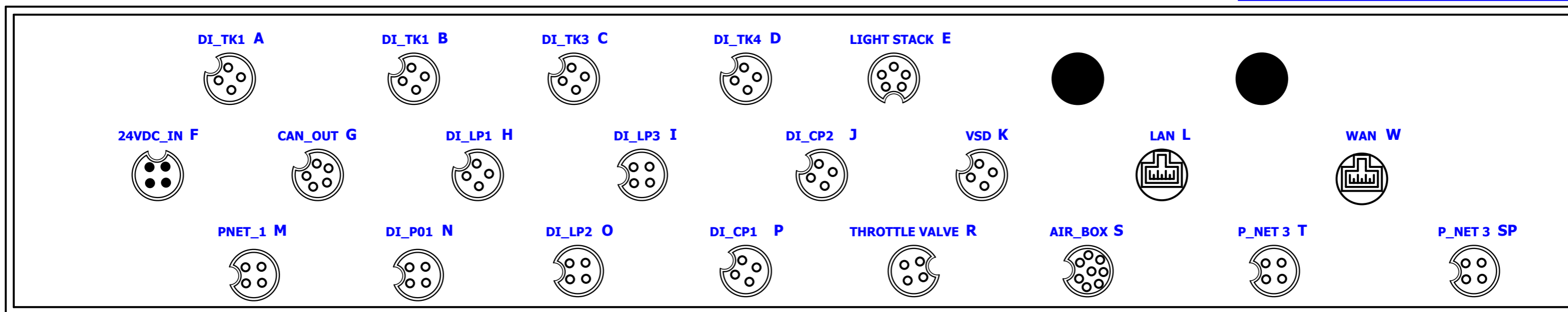
NUMBER.	REVISION	DATE	COMMENT
1.	REV A00	30/03/2022	FOR APPROVAL
2.	REV A01	10/06/2025	FOR APPROVAL

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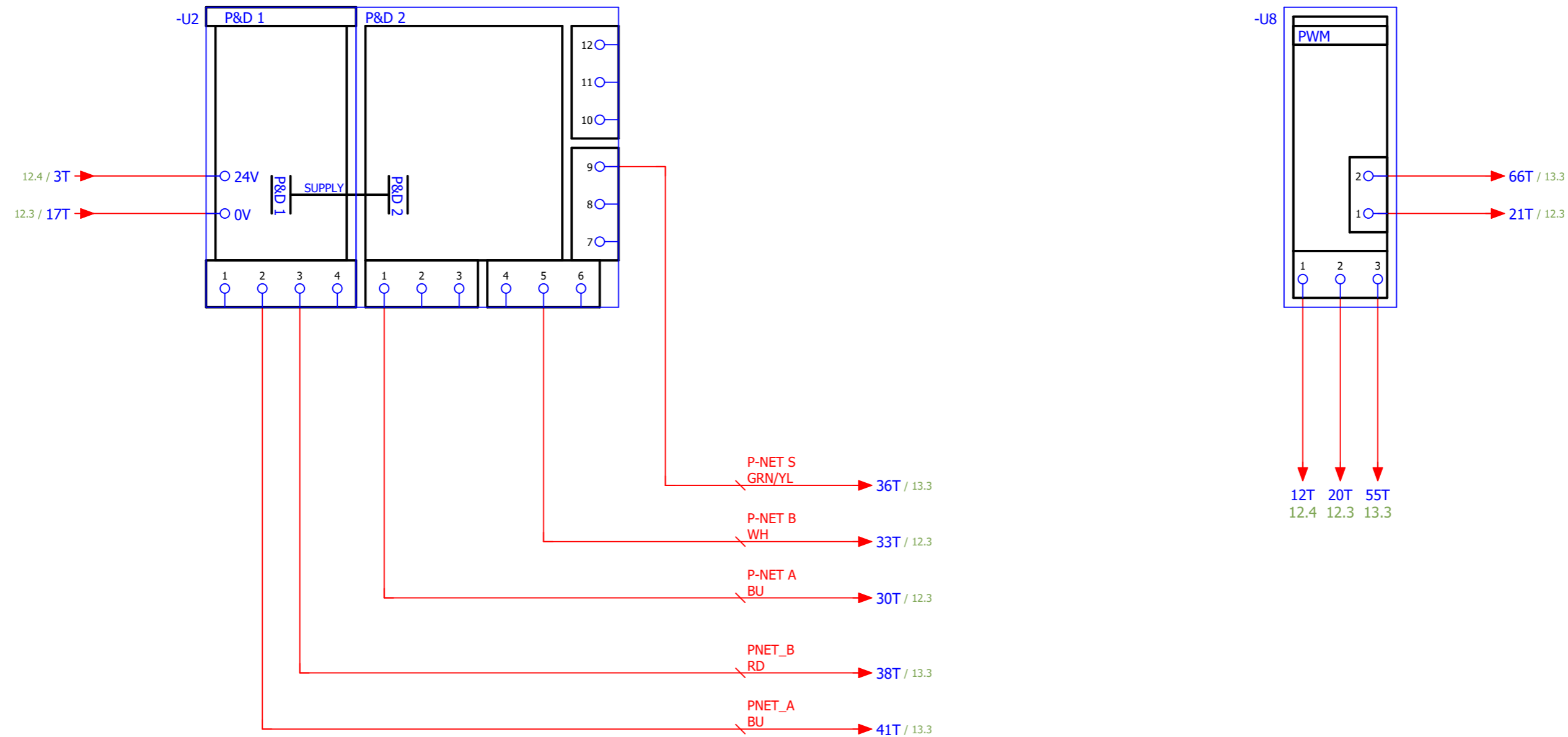
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A	4 pin female bulkhead	1693788
B	4 pin female bulkhead	1693788
C	4 pin female bulkhead	1693788
D	4 pin female bulkhead	1693788
E	5 pin female bulkhead	1671098
F	4 pin male bulkhead	1693762
G	5 pin female bulkhead	1671098
H	4 pin female bulkhead	1693788
W	RJ45 female socket	7980701
I	4 pin female bulkhead	1693788
J	4 pin female bulkhead	1693788
K	4 pin female bulkhead	1693788
L	RJ45 female socket	7980701
M	5 pin female bulkhead	1671098
N	4 pin female bulkhead	1693788
O	4 pin female bulkhead	1693788
P	4 pin female bulkhead	1693788
R	4 pin female bulkhead	1693788
S	8 pin female bulkhead	1513758
T	4 pin female bulkhead	1693788

BULKHEAD PLACEMENT DIAGRAM

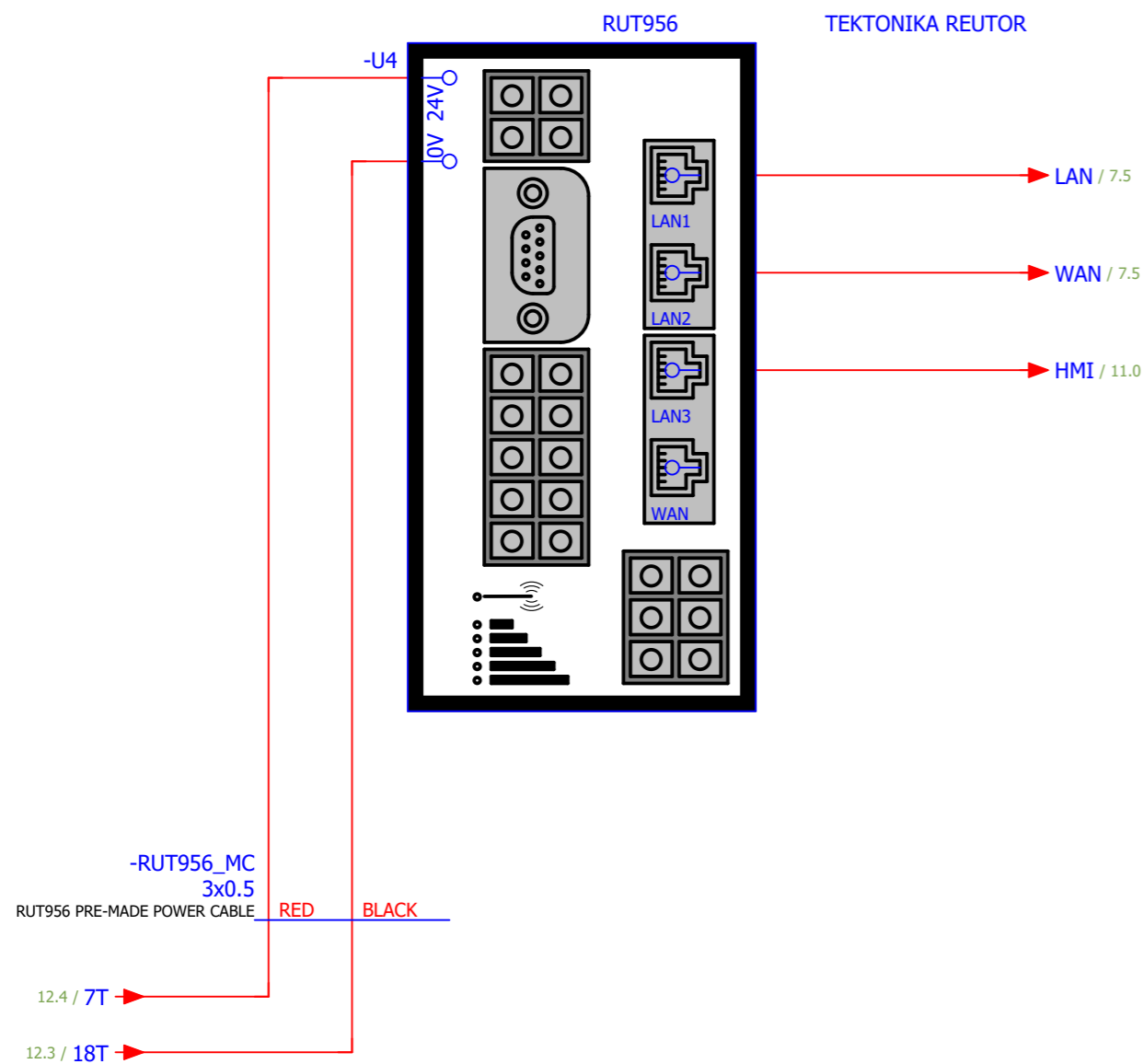


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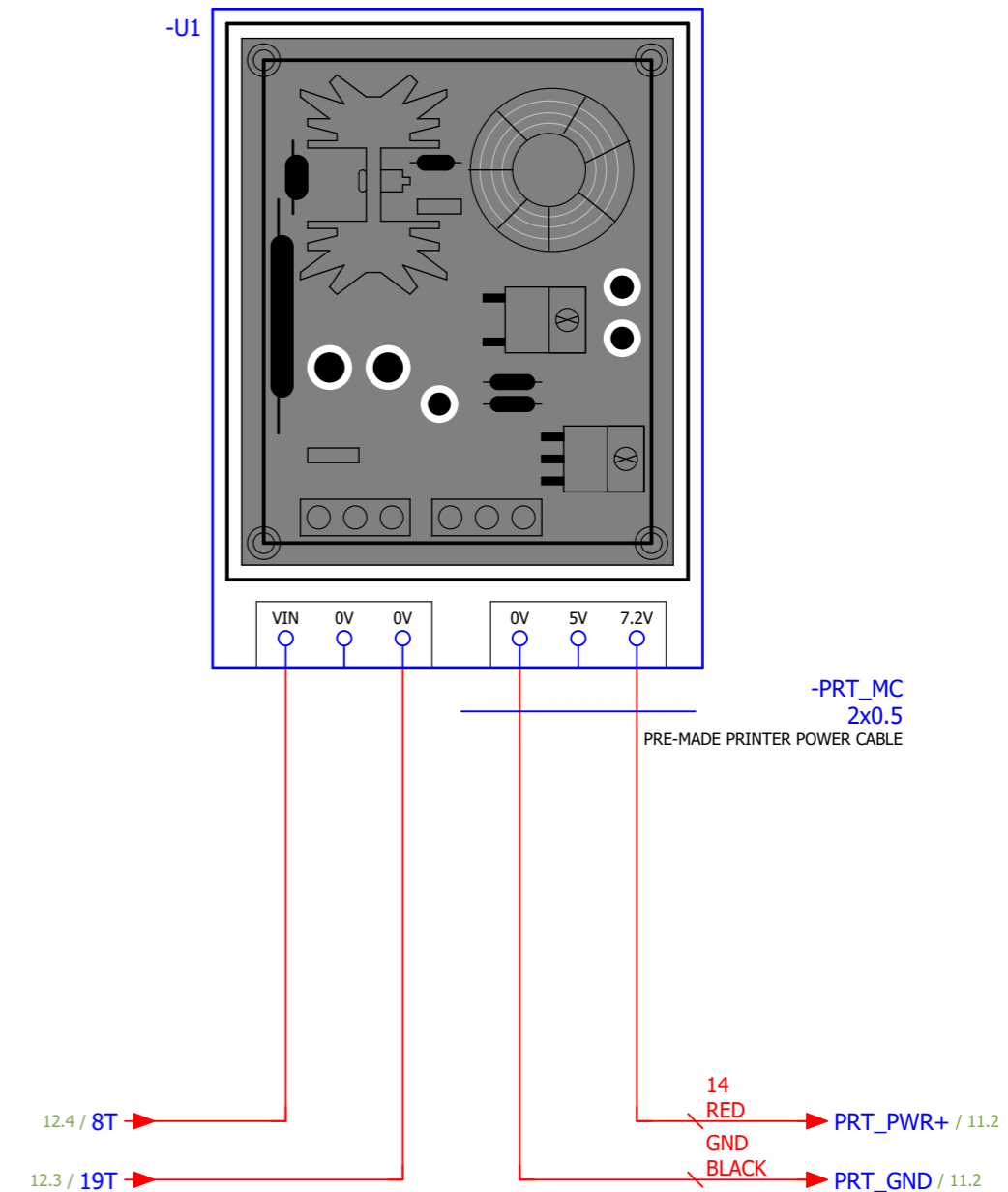
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U2 - P&D 1	P&D CONTROL UNIT	BM20
U2 - P&D 2	P&D CONTROL UNIT	BM10
U8	PWM	PARELE011



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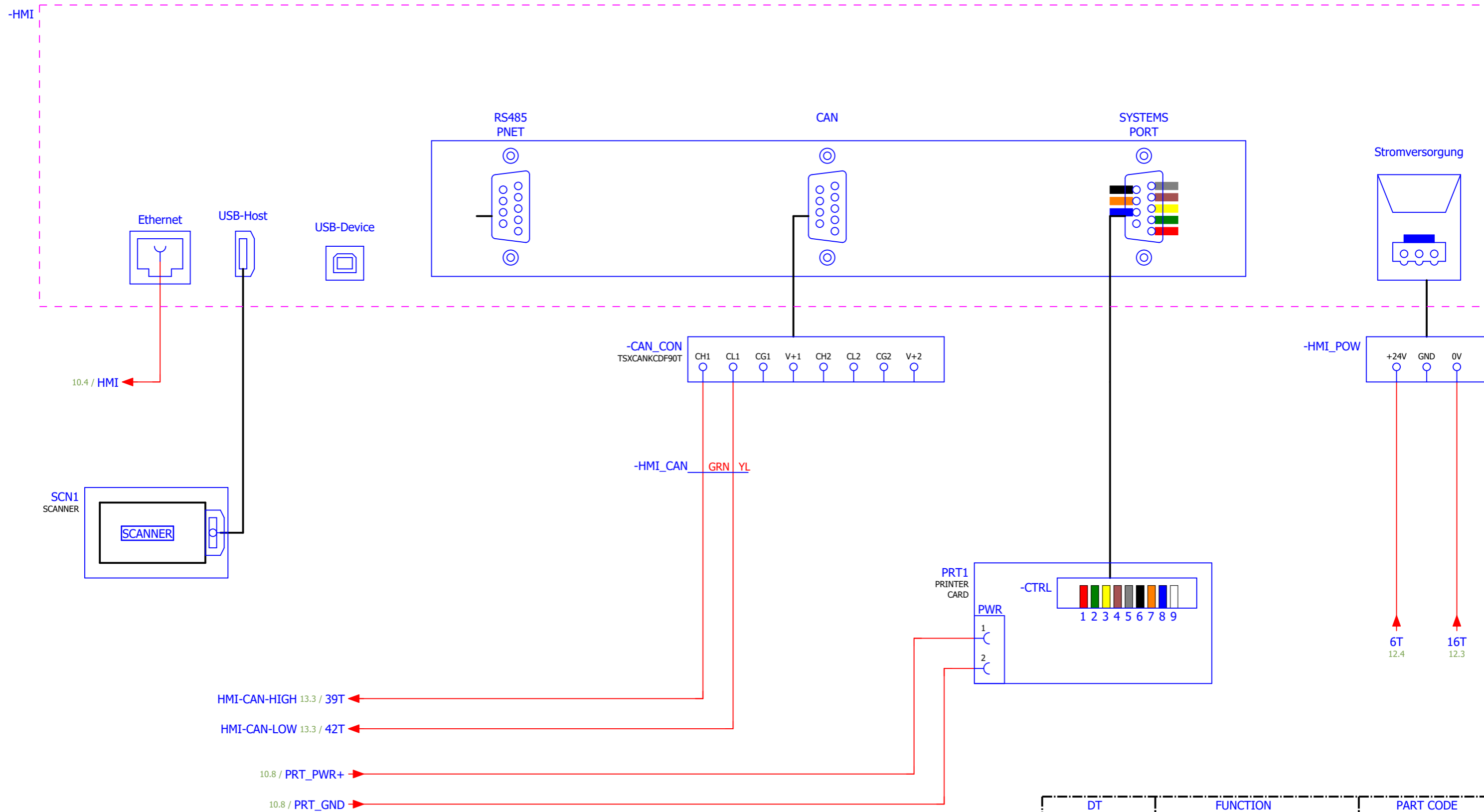


DT	FUNCTION	PART CODE
U4	TEKTONIKA REUTOR	RUT956



DT	FUNCTION	PART CODE
U1	DC/DC INVERTOR CARD	PARELE 012

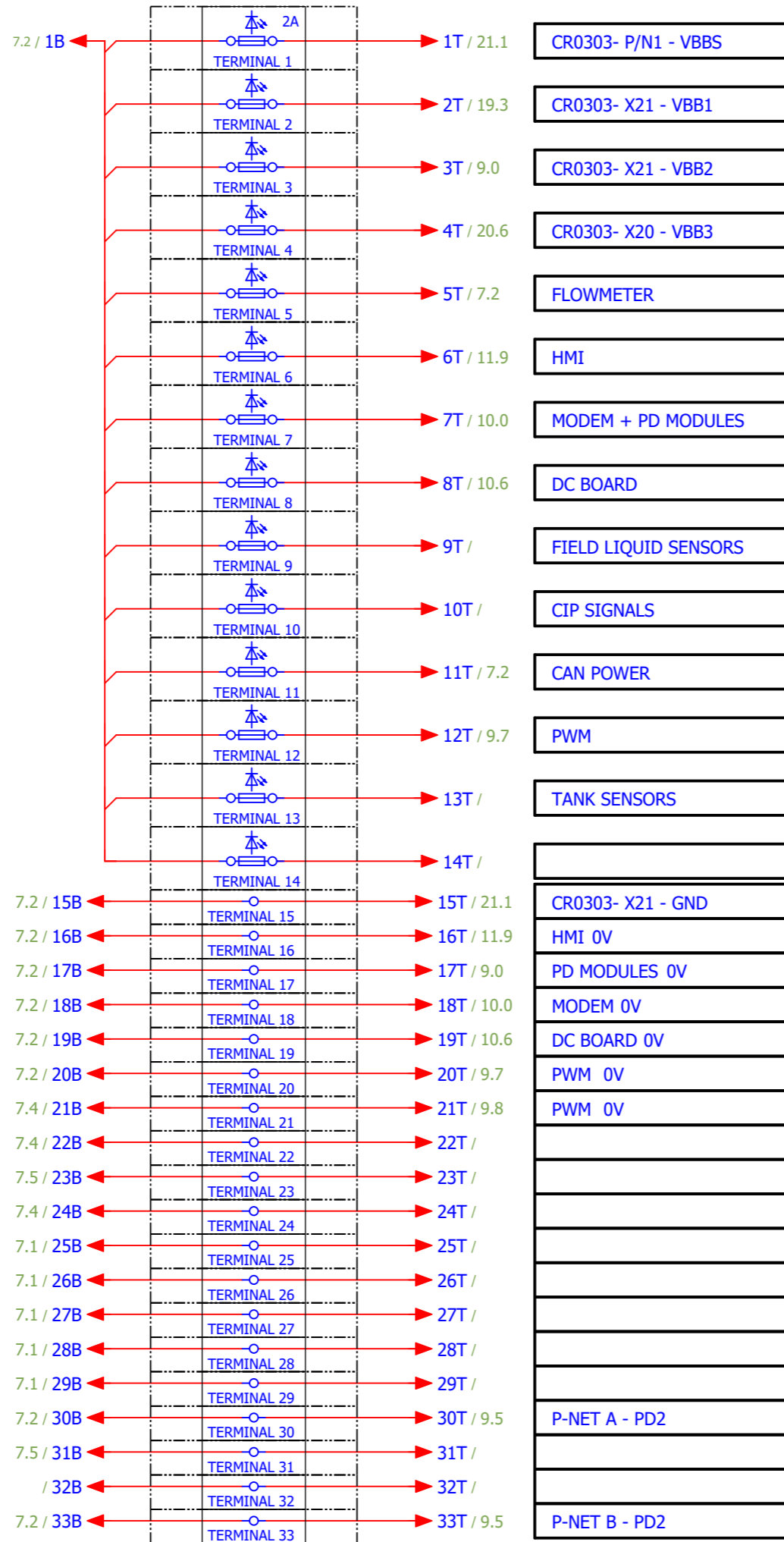
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DT	FUNCTION	PART CODE
HMI	HMI SCREEN	142538
SCN1	SCANNER CARD	PARELE 13
PRT1	PRINTER CARD	PARELE 14
CAN_CON	CONNECTOR	TSXCANKCDF90T
PRINTER_CON	CONNECTOR	SUB D 9 PIN

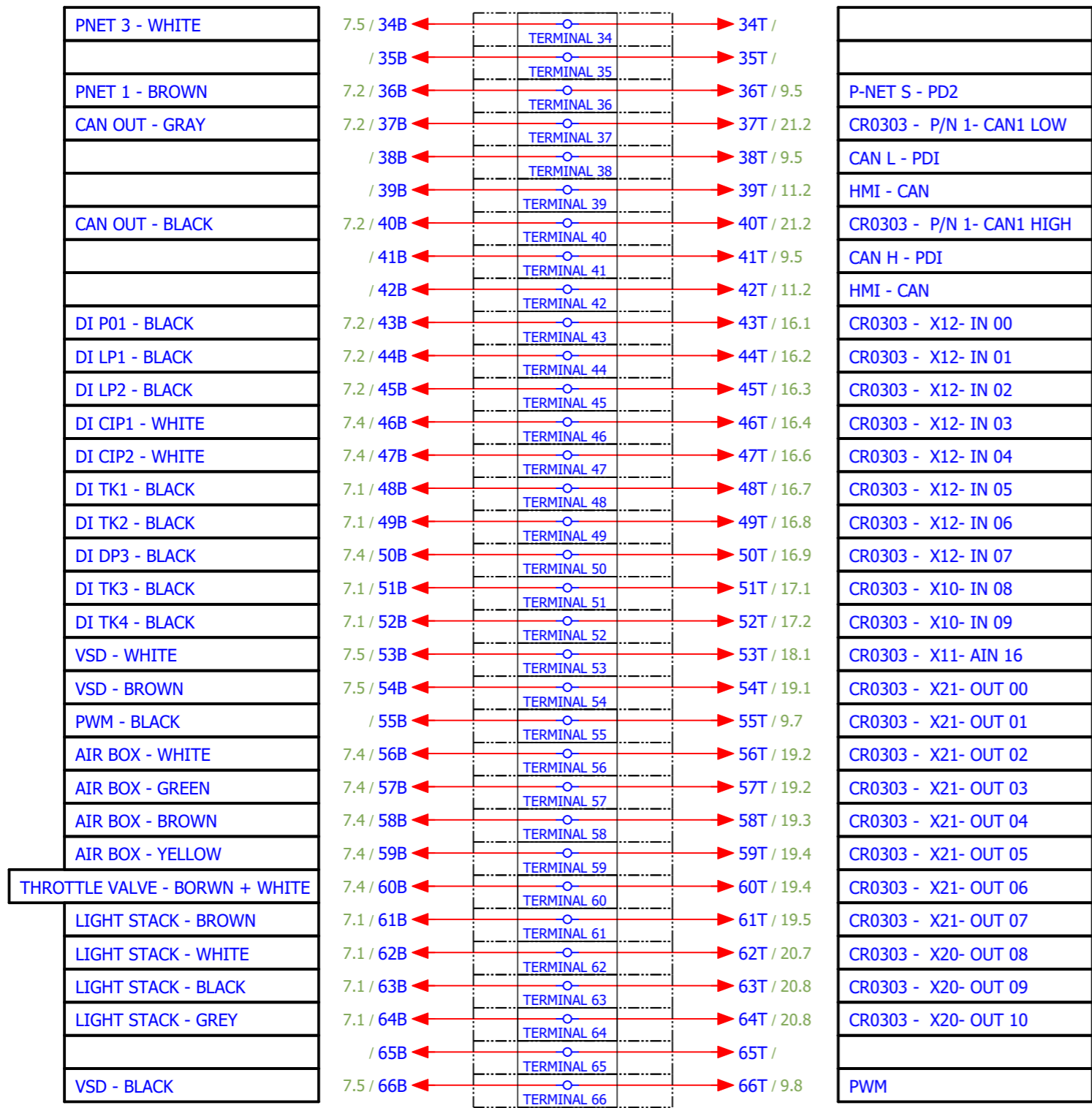
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MAIN +24VDC

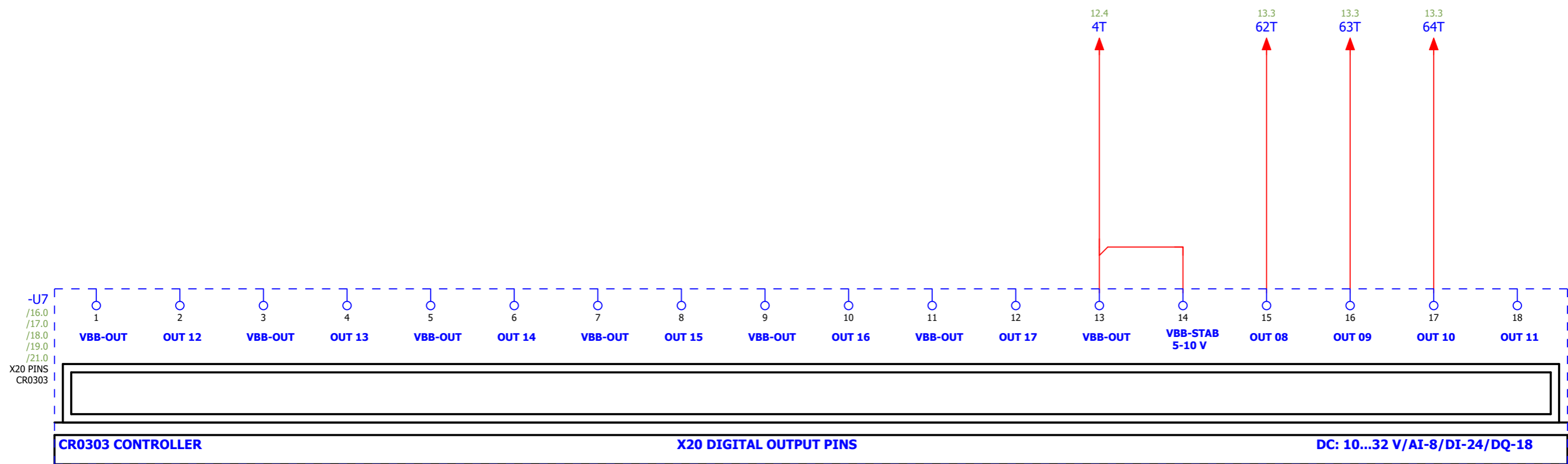


MAIN 0VDC IN
PNET 1 - BLUE
CAN OUT - BLUE
DI P01 - BLUE
DI LP1 - BLUE
DI LP2 - BLUE
DI LP3 - BLUE
THROTTLE VALVE - BLUE + BLACK
VSD - BLUE
AIR BOX - BLUE + GRAY
DI TK1 - BLUE
DI TK2 - BLUE
DI TK3 - BLUE
DI TK4 - BLUE
LIGHT STACK - BLUE
PNET 1 - GREY
PNET 3 - BLUE
PNET 1 - BLACK

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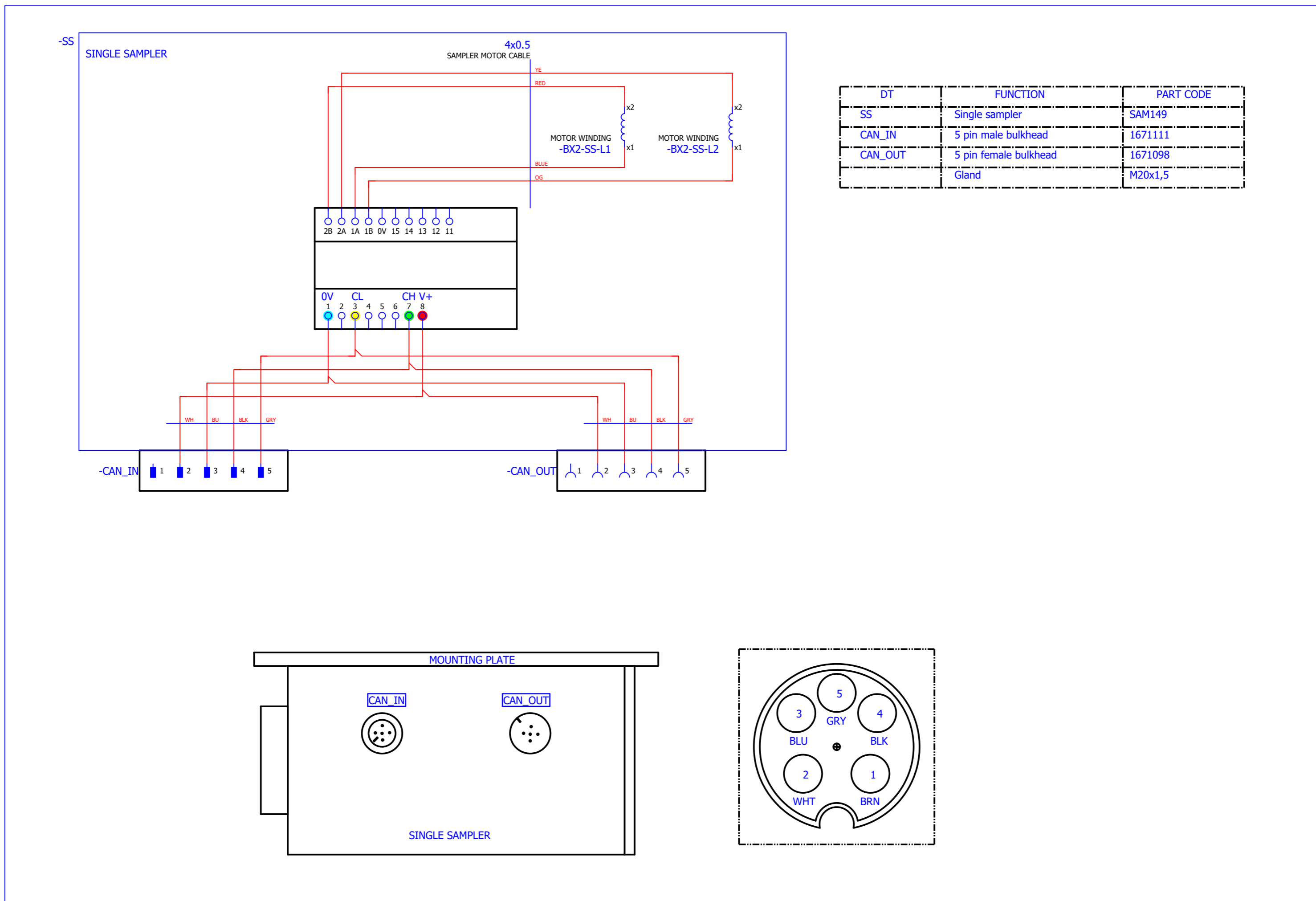


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Date	3.02.2026	Project Desc.	FLOSTREAM SYSTEM SCHEMATICS	Page					20	from
By	CCsystems									

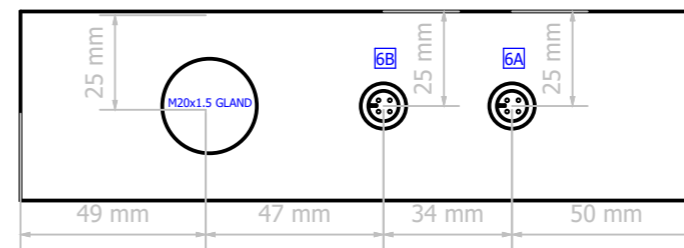
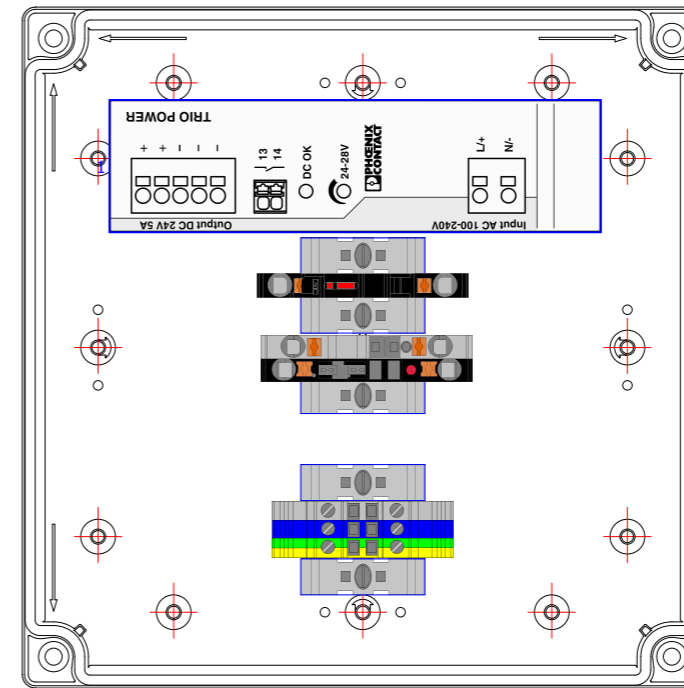
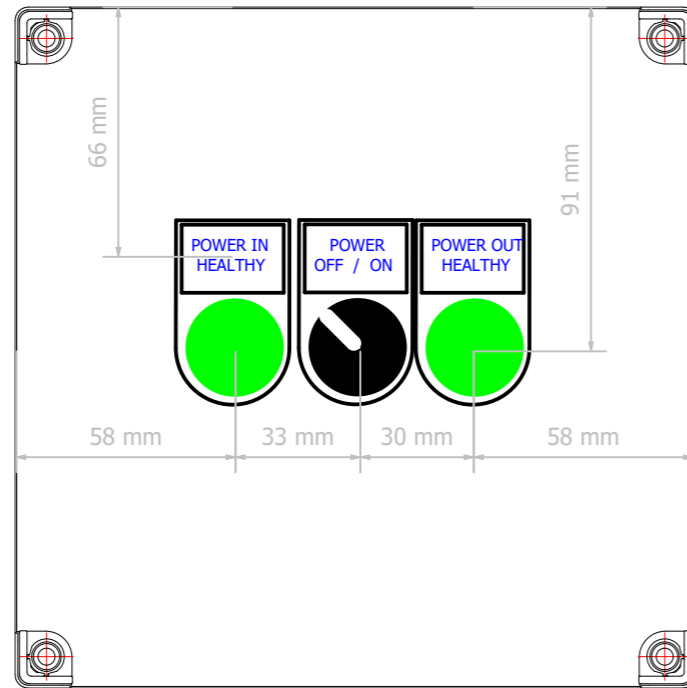
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DT	FUNCTION	PART CODE
SS	Single sampler	SAM149
CAN_IN	5 pin male bulkhead	1671111
CAN_OUT	5 pin female bulkhead	1671098
	Gland	M20x1,5

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ABS 175/150 HG ENCLOSURE
 DIMENSIONS 180*180*150
 CODE 6081323

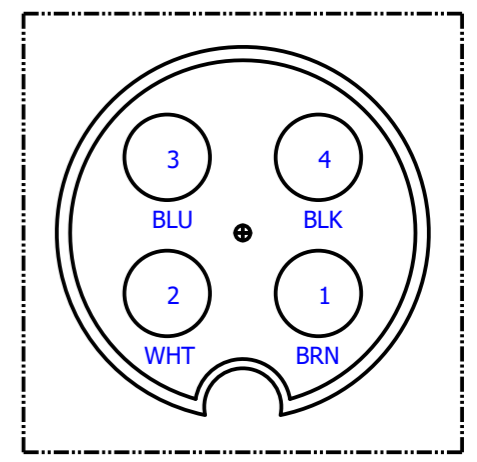
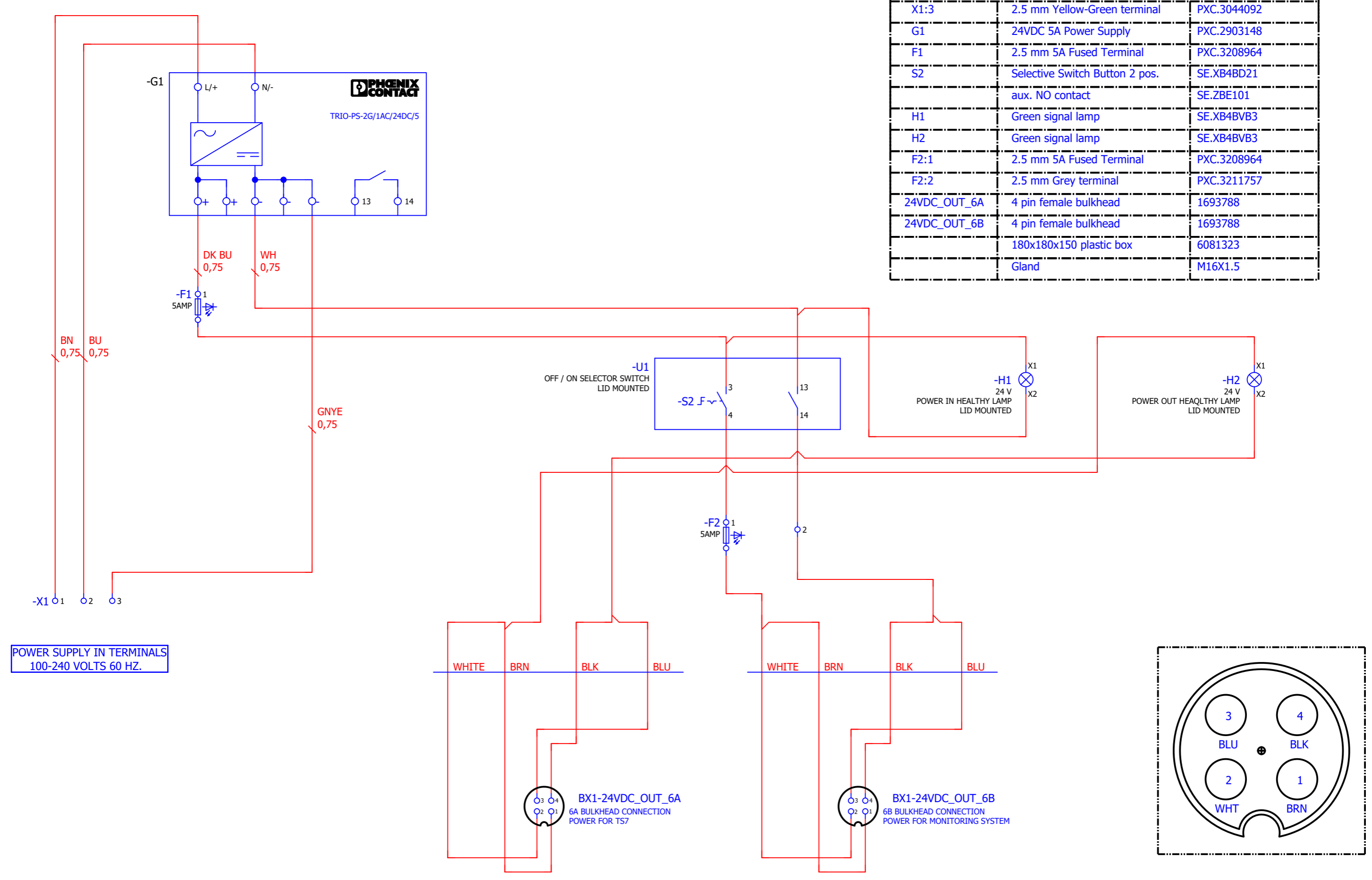


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Date	3.02.2026	Project Desc.	FLOSTREAM SYSTEM SCHEMATICS	LOCATION				PB1		
By	CCsystems									

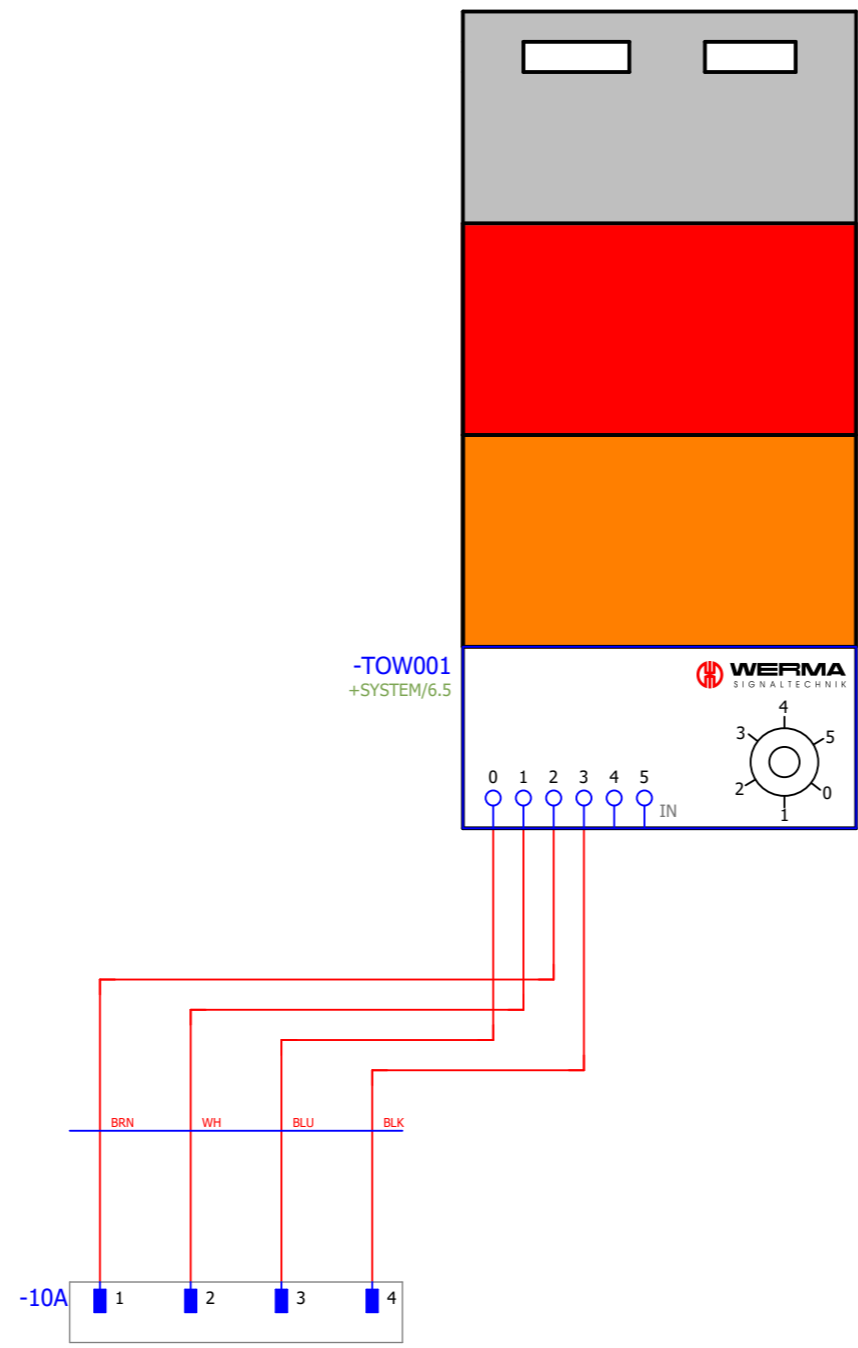
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-BX1
SYSTEM/6.1

DT	FUNCTION	PART CODE
X1:1	2.5 mm Grey terminal	PXC.3044076
X1:2	2.5 mm Blue terminal	PXC.3044089
X1:3	2.5 mm Yellow-Green terminal	PXC.3044092
G1	24VDC 5A Power Supply	PXC.2903148
F1	2.5 mm 5A Fused Terminal	PXC.3208964
S2	Selective Switch Button 2 pos. aux. NO contact	SE.XB4BD21 SE.ZBE101
H1	Green signal lamp	SE.XB4BVB3
H2	Green signal lamp	SE.XB4BVB3
F2:1	2.5 mm 5A Fused Terminal	PXC.3208964
F2:2	2.5 mm Grey terminal	PXC.3211757
24VDC_OUT_6A	4 pin female bulkhead	1693788
24VDC_OUT_6B	4 pin female bulkhead	1693788
	180x180x150 plastic box	6081323
	Gland	M16X1.5

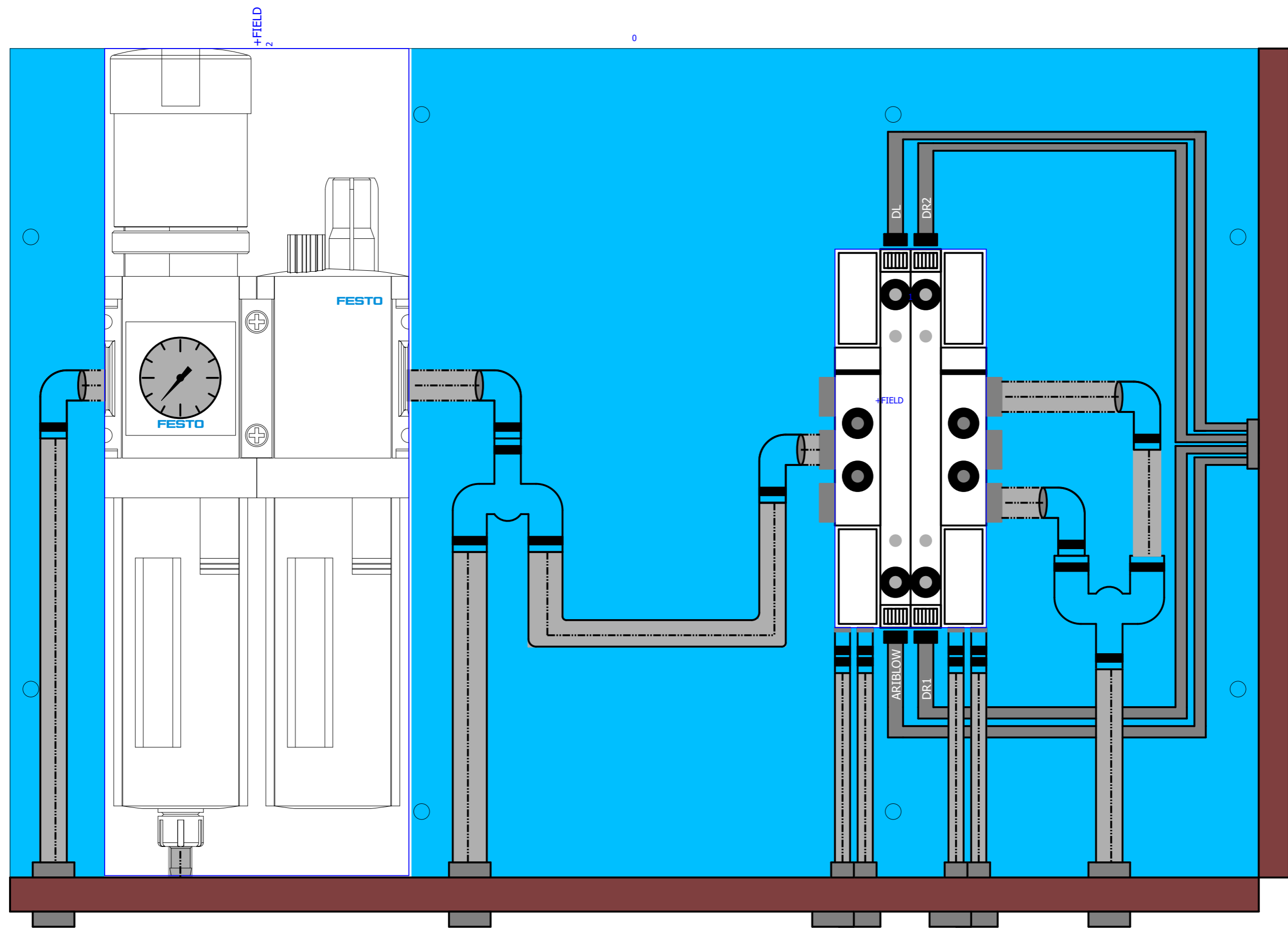


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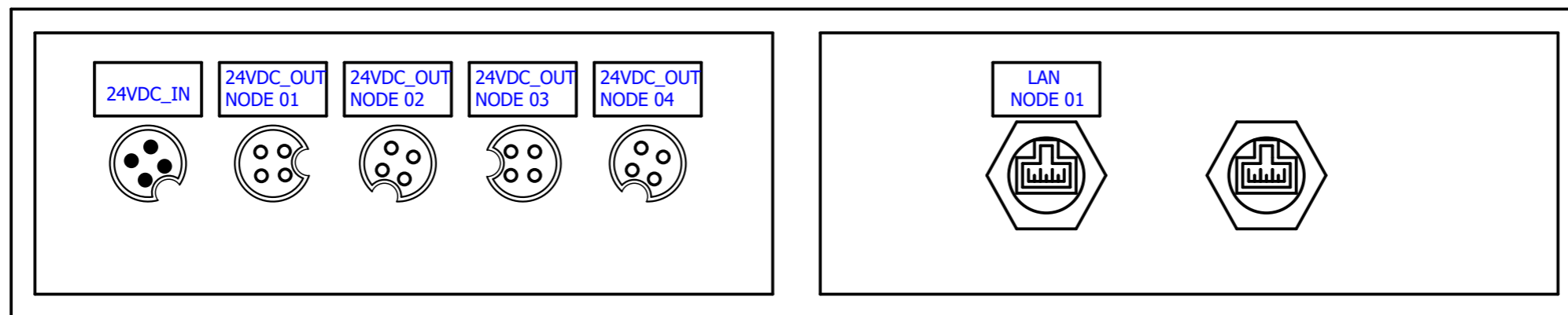
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TOW001	BUZZER	64587075
	RED	64711075
	AMBER	64731075
	DECK	64080000
10A	4 pin male bulkhead	1693762

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Date	3.02.2026	Project Desc.	FLOSTREAM SYSTEM SCHEMATICS					LOCATION	AIRBOX	

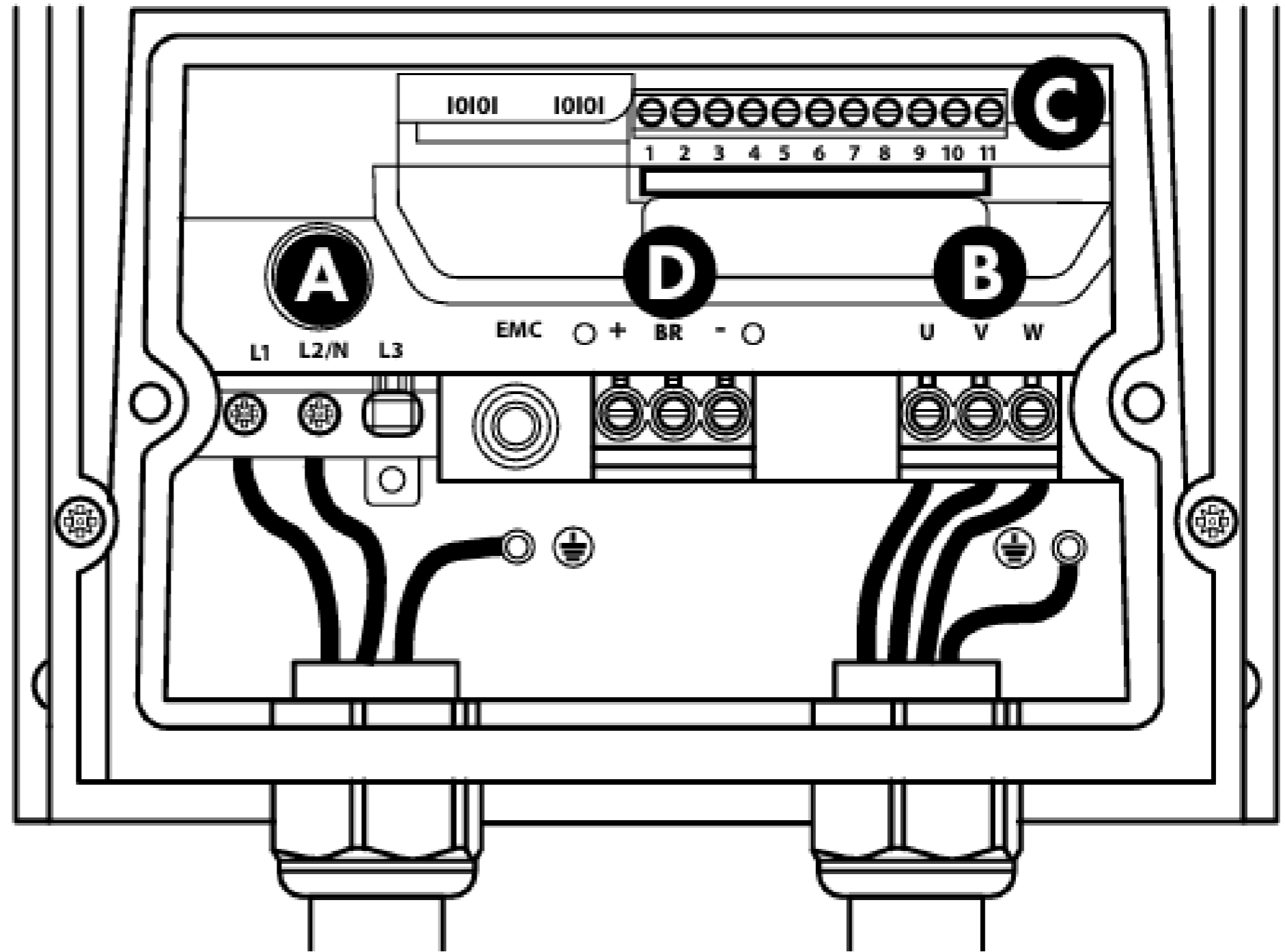
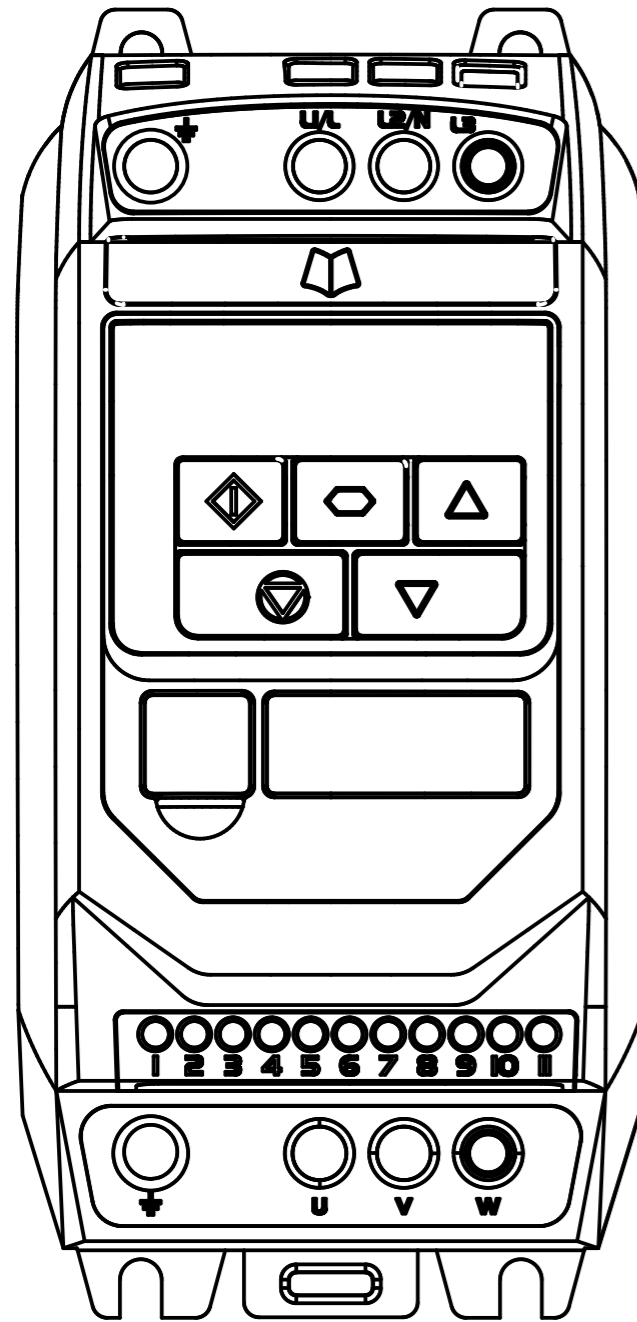
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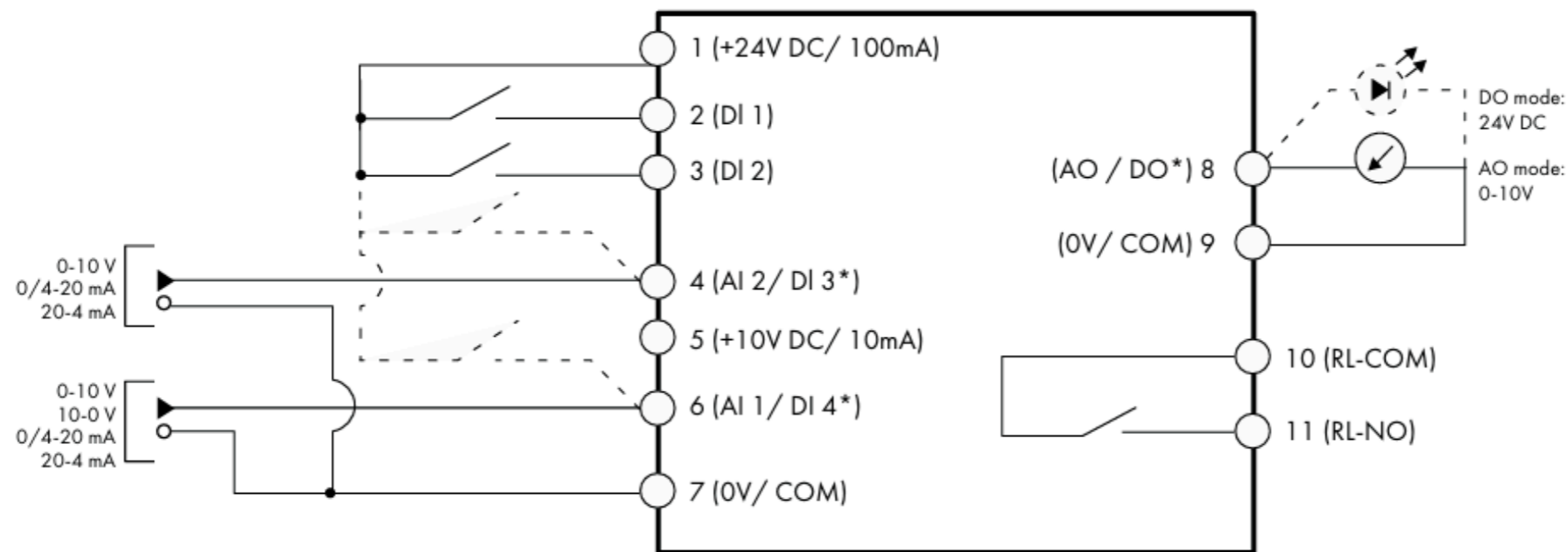
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Date	3.02.2026	Project Desc.	FLOSTREAM SYSTEM SCHEMATICS					LOCATION	BOMMON011	
By	CCsystems									

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Single phase supply



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NOTE

* Dashed lines shows connection for analog inputs and output in digital mode

Key	Default Function		Sec.
	Open	Closed	
1	+24V DC	24 Volt DC Output	On-board +24V DC Supply (100mA)
2	DI 1	Digital Input 1 (Run Enable)	STOP
3	DI 2	Digital Input 2	FORWARD
4	AI 2 / DI 3	Analog Input 2 / Digital Input 3	AI1 Reference
5	+10V DC	+10Volt DC Output	On-board +10V DC Supply (10 mA)
6	AI 1 / DI 4	Analog Input 1 / Digital Input 4	Speed Reference 1 (0-10V)
7	0V / COM	0 Volt Common	0V Common for AI/AO/DI/DO
8	AO	Analog Output	Motor Speed (0-10V)
9	0V / COM	0 Volt Common	0V Common for AI/AO/DI/DO
10	RL-COM	Relay Output Common	Drive Faulty
11	RL-NO	Relay Output NO Contact	Drive Healthy

NOTE

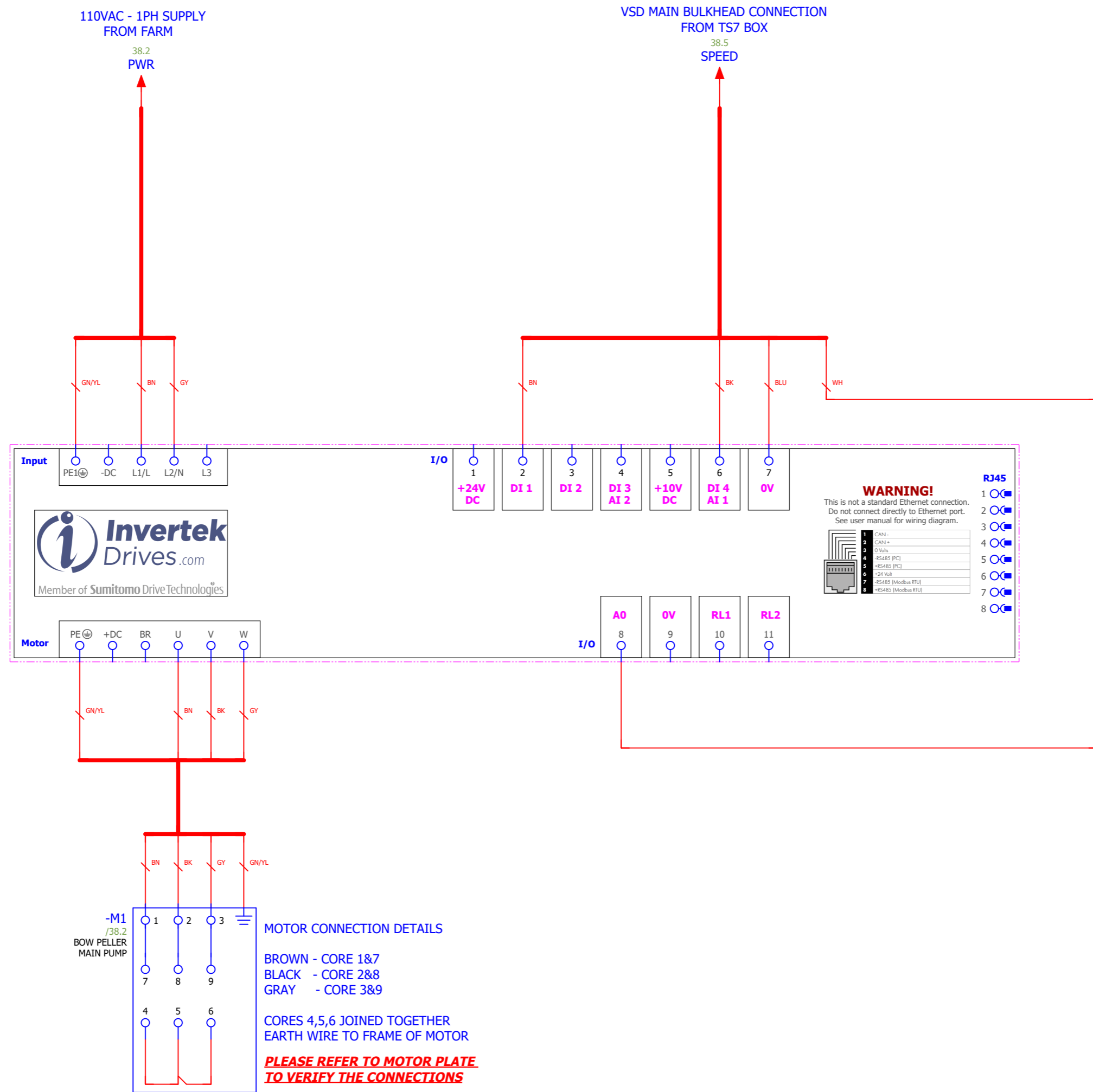
Digital Inputs: Logic High = 8-30V DC (30V DC max)

Analog Output: 0 – 10 Volt (20mA max)

Relay Output: 6A/250V AC, 5A/30V DC (resistive load)

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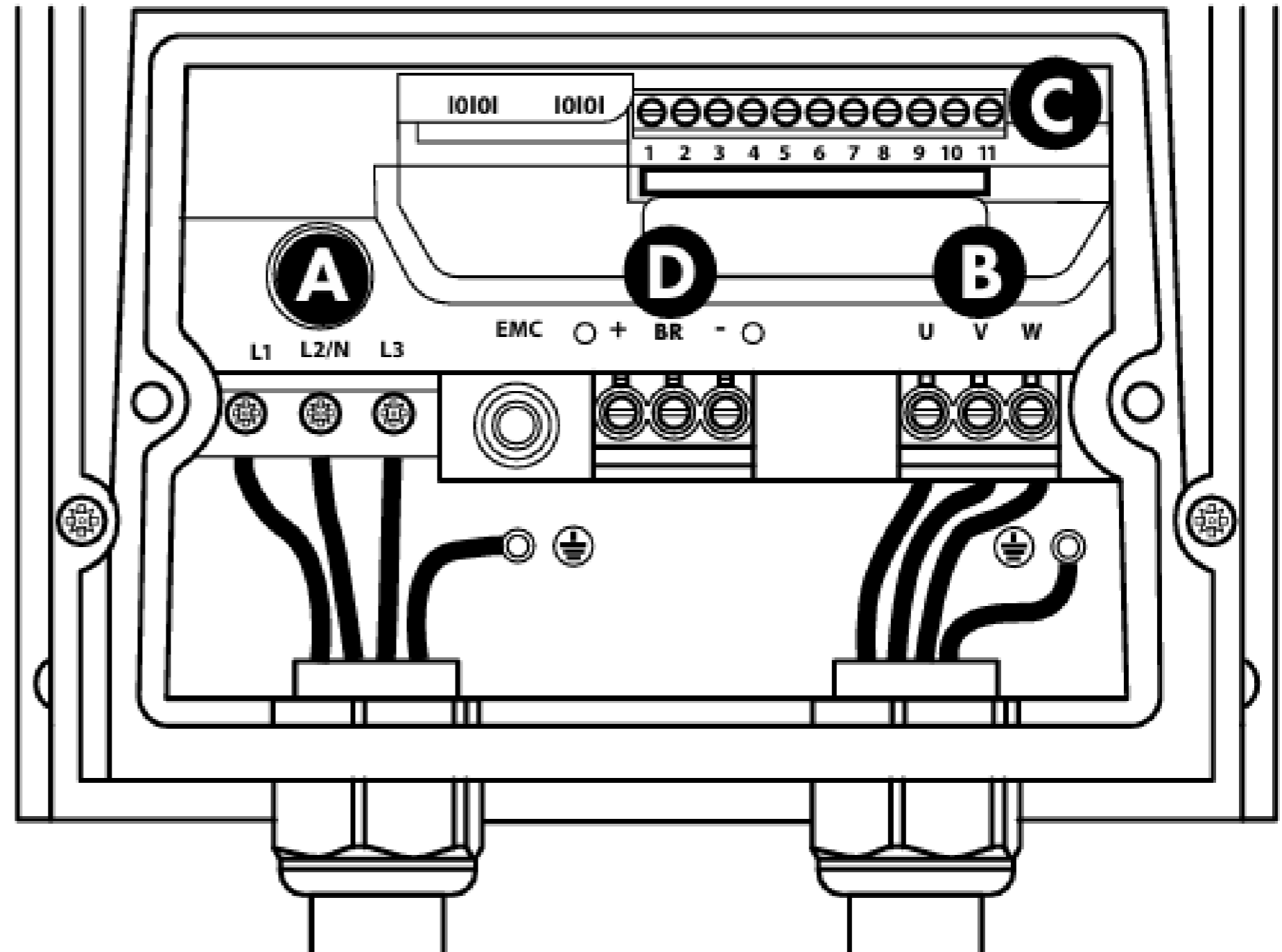
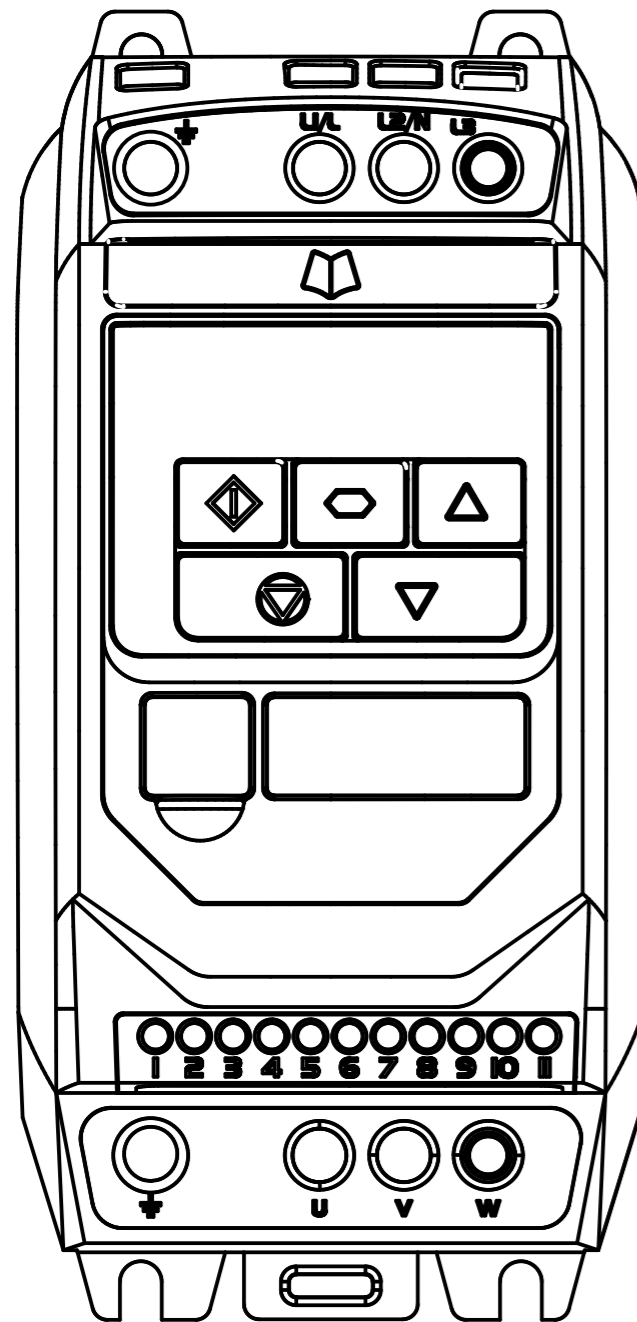
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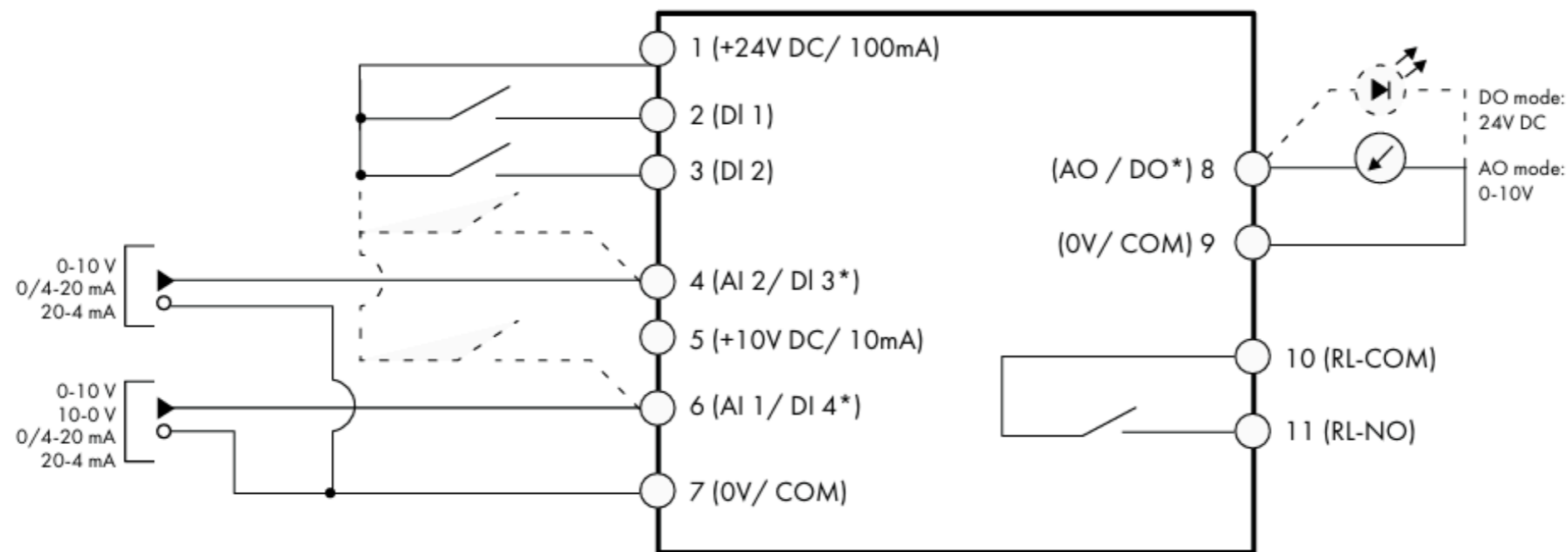
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3 phase supply



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NOTE

* Dashed lines shows connection for analog inputs and output in digital mode

Key	Default Function		Sec.
	Open	Closed	
1	+24V DC	24 Volt DC Output	On-board +24V DC Supply (100mA)
2	DI 1	Digital Input 1 (Run Enable)	STOP
3	DI 2	Digital Input 2	FORWARD
4	AI 2 / DI 3	Analog Input 2 / Digital Input 3	AI1 Reference
5	+10V DC	+10Volt DC Output	On-board +10V DC Supply (10 mA)
6	AI 1 / DI 4	Analog Input 1 / Digital Input 4	Speed Reference 1 (0-10V)
7	0V / COM	0 Volt Common	0V Common for AI/AO/DI/DO
8	AO	Analog Output	Motor Speed (0-10V)
9	0V / COM	0 Volt Common	0V Common for AI/AO/DI/DO
10	RL-COM	Relay Output Common	Drive Faulty
11	RL-NO	Relay Output NO Contact	Drive Healthy

NOTE

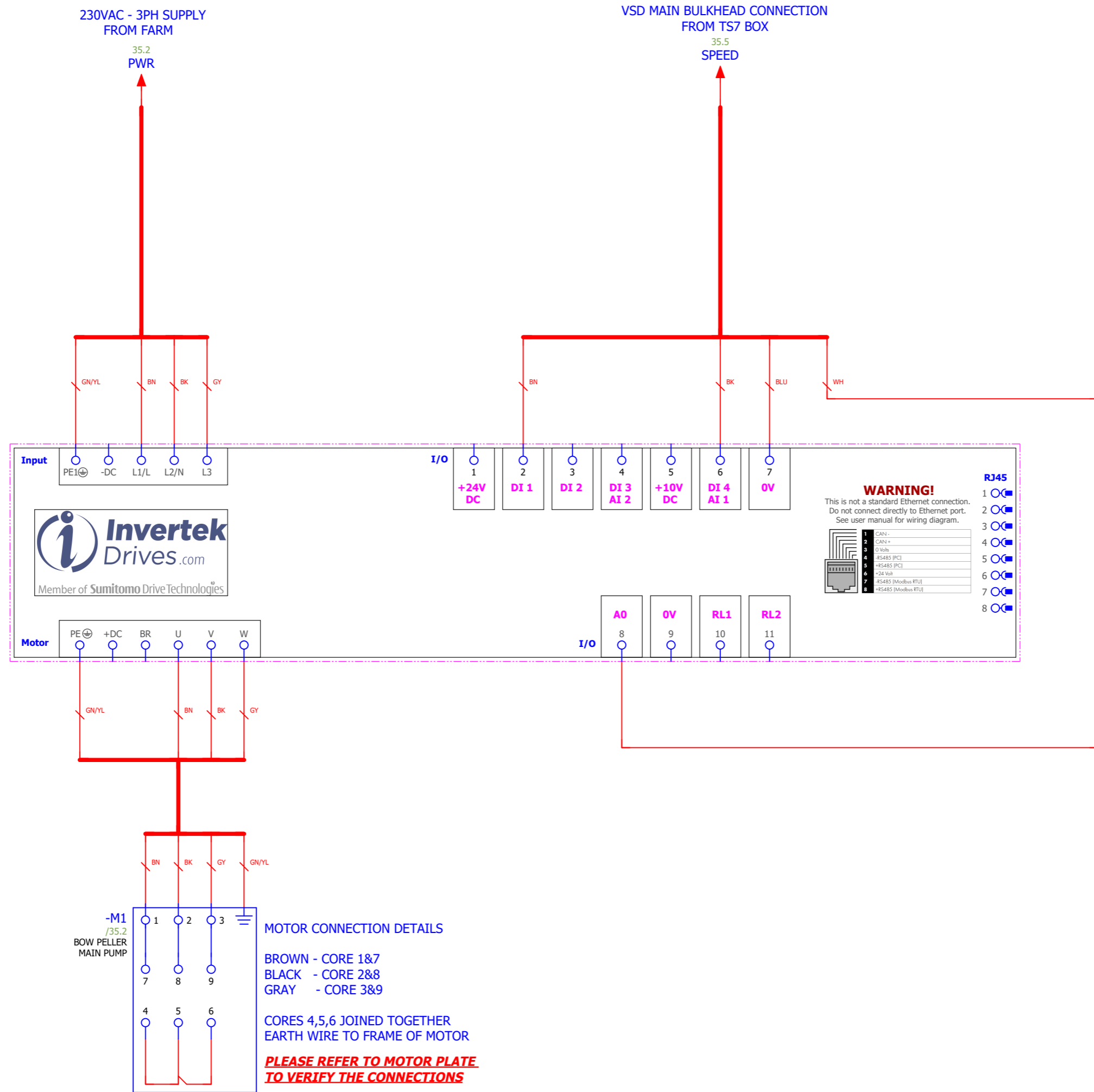
Digital Inputs: Logic High = 8-30V DC (30V DC max)

Analog Output: 0 – 10 Volt (20mA max)

Relay Output: 6A/250V AC, 5A/30V DC (resistive load)

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