



## Innovation Wave For Engineering Services

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Contractor

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Manufacturer (Company)

Innovation Wave For Engineering Services

Project Description

S.K.U.A

Drawing Title

DGP-SCWP-1  
(MCC-SCWP-1)

Number of pages 18

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DGP-SCWP-1	(MCC-SCWP-1)

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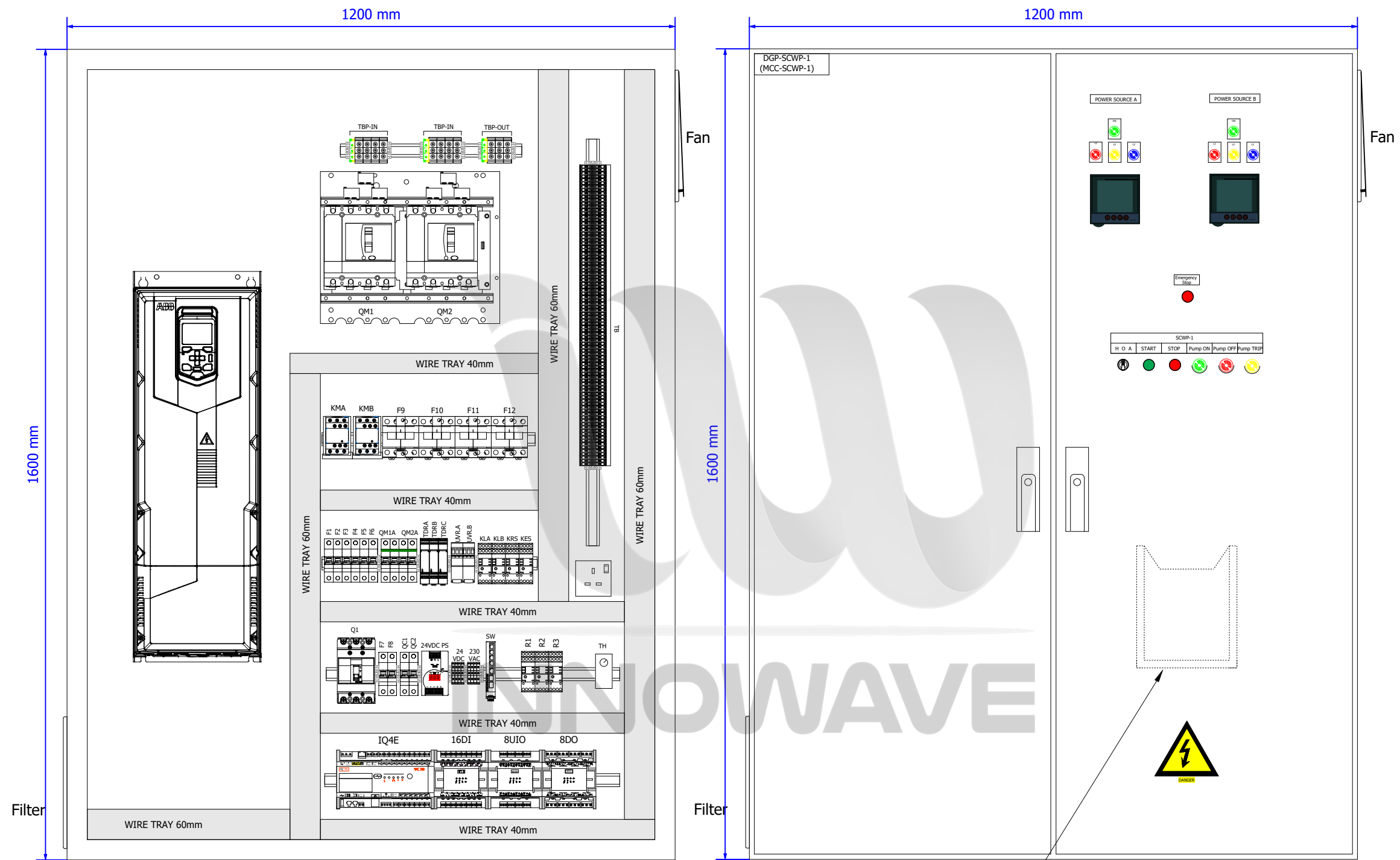
# Summarized parts list

Device Tag	Part number	Quantity	Designation	Manufacturer
Data Switch	1085039	1	Narrow Ethernet switch, five RJ45 ports with 10/100 Mbps on all ports, automatic data transmission speed detection, autocrossing function, and QoS	Phoenix Contact
KES;KLA;KLB;KRS;R1...R3	RXM4AB1P7	7	Miniature plug-in relay - Zelio RXM - 4 C/O - 230 V AC - 6 A	Schneider
KES;KLA;KLB;KRS;R1...R3	RXZE2M114M	7	Socket, mixed contact, relay type RXM2 RXM4, connector connection, 250 V AC	Schneider
KMA;KMB	CAD32M7	2	TeSys Deca control relay,3NO+2NC,<=690V,220V AC standard coil	Schneider
TDRA;TDRB;TDRC	RE17RAMU	3	Modular Timing Relay	Schneider
PIN-1;PIN-2;POUT	CTS35UN	11	Screw Terminal, Feed Through, Conductor cross section stranded, 4 - 35mm <sup>2</sup> Dimensions (L x W x H), 50.5 x 16 x 59.2mm Colour "grey", 1000 V/125A	Connectwell
PIN-1;PIN-2;POUT	CGT10U	3	Conductor cross section stranded, 0.2 - 10mm <sup>2</sup> , Dimensions (L x W x H), 45 x 10 x 51mm, Colour "green/yellow"	Connectwell
24VDC;230VAC	CTS4UN	8	Screw Terminal, Feed Through, Conductor cross section mm <sup>2</sup> stranded, 0.2 - 4mm <sup>2</sup> Dimensions (L x W x H), 43 x 6 x 46.2mm Colour "grey", 1000 V/32A	Connectwell
TB	3211757	90	Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, Rated cross section: 4 mm <sup>2</sup> , cross section: 0.2 mm <sup>2</sup> - 6 mm <sup>2</sup> , mounting type: NS 35/7,5, NS 35/15, color: gray	Phoenix Contact
Socket	617040	1	Socket outlet - 1 gang unswitched - 13 A 250 V~	Legrand
F1...F8	A9N15636	8	Acti 9 STI - fuse-disconnector STI - 1 pole - 25 A - for fuse 10.3 x 38 mm	Schneider
F9...F12	A9N15656	4	Acti 9 - fuse-disconnector STI - 3 poles - 25 A - for fuse 10.3 x 38 mm	Schneider
Mechanical interlocking	29349	1	Base plate for mechanical interlocking	Schneider
Q1	EZC100H3080	1	Circuit breaker,EasyPact EZC100H ,TMD, 80A ,3 poles 3d	Schneider
QC1;QC2	A9F44106	2	Acti9 iC60N 1P 6A C Miniature Circuit breaker	Schneider
QM1;QM2	LV429640	2	Circuit breaker, ComPact NSX100F, 36kA/415VAC, TMD trip unit 100A, 4 poles 3d	Schneider
QM1;QM2	29450	2	ON/OFF/SD/ Auxiliary Contact	Schneider
QM1;QM2	LV429387	2	Shunt trip release	Schneider
QM1A;QM2A	A9F44206	2	Acti9 iC60N 2P 6A C Miniature Circuit breaker	Schneider
MCCB Motor	LV429434	2	Standard motor mechanism module	Schneider
UVR.1;UVR.2	RM22TR33	2	Modular 3-phase voltage control relay, 8 A, 2 CO, 380...480 V AC	Schneider
H1;H4;H9	XB7EV04MP	3	Pilot Light - Integral LED - 230-240V AC - Red	Schneider
H2;H5;H8	XB7EV05MP	3	Pilot Light - Integral LED - 230-240V AC - Yellow	Schneider
H3;H6	XB7EV06MP	2	Pilot Light - Integral LED - 230-240V AC - Blue	Schneider
H7;H10;H11	XB7EV03MP	3	Pilot Light - Integral LED - 230-240V AC - Green	Schneider
CT1...CT6	METSECT5CC010	6	current transformer tropicalised DIN mount 100\5 for cables	Schneider
DMM-1;DMM-2	METSEPM2120	2	EasyLogic PM2120, Power &Energy meter, up to the 15th harmonic, LED display, RS485, class 1	Schneider
Emergency Stop	XB4BS8442	1	Harmony XB4, Emergency stop switching off, metal, red mushroom Ø40, Ø22, trigger latching turn to release, 1 NC.	Schneider

# Summarized parts list

Device Tag	Part number	Quantity	Designation	Manufacturer
PB1	XB4BA42	1	Push button, Harmony XB4, metal, flush, red, 22mm, spring return, unmarked, 1NC	Schneider
PB2	XB4BA31	1	Harmony XB4, Push button, metal, flush, green, Ø22, spring return, unmarked, 1 NO	Schneider
S1	XB7ND33	1	Selector switch, plastic, black, Ø22, stay put, 3 positions, stay put, 2 NO	Schneider
S1	ZBE101	2	Single contact block, silver alloy, screw clamp terminal, 1 NO	Schneider
Fan	PTF4500	1	Ventilation Fan 650 m3/h, 230V 50-60Hz, Dimensions: (260x260x111)	Plastim
Filter	PFI2500	1	Filter	Plastim
TH	PTVT	1	Temperature Control Thermostat, NO	Plastim
PS	LP1100D-24MDA	1	DC Power Supply 24V, 4.2A 100w. Din Rail / Screw Mouting. Input range: 90~132/180~264VAC(Selectable), 220~380VDC. Input frequency: 47~63Hz. Monitor Display for Output Voltage	ReignPower
16DI-1	IQ4/IO/16DI	1	I/O Module with 16 digital input channels	Trend
8DO-1	IQ4/IO/8DO	1	I/O Module with 8 digital/relay output channels	Trend
IQ4E	IQ4E/64/BAC/230	1	IQ4E expandable to 64 I/O channels and 230 Vac supply	Trend
8UIO-1	IQ4/IO/8UIO	1	I/O Module with 8 universal input/output channels	Trend
ME		1	Metal Enclosures Double Door, Hight x Width x Depth : 1600x1200x600 (mm)	DKC
VFD 30KW 380V	ACQ580-31-062A-4	1	Ultra Low Harmonics Variable speed drive - 30kW - 62A - 480V - 3ph	ABB

**INNOWAVE**



Front View (Mounting Plate)

Front View (Door Closed)

System Voltage	380-400,3PH,60Hz.
Dimensions (HxWxD)	(1600x1200x600)
Cable Entry	TOP
Mounting	Floor-mount
* All dimensions are in mm.	

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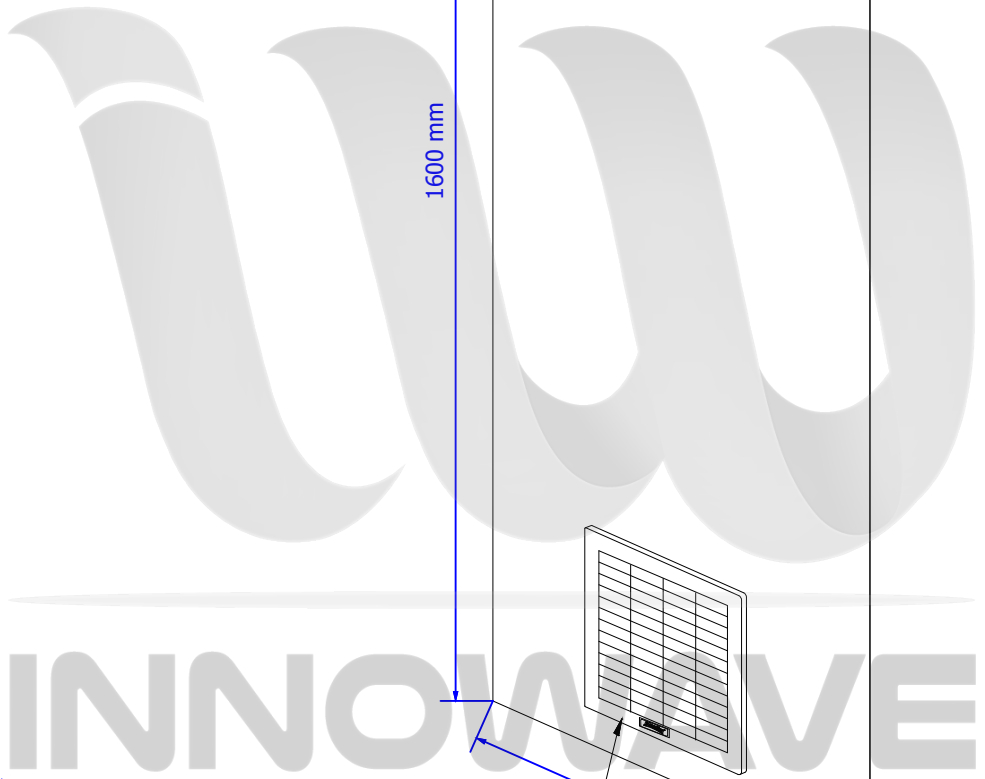
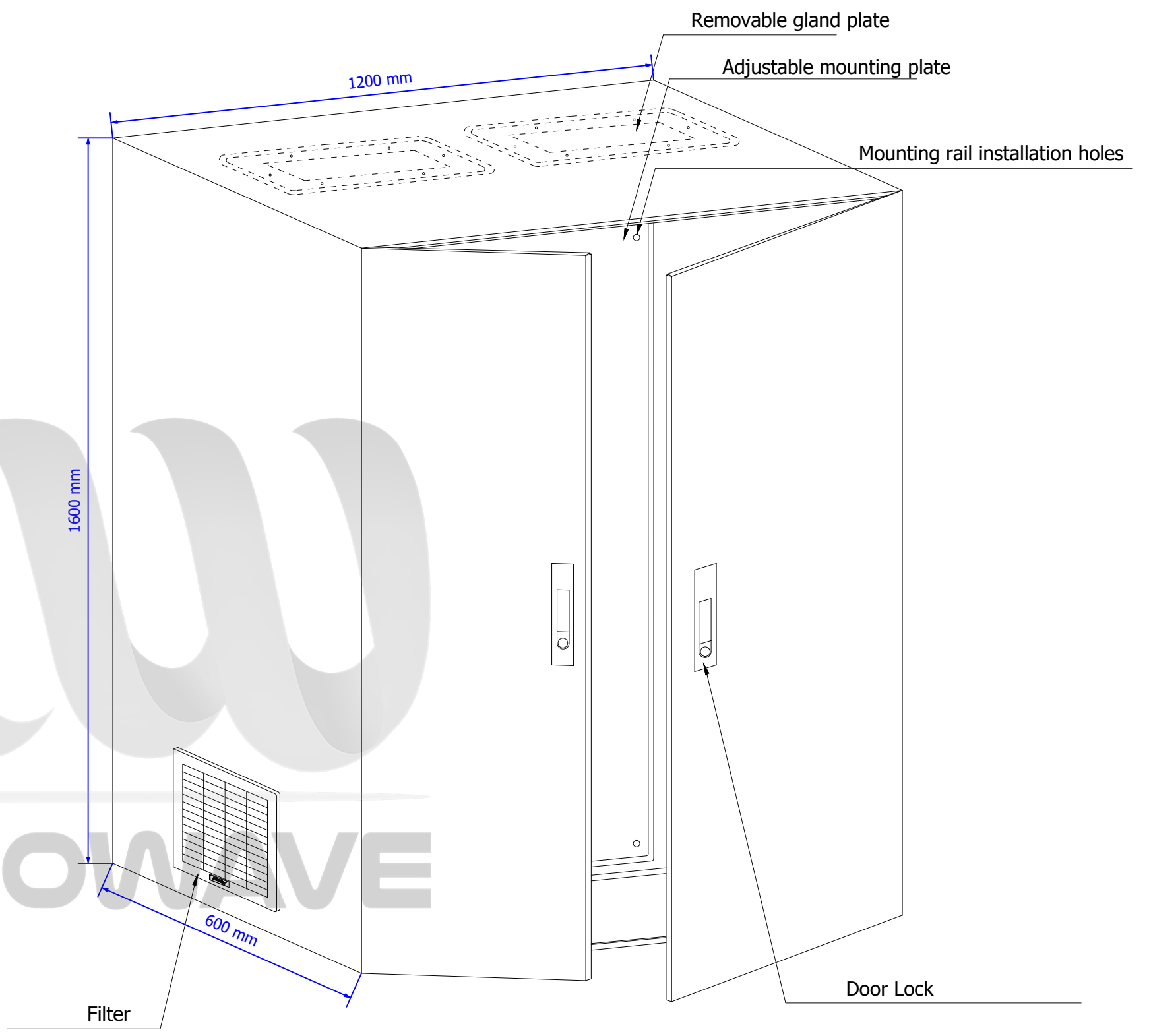
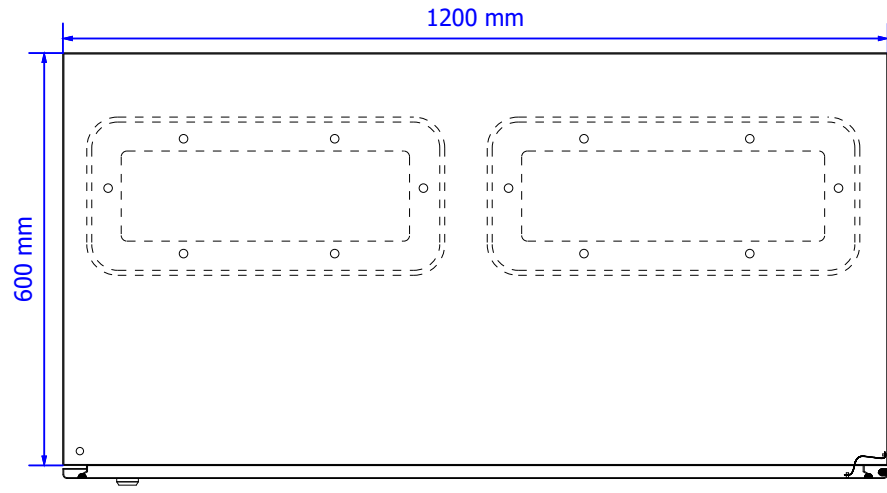
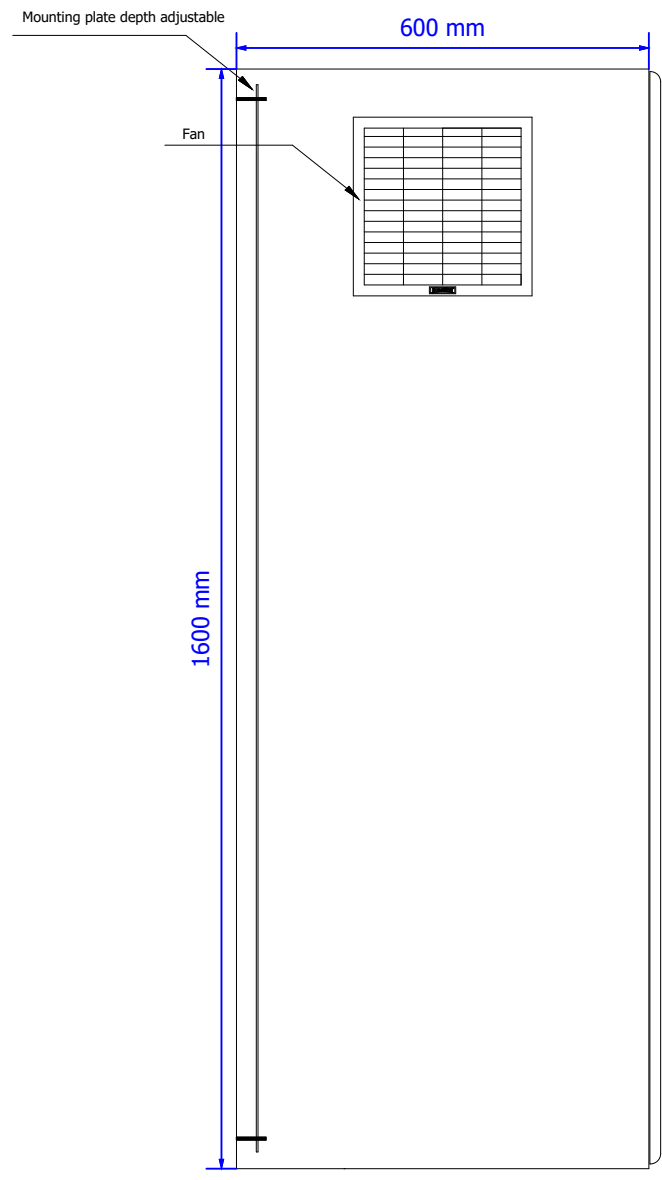
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DGP-SCWP-1 (MCC-SCWP-1)	Page 4/18
Panel Layout	



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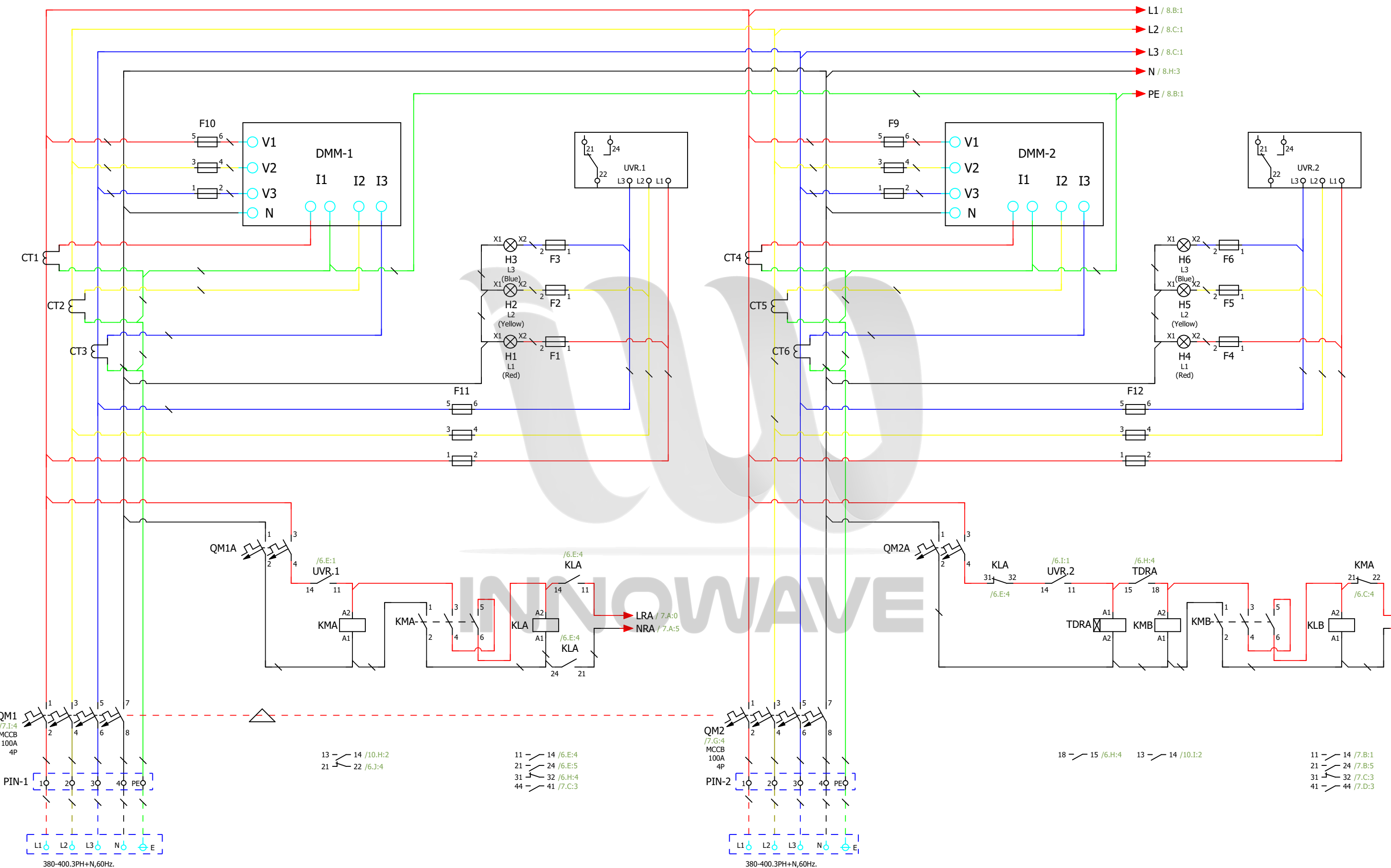
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Panel Layout	



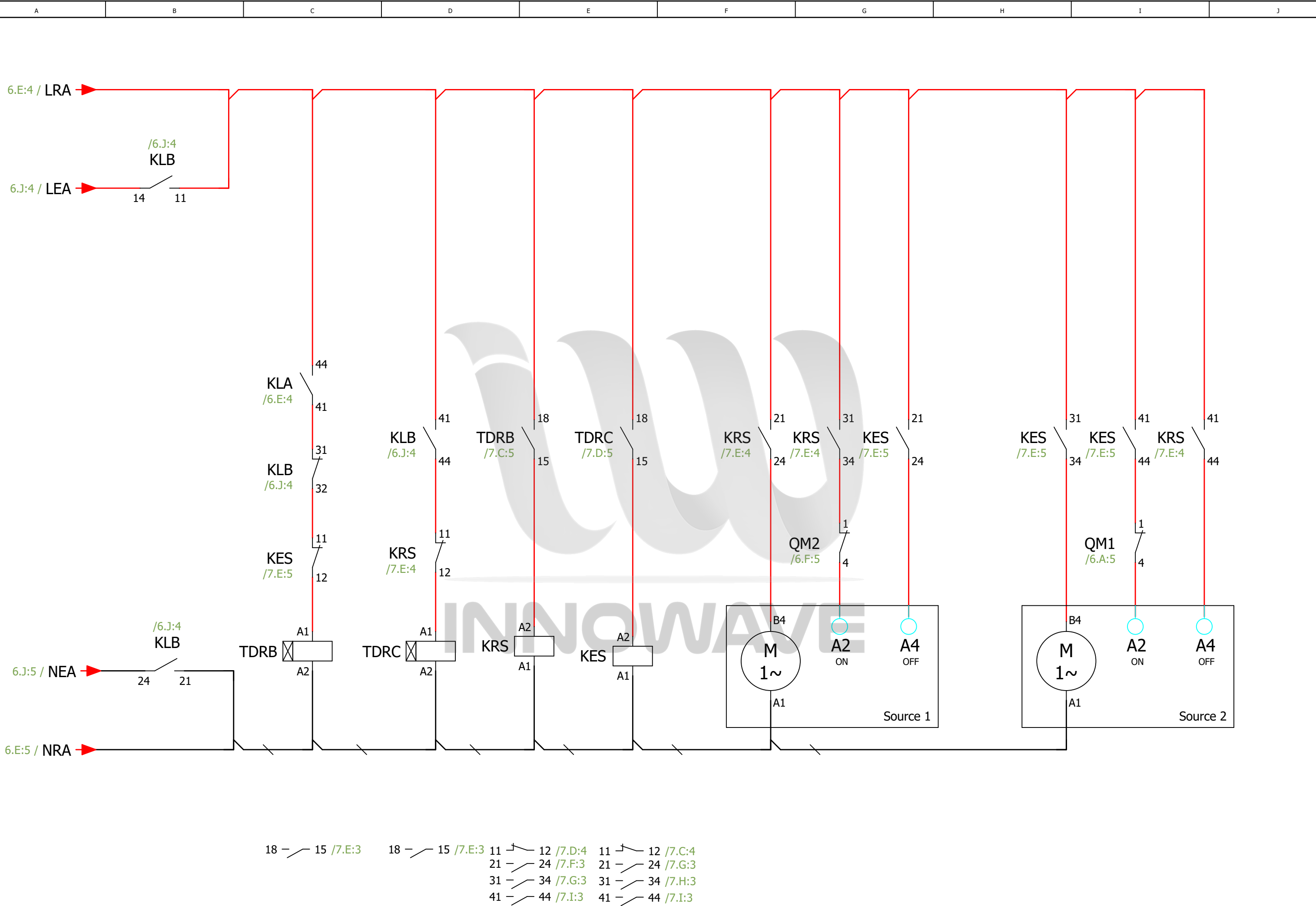
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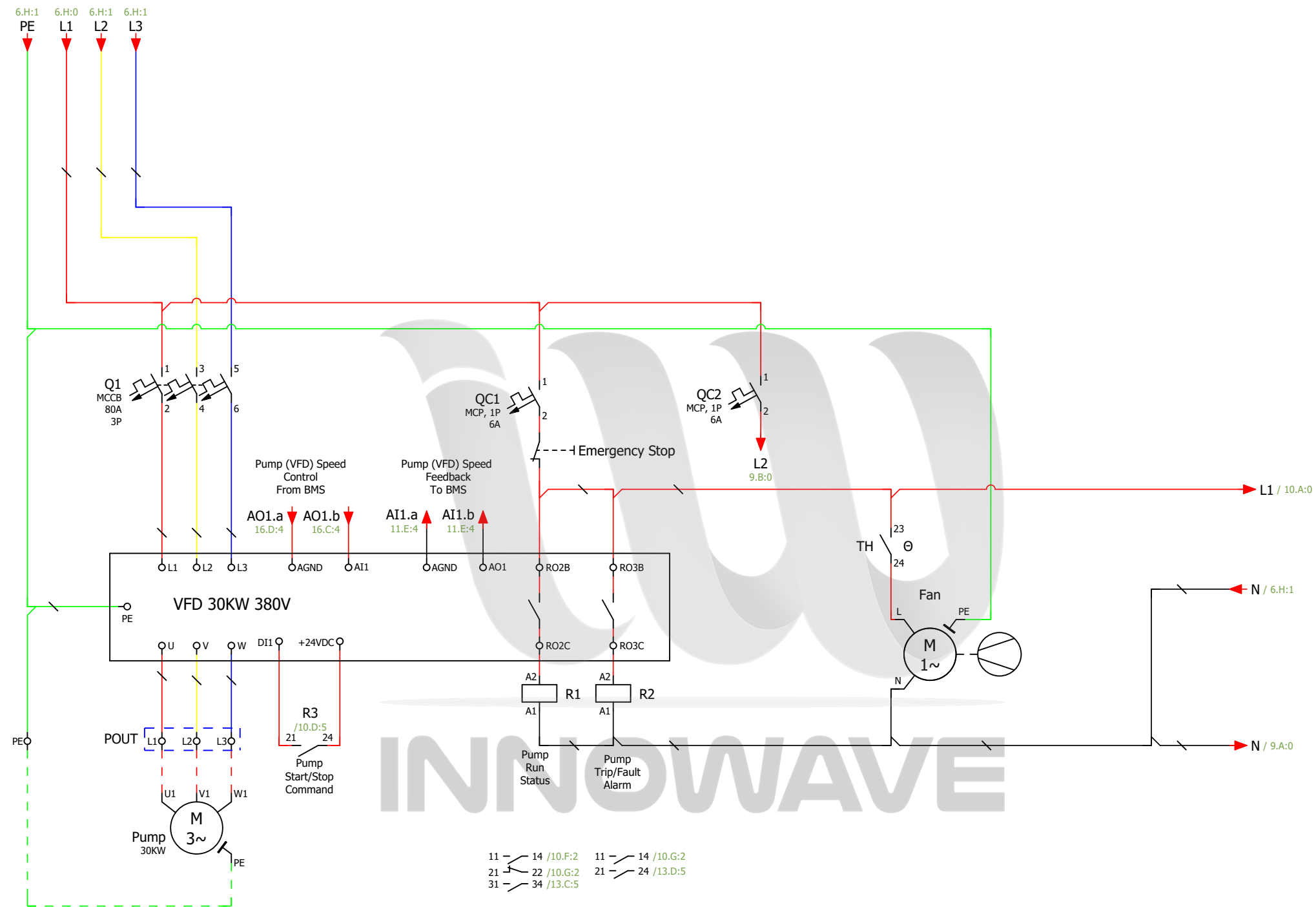
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ATS Control Wiring	





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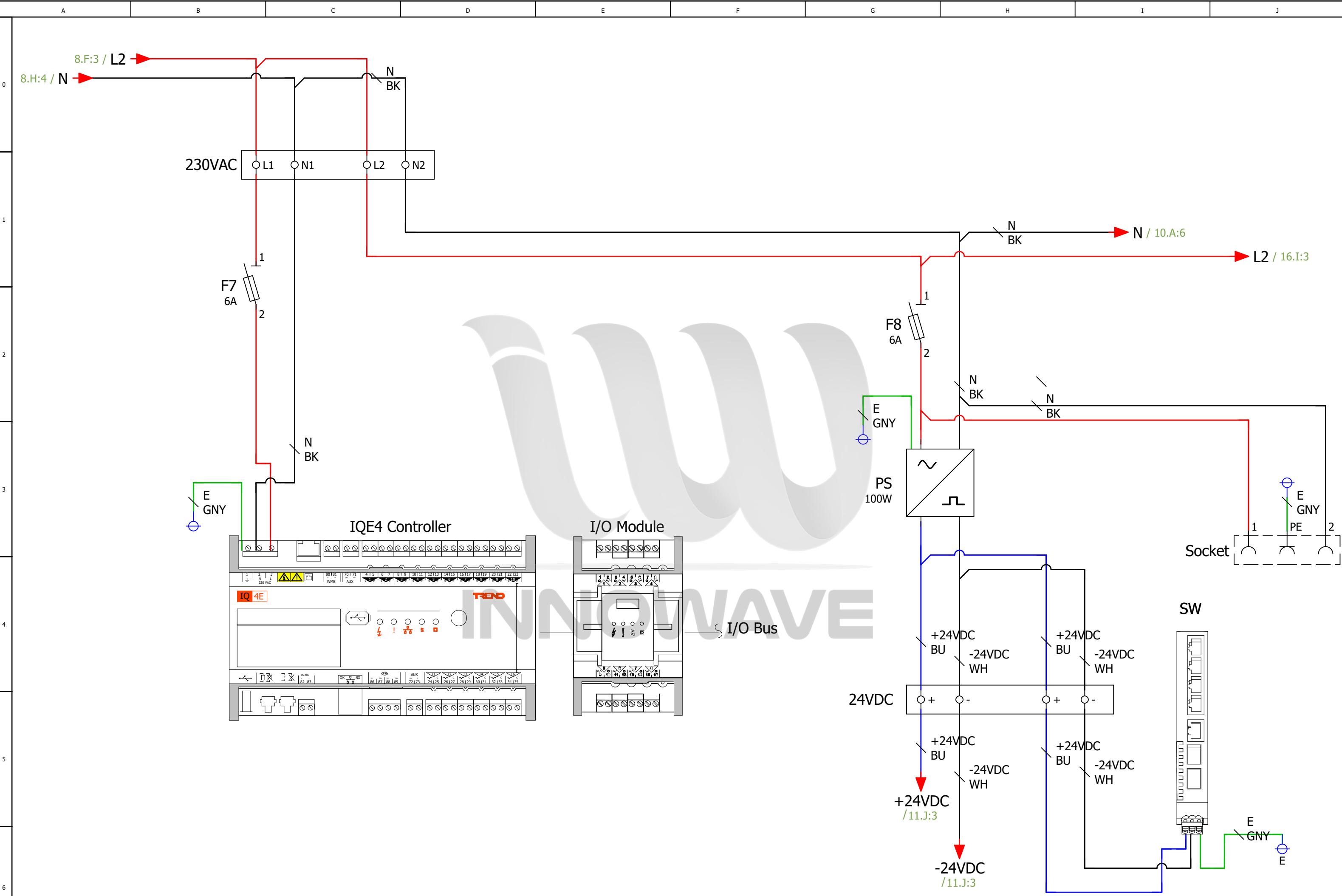
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VFD Wiring	



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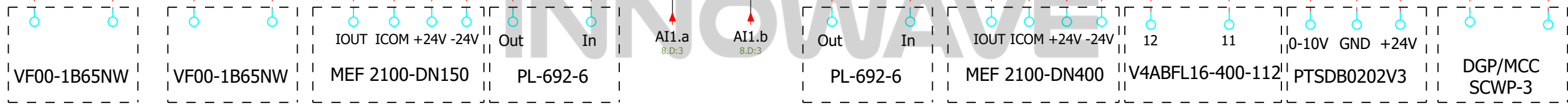
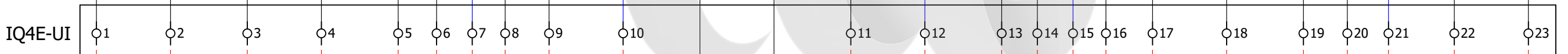
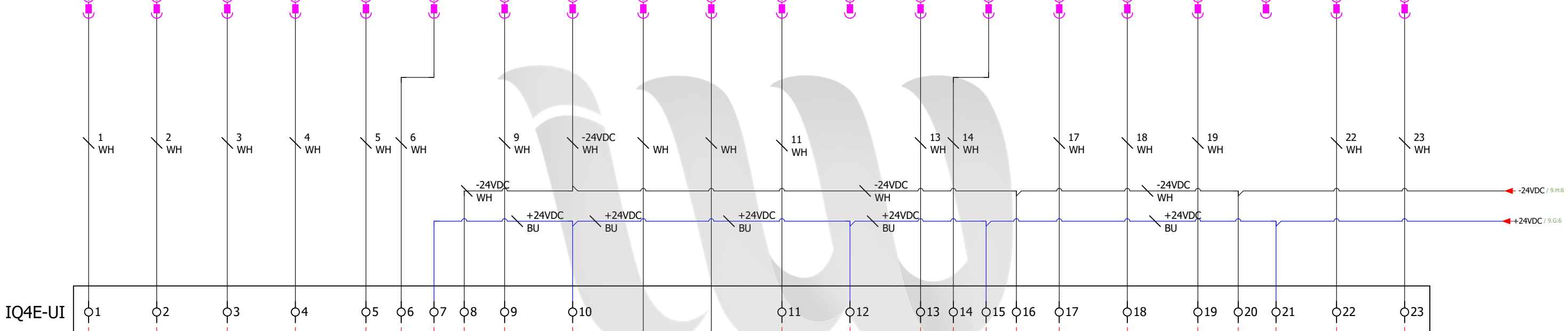
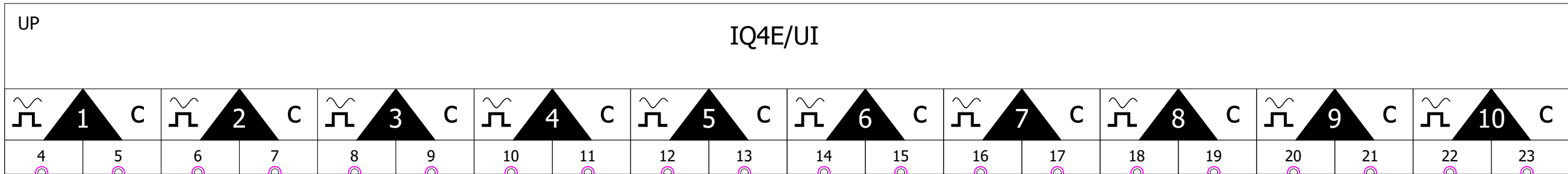
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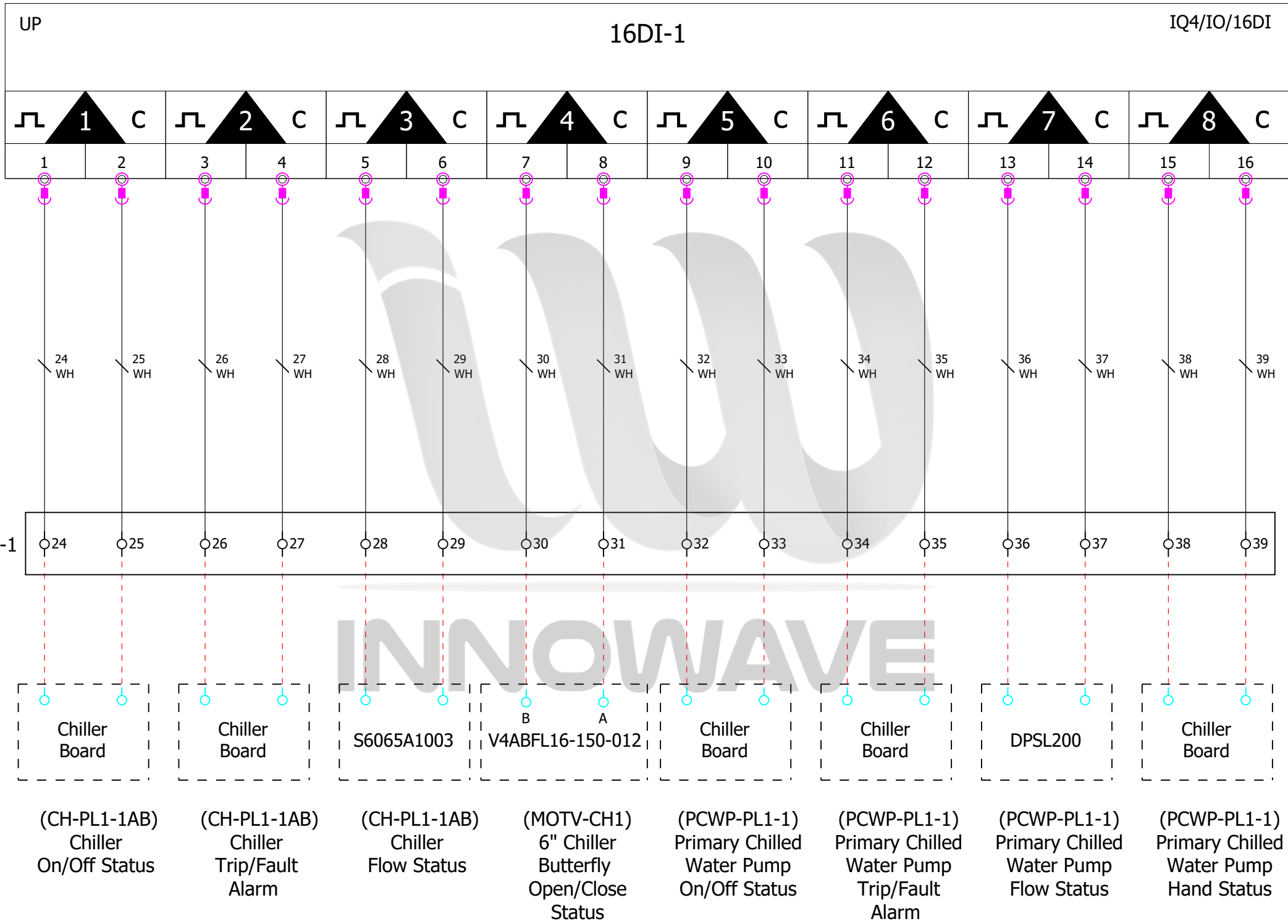
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 Controller & PS Wiring  
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Field Connection

- (TS-CH1-01)  
Chiller Supply  
Immersion  
Temperature
- (TS-CH1-02)  
Chiller Return  
Immersion  
Temperature
- (FLMT-CH1)  
Chiller  
Inline Flow  
(DN150)
- (PCWP-PL1-1)  
Primary Chilled  
Water Pump  
Differential  
Pressure
- (SCWP-PL-1)  
Secondary  
Chilled Water  
Pump  
(VFD) Speed  
Feedback
- (SCWP-PL-1)  
Secondary  
Chilled Water  
Pump  
Differential  
Pressure
- (FLMT-SCWP-1)  
Chilled Water  
Inline Flow  
(DN400)
- (MCV-A)  
Chilled Water  
By-Pass  
Modulating  
Position  
Feedback
- (DPT-A )  
Chilled Water  
Differential  
Pressure
- (DPT-B)  
Chilled Water  
Differential  
Pressure



Field Connection

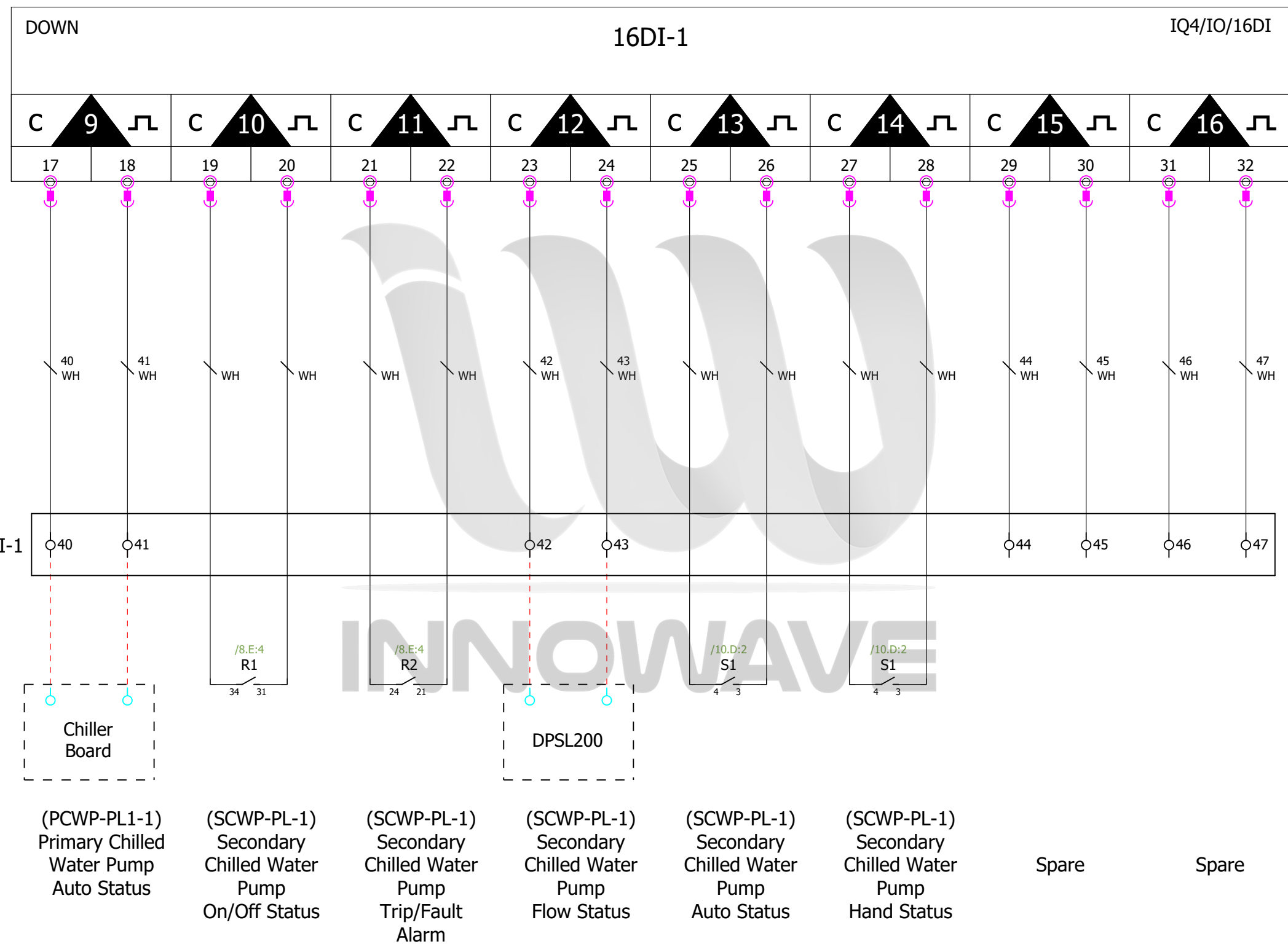
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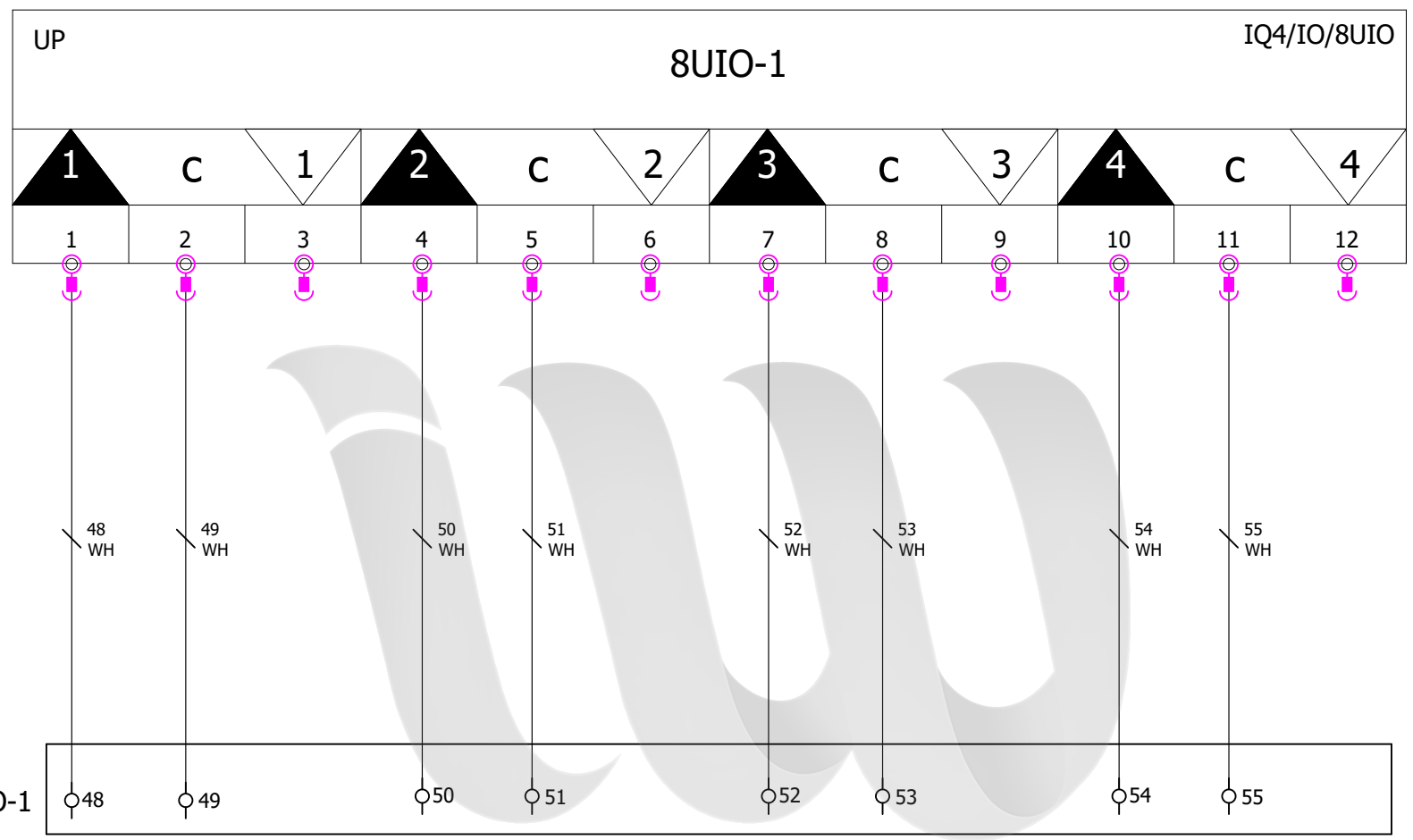
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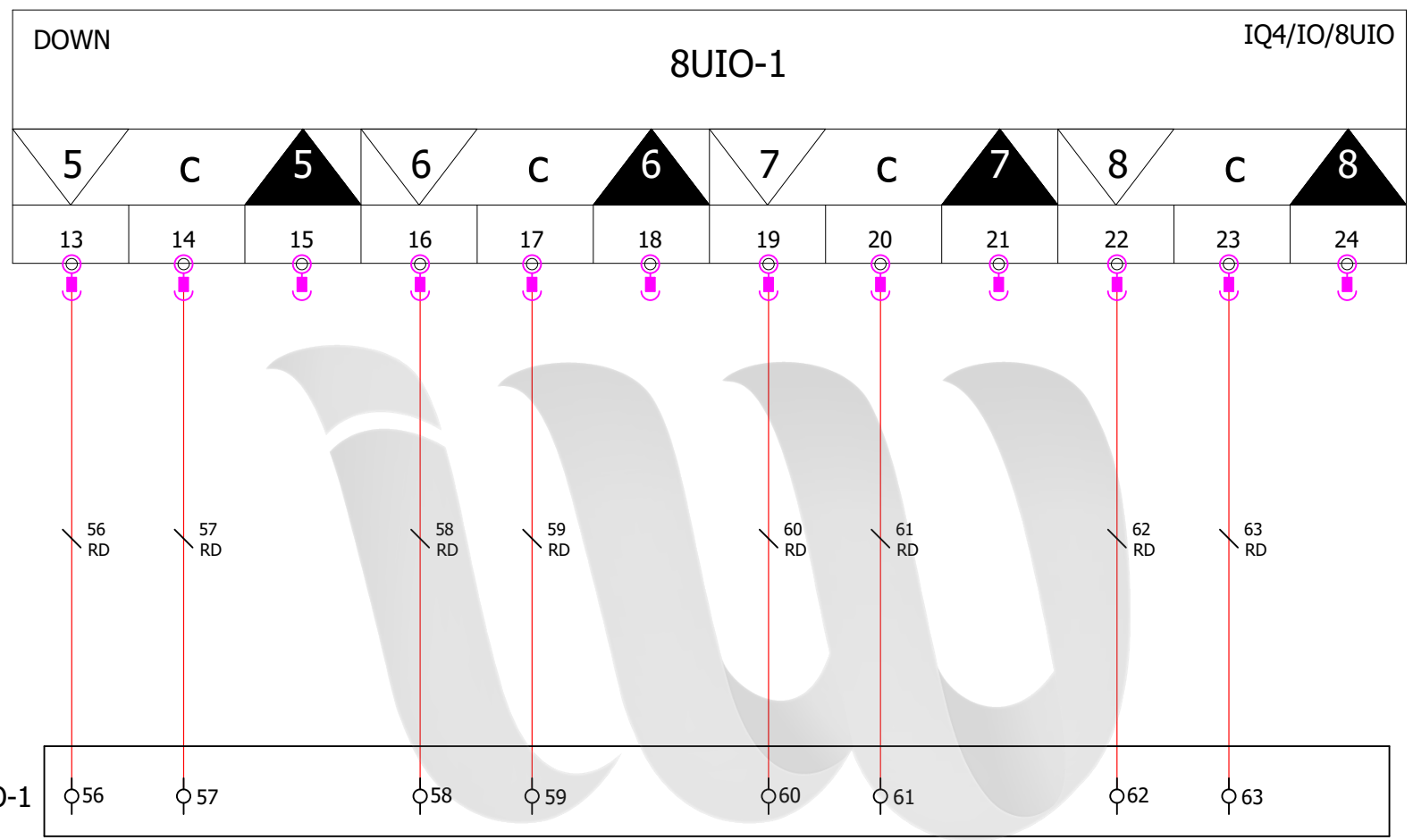
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Field Connection

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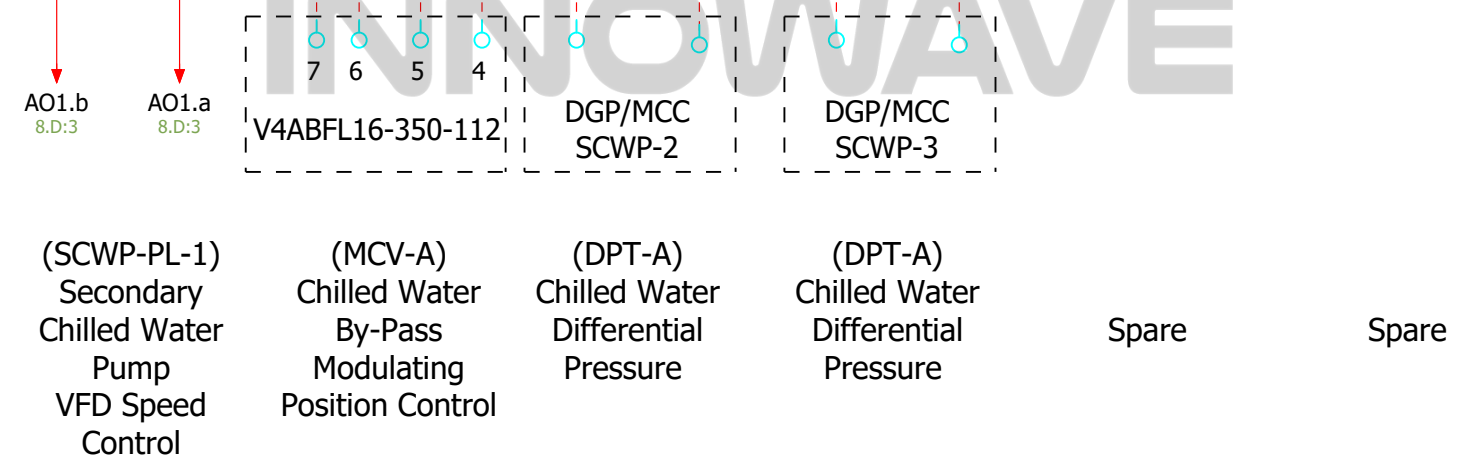
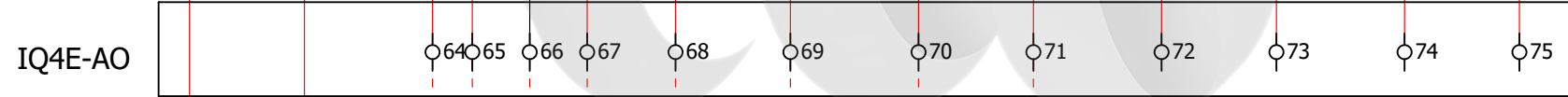
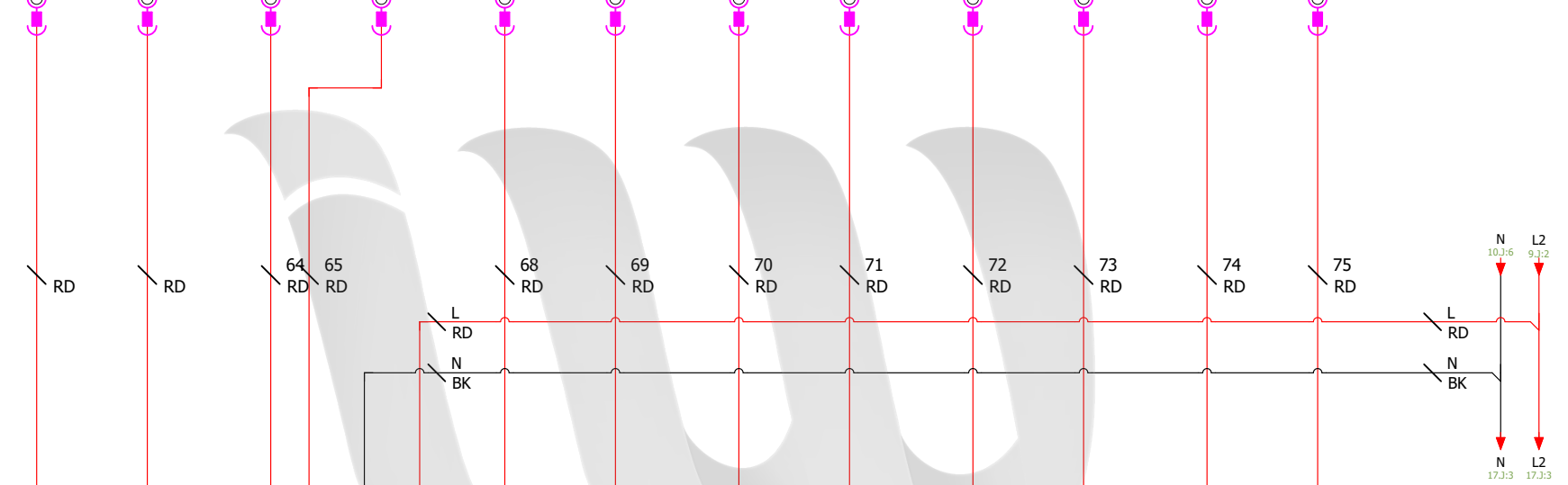
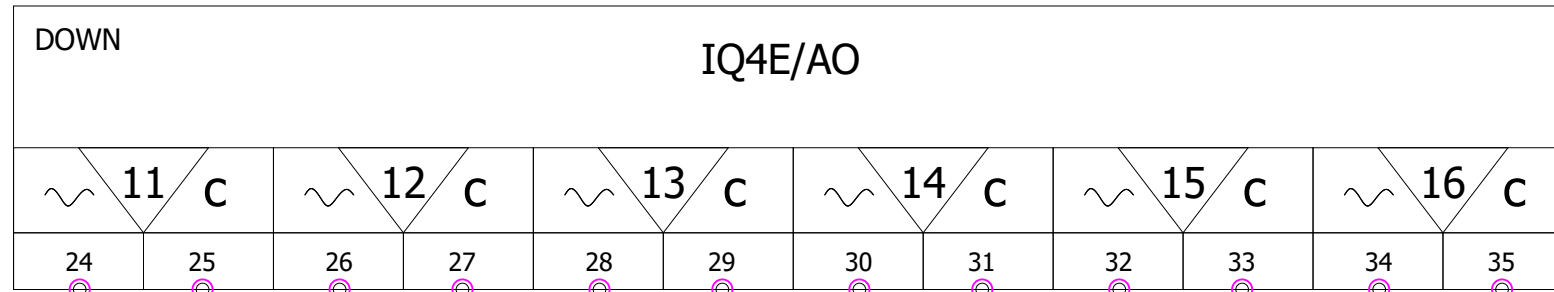
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Field Connection

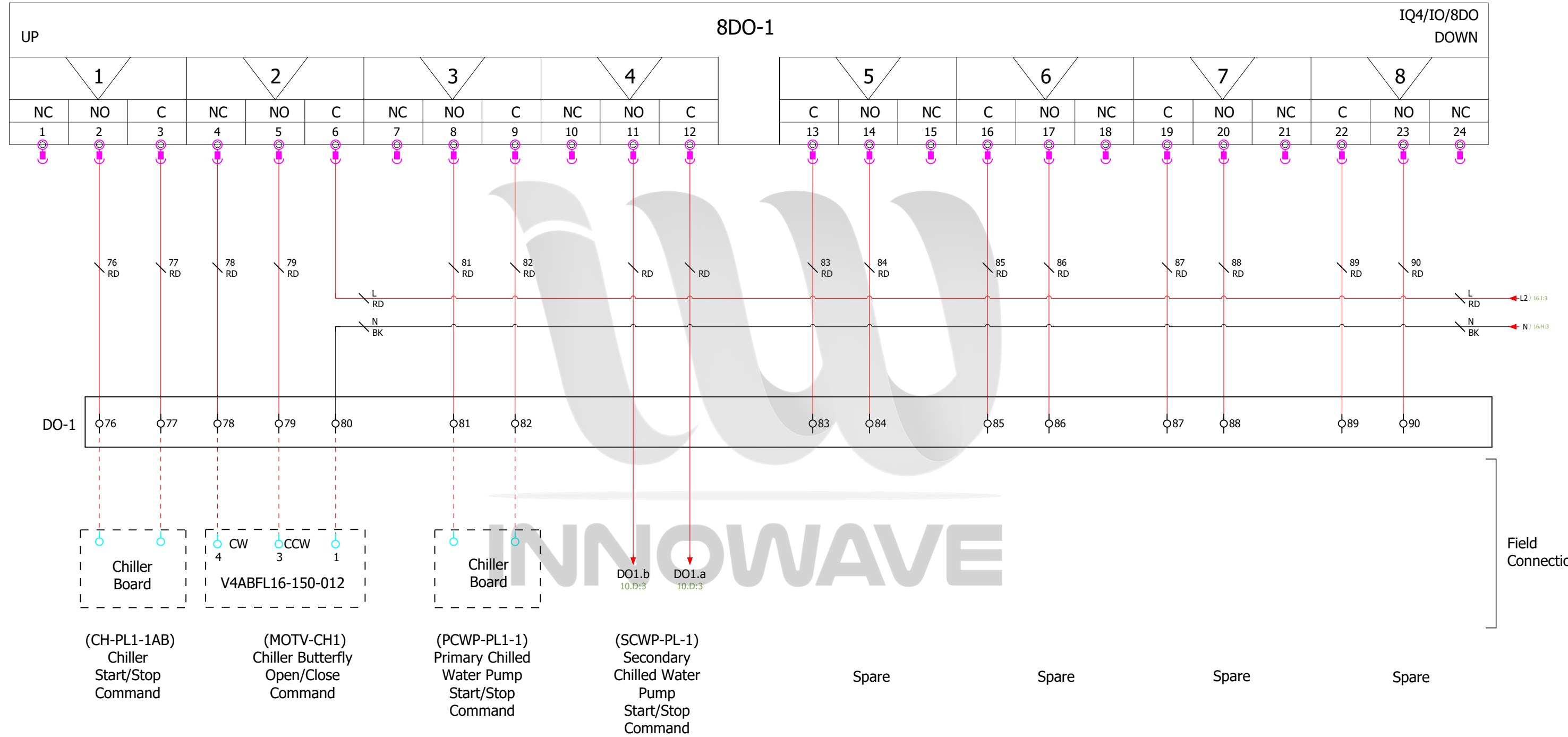
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