

	1	2	3	4	5	6	7	8	
A	=HPU 2X87KW								A

Customer : CNP Freire
Ship/Hull : MBARI
Project no. : 4/60185
Drawing no.: E-4504

Customer : CNP Freire
Ship/Hull : MBARI
Project no. : 4/60185
Drawing no.: E-4504

Customer : CNP Freire
Ship/Hull : MBARI
Project no. : 4/60185
Drawing no.: E-4504

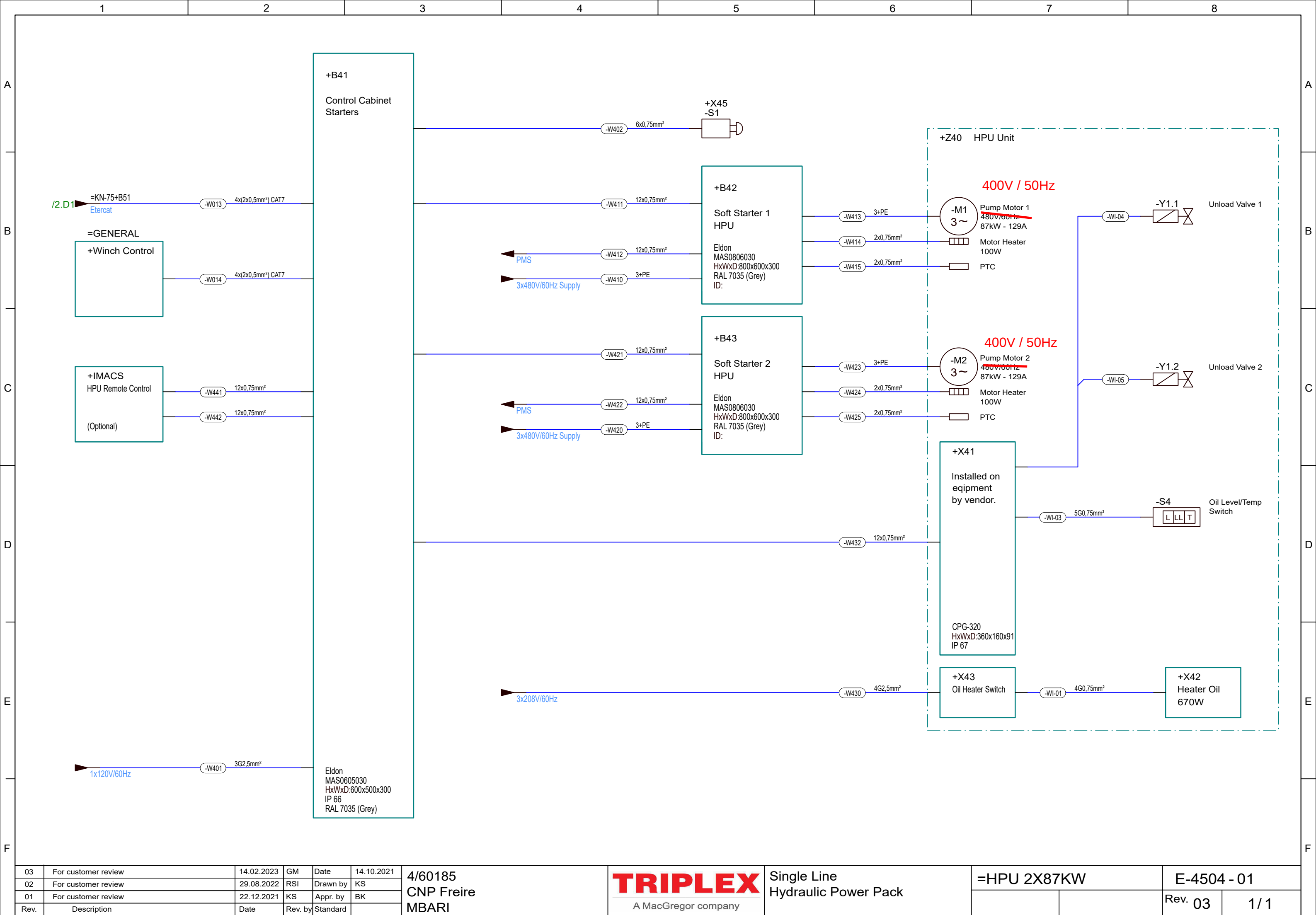
Customer : CNP Freire
Ship/Hull : MBARI
Project no. : 4/60185
Drawing no.: E-4504

D

E

F

03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Front Page Hydraulic Power Pack	=HPU 2X87KW		E-4504 - 00	
02	For customer review	29.08.2022	RSI	Drawn by	KS						Rev. 03	1 / 2
01	For customer review	22.12.2021	KS	Appr. by	BK							
Rev.	Description	Date	Rev. by	Standard								



03	For customer review	14.02.2023	GM	Date	14.10.2021
02	For customer review	29.08.2022	RSI	Drawn by	KS
01	For customer review	22.12.2021	KS	Appr. by	BK
Rev.	Description	Date	Rev. by	Standard	

4/60185
CNP Freire
MBARI

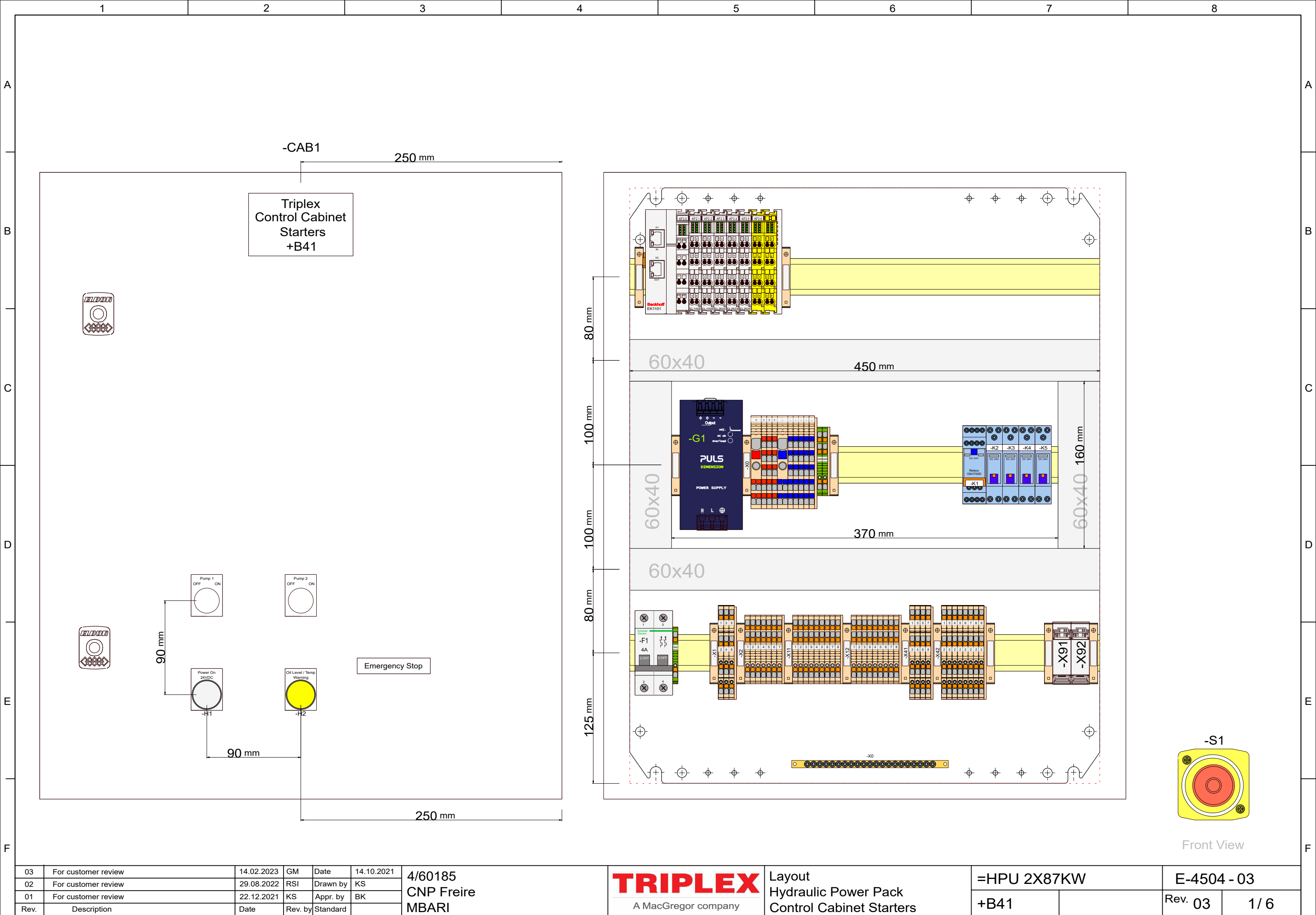
TRIPLEX
A MacGregor company

Single Line
Hydraulic Power Pack

=HPU 2X87KW

E-4504 - 01

Rev. 03 1 / 1



A

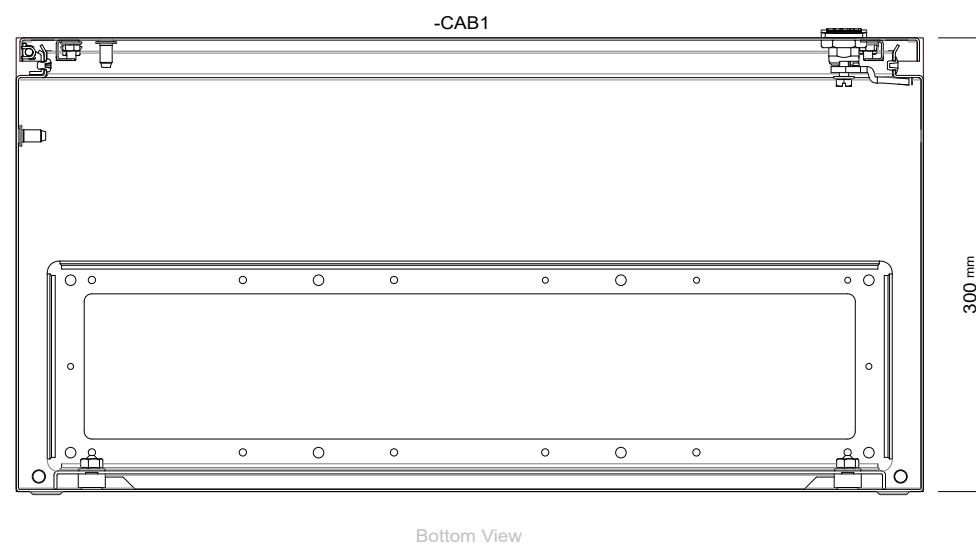
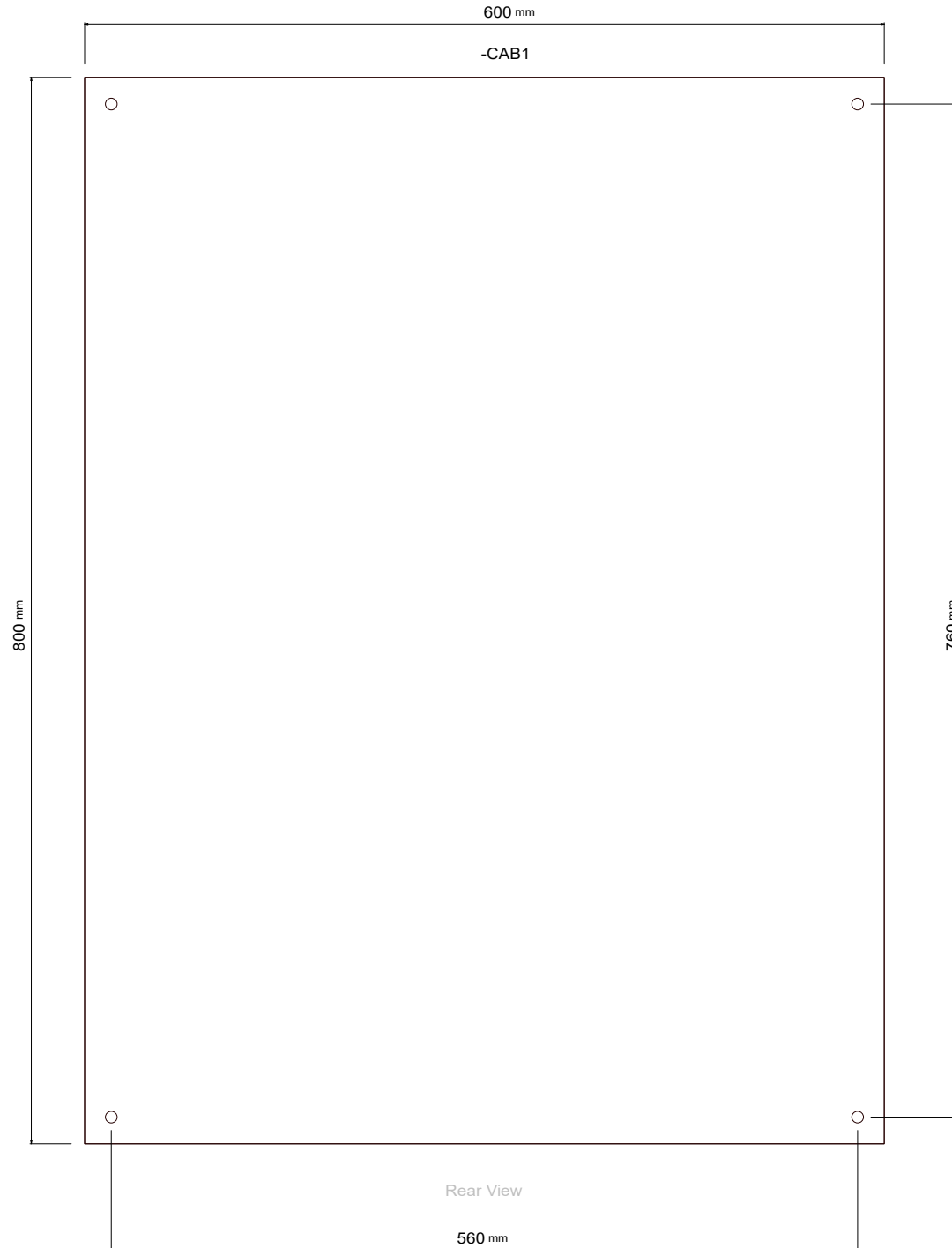
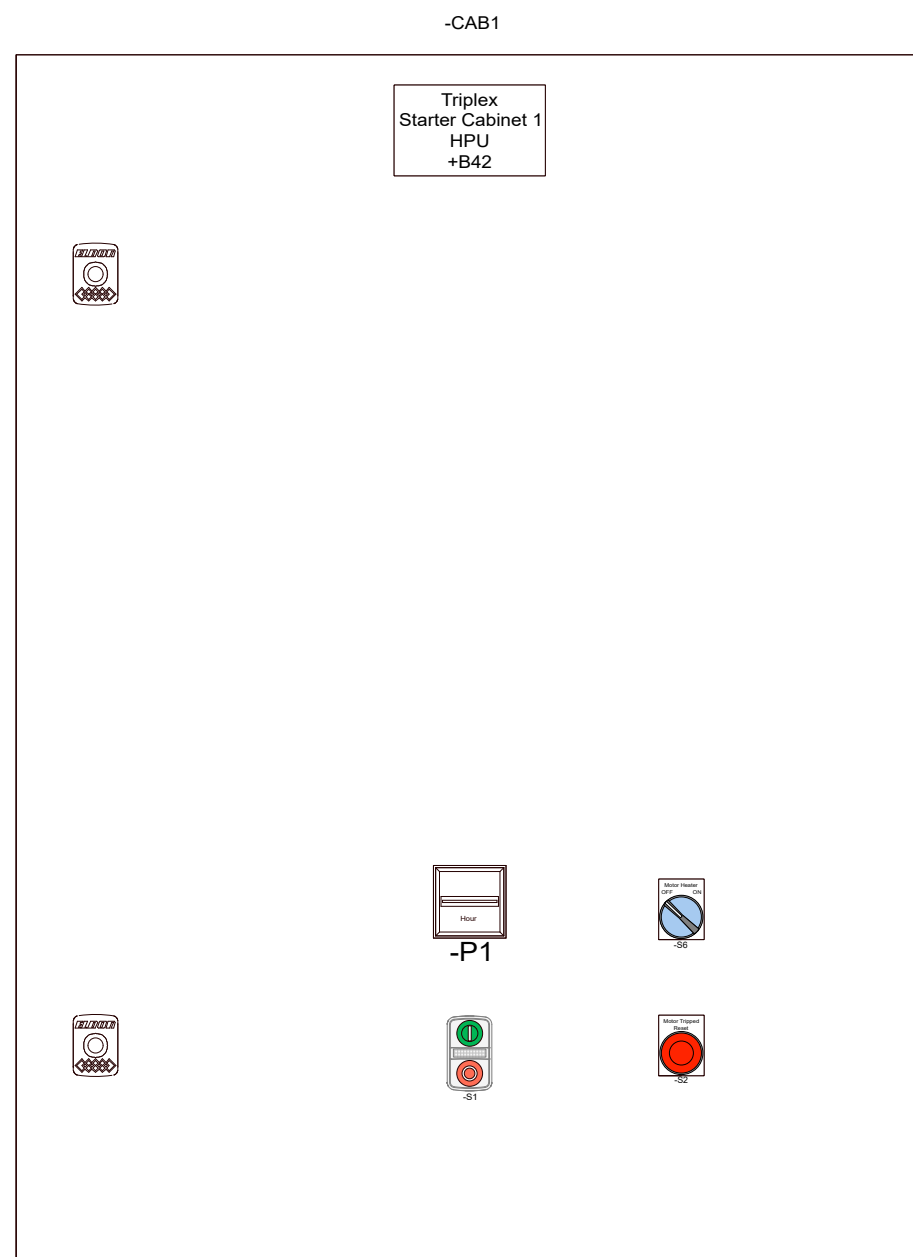
B

C

D

E

F



03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	 A MacGregor company	Layout Hydraulic Power Pack Soft Starter 1	=HPU 2X87KW		E-4504 - 03	
02	For customer review	29.08.2022	RSI	Drawn by	KS							
01	For customer review	22.12.2021	KS	Appr. by	BK							
Rev.	Description	Date	Rev. by	Standard								
									+B42		Rev. 03	2 / 6



A

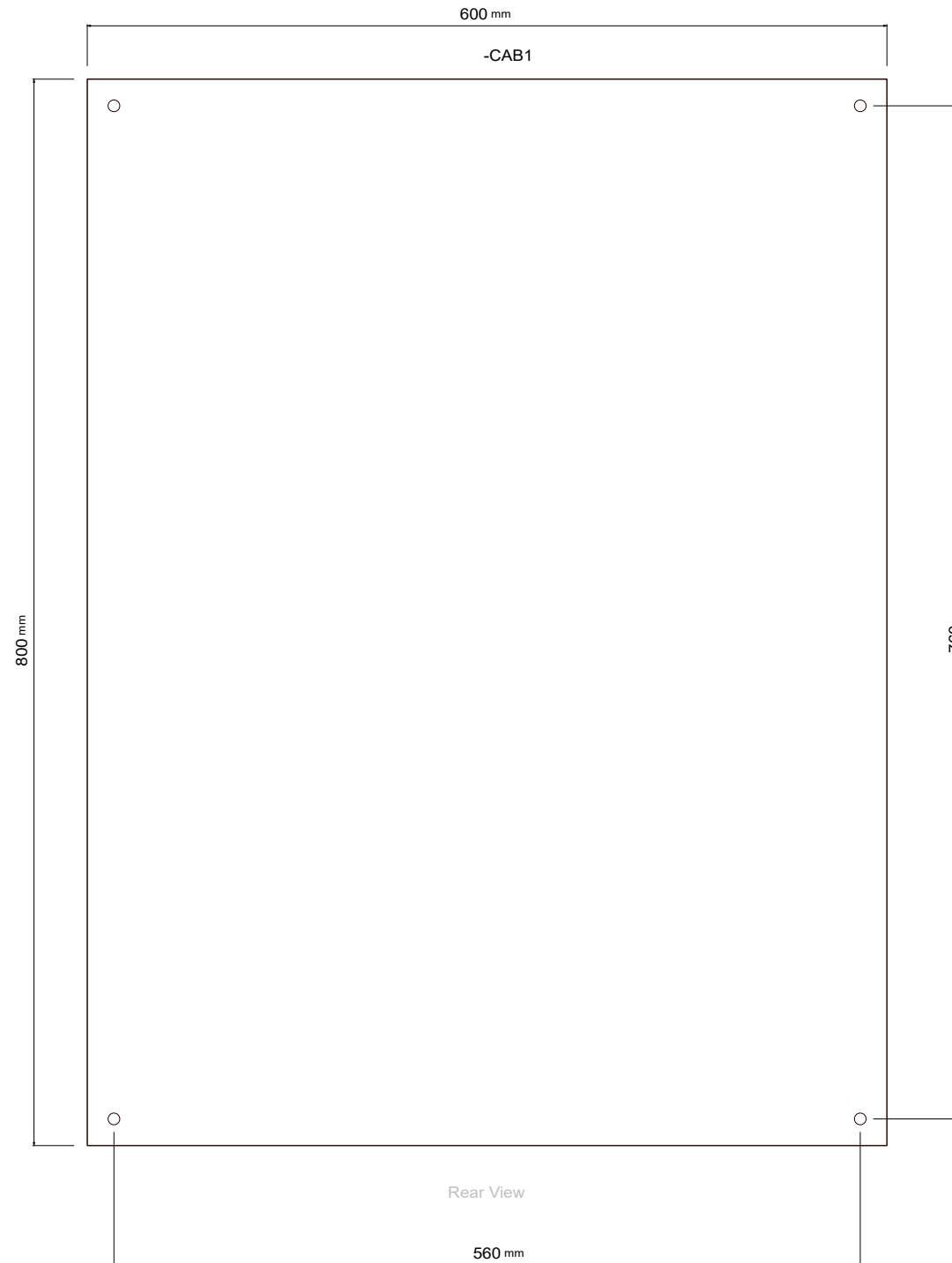
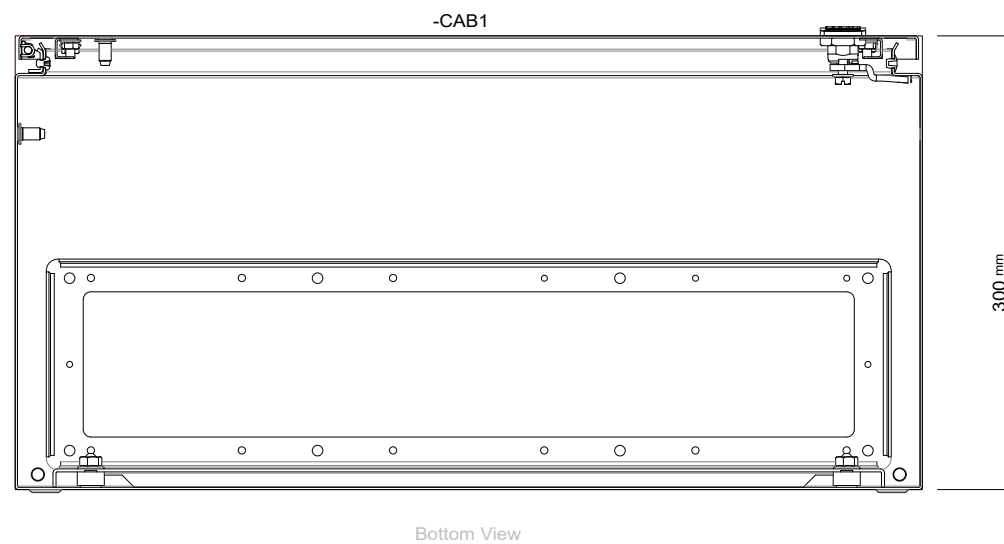
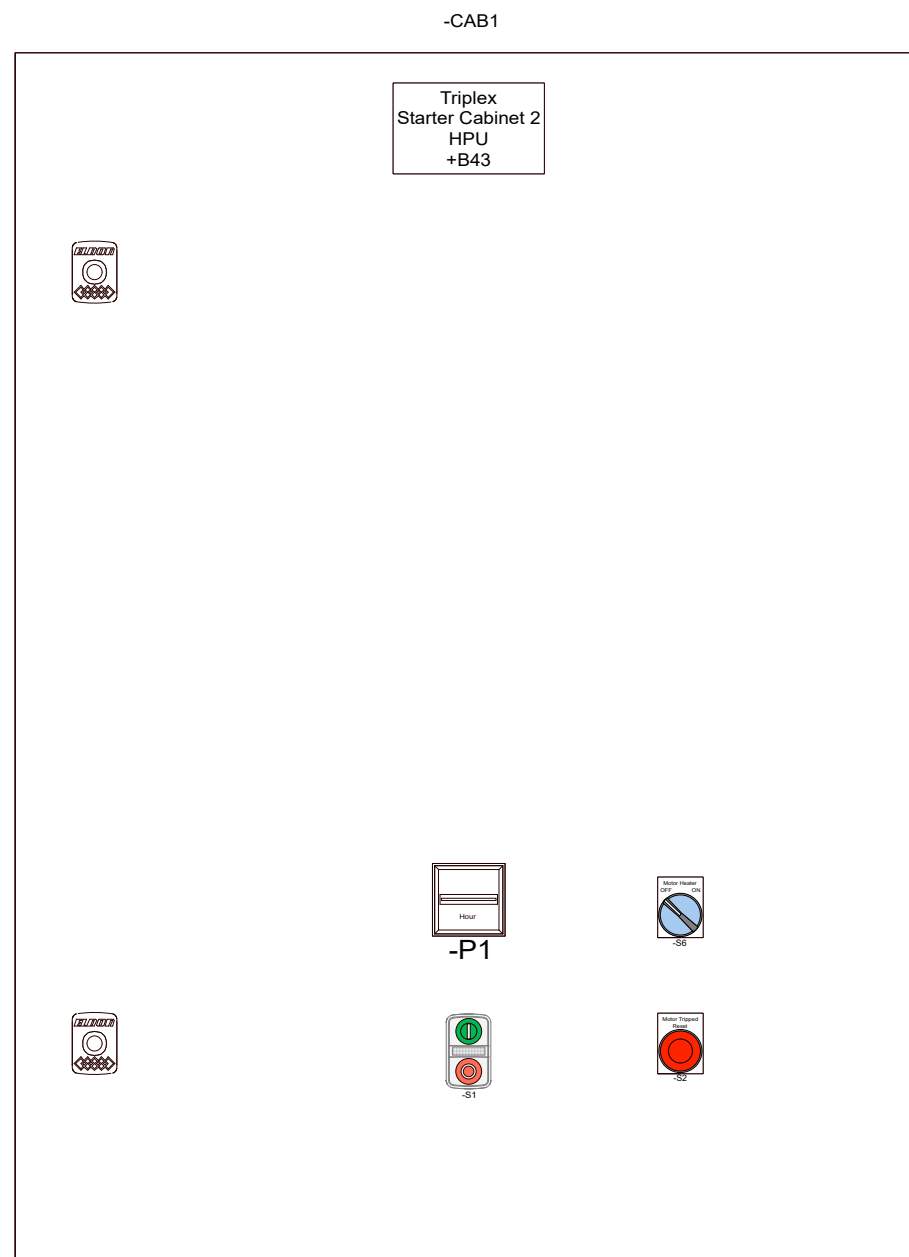
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C

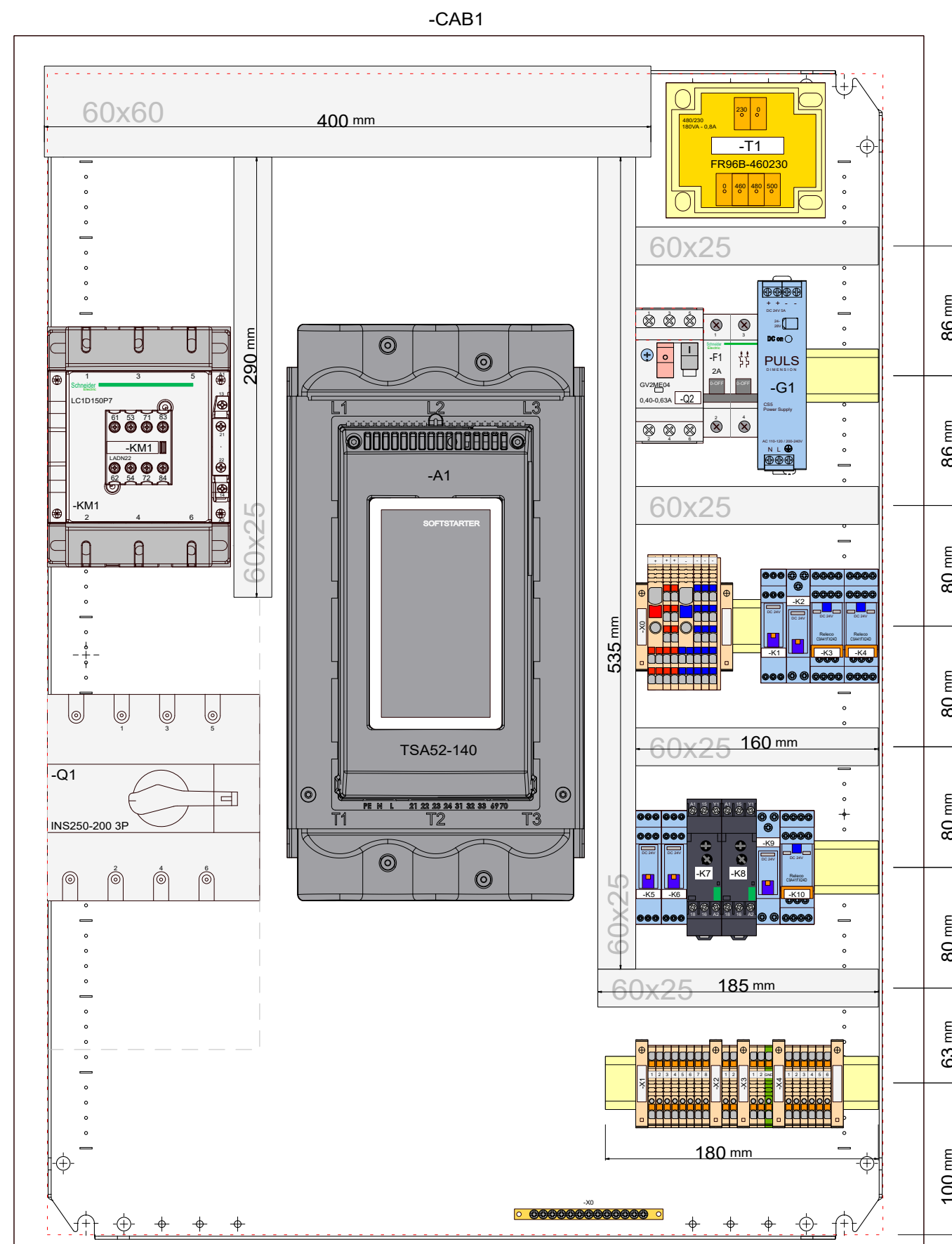
D

E

F

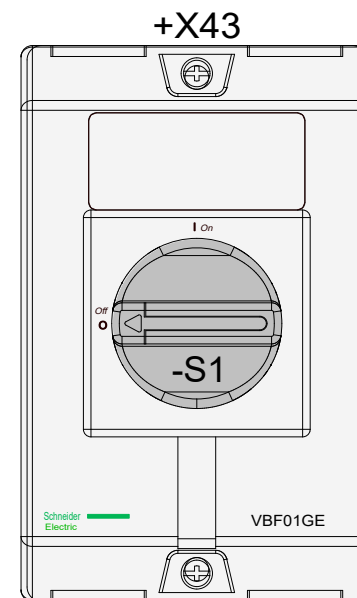


03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	 A MacGregor company	Layout Hydraulic Power Pack Soft Starter 2	=HPU 2X87KW		E-4504 - 03	
02	For customer review	29.08.2022	RSI	Drawn by	KS							
01	For customer review	22.12.2021	KS	Appr. by	BK							
Rev.	Description	Date	Rev. by	Standard								
									+B43		Rev. 03	4 / 6



03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout Hydraulic Power Pack Soft Starter 2	=HPU 2X87KW		E-4504 - 03	
02	For customer review	29.08.2022	RSI	Drawn by	KS							
01	For customer review	22.12.2021	KS	Appr. by	BK							
Rev.	Description	Date	Rev. by	Standard								
									+B43		Rev. 03	5 / 6

Triplex
Junction Box
HPU
+X41



349 mm

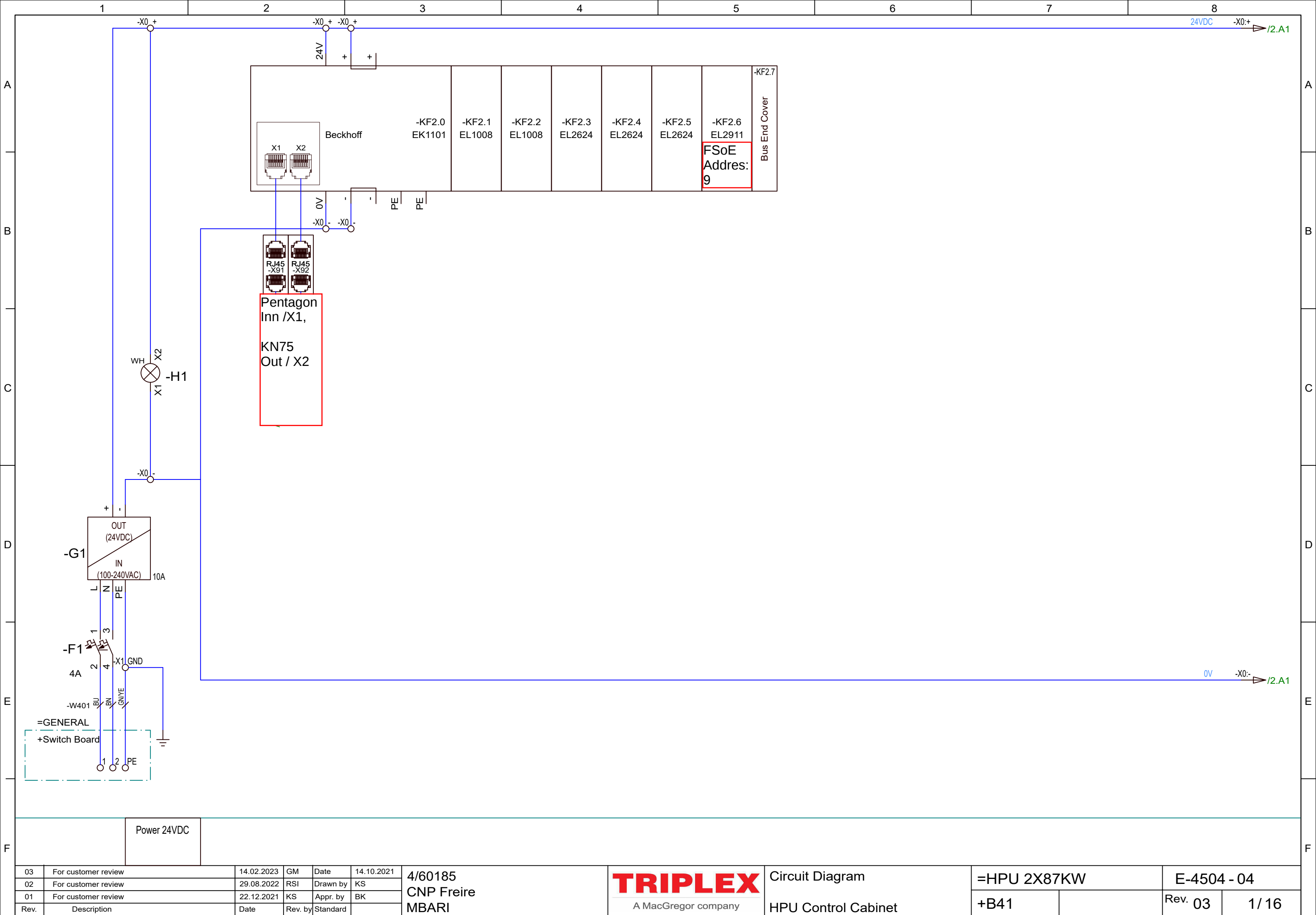
Bernstein
CPG-320
360x160x91
IP 67
RAL 7000 (Grey)

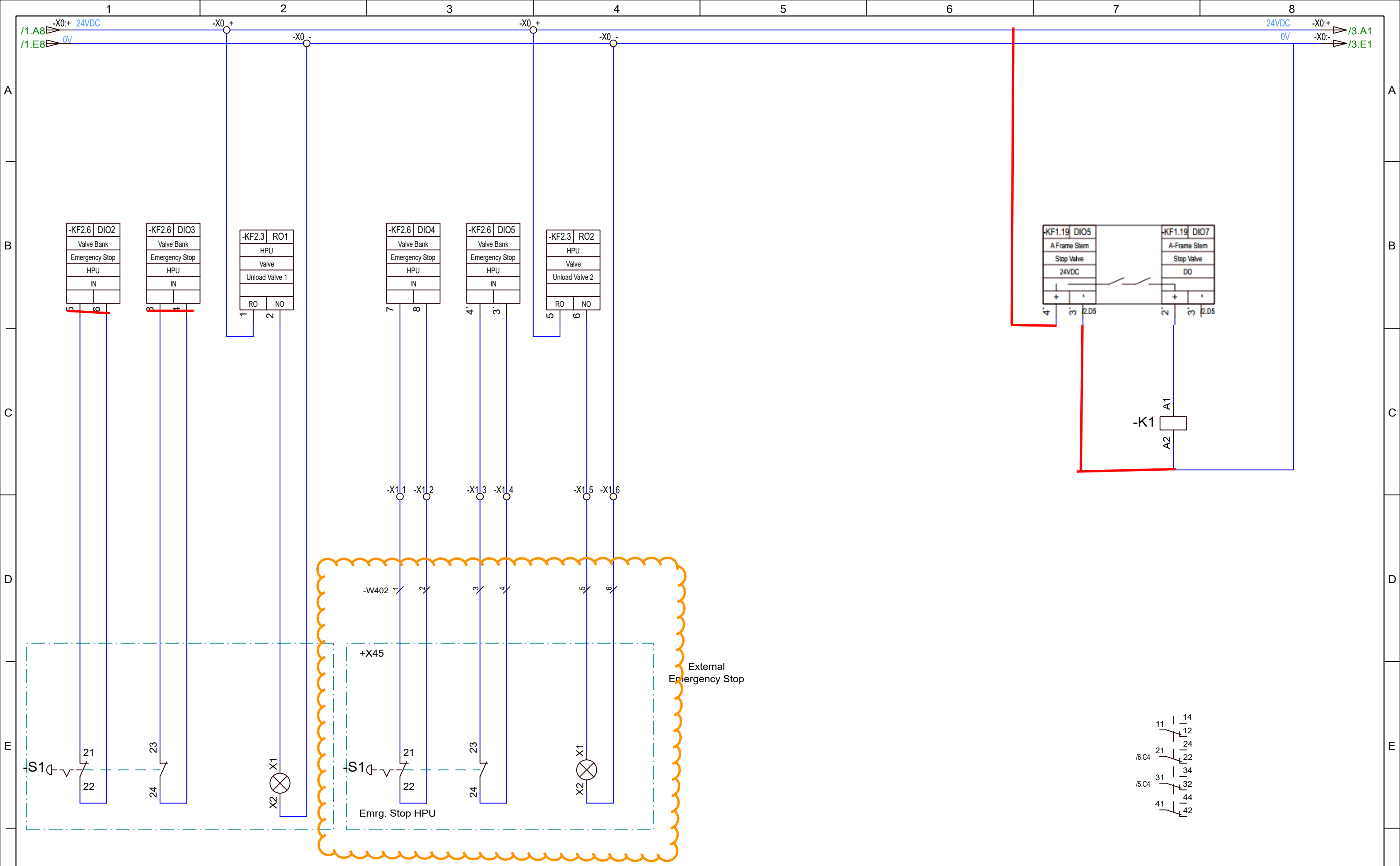
154 mm

-CAB1

87 mm

03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Layout Hydraulic Power Pack Junction Box HPU	=HPU 2X87KW		E-4504 - 03	
02	For customer review	29.08.2022	RSI	Drawn by	KS				+X41		Rev. 03	6 / 6
01	For customer review	22.12.2021	KS	Appr. by	BK							
Rev.	Description	Date	Rev. by	Standard								





F

Cabinet Door										Emergency Stop OK			
03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram Hydraulic Power Pack HPU Control Cabinet	=HPU 2X87KW		E-4504 - 04		
02	For customer review	29.08.2022	RSI	Drawn by	KS				+B41		Rev. 03	2 / 16	
01	For customer review	22.12.2021	KS	Appr. by	BK								
Rev.	Description	Date	Rev. by	Standard									

F

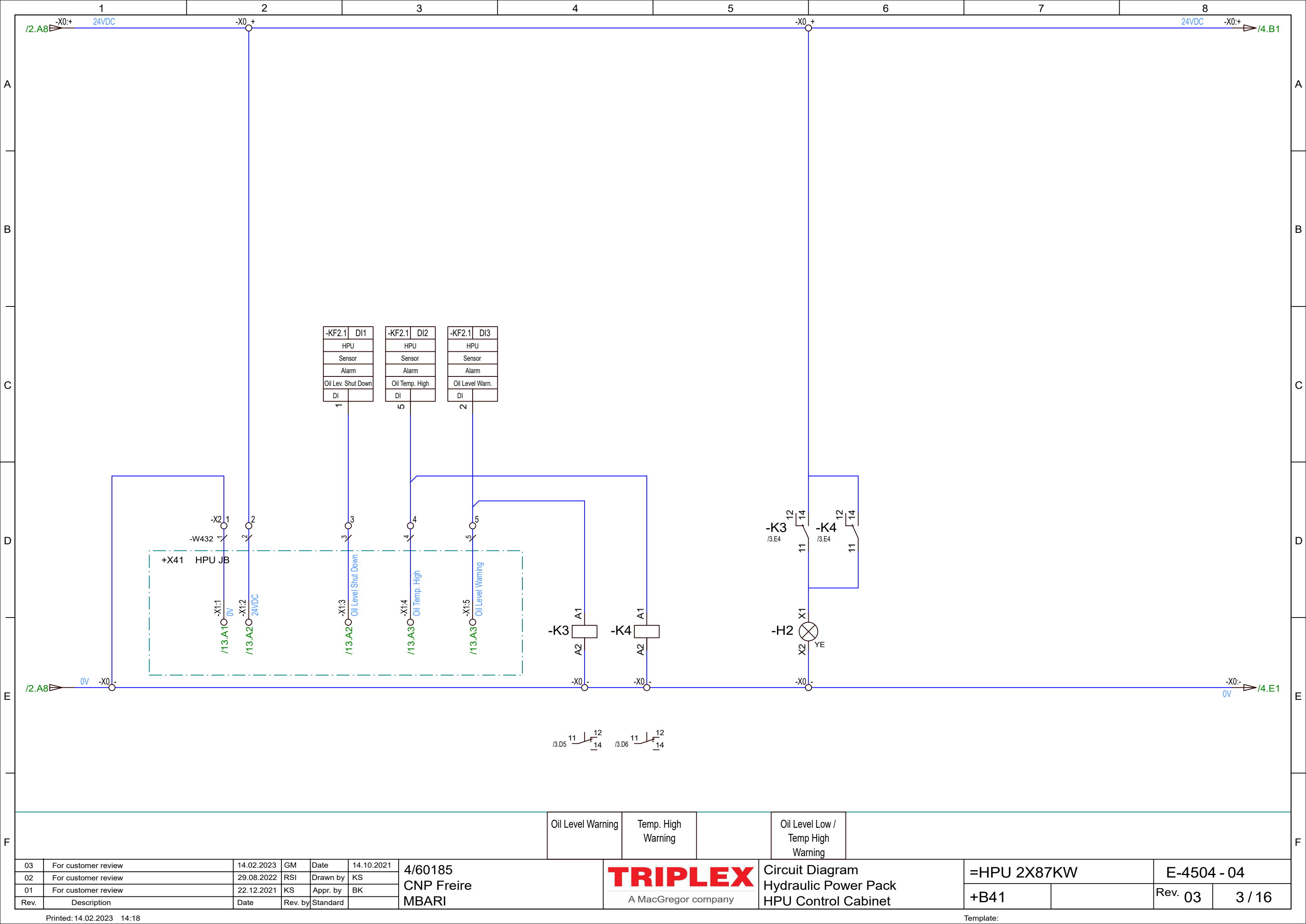


Circuit Diagram
Hydraulic Power Pack
HPU Control Cabinet

4/60185
CNP Freire
MBARI

=HPU 2X87KW
+B41

Rev. 03
2 / 16



03	For customer review	14.02.2023	GM	Date	14.10.2021
02	For customer review	29.08.2022	RSI	Drawn by	KS
01	For customer review	22.12.2021	KS	Appr. by	BK
Rev.	Description	Date	Rev. by	Standard	

4/60185
CNP Freire
MBARI

TRIPLEX
A MacGregor company

Circuit Diagram
Hydraulic Power Pack
HPU Control Cabinet

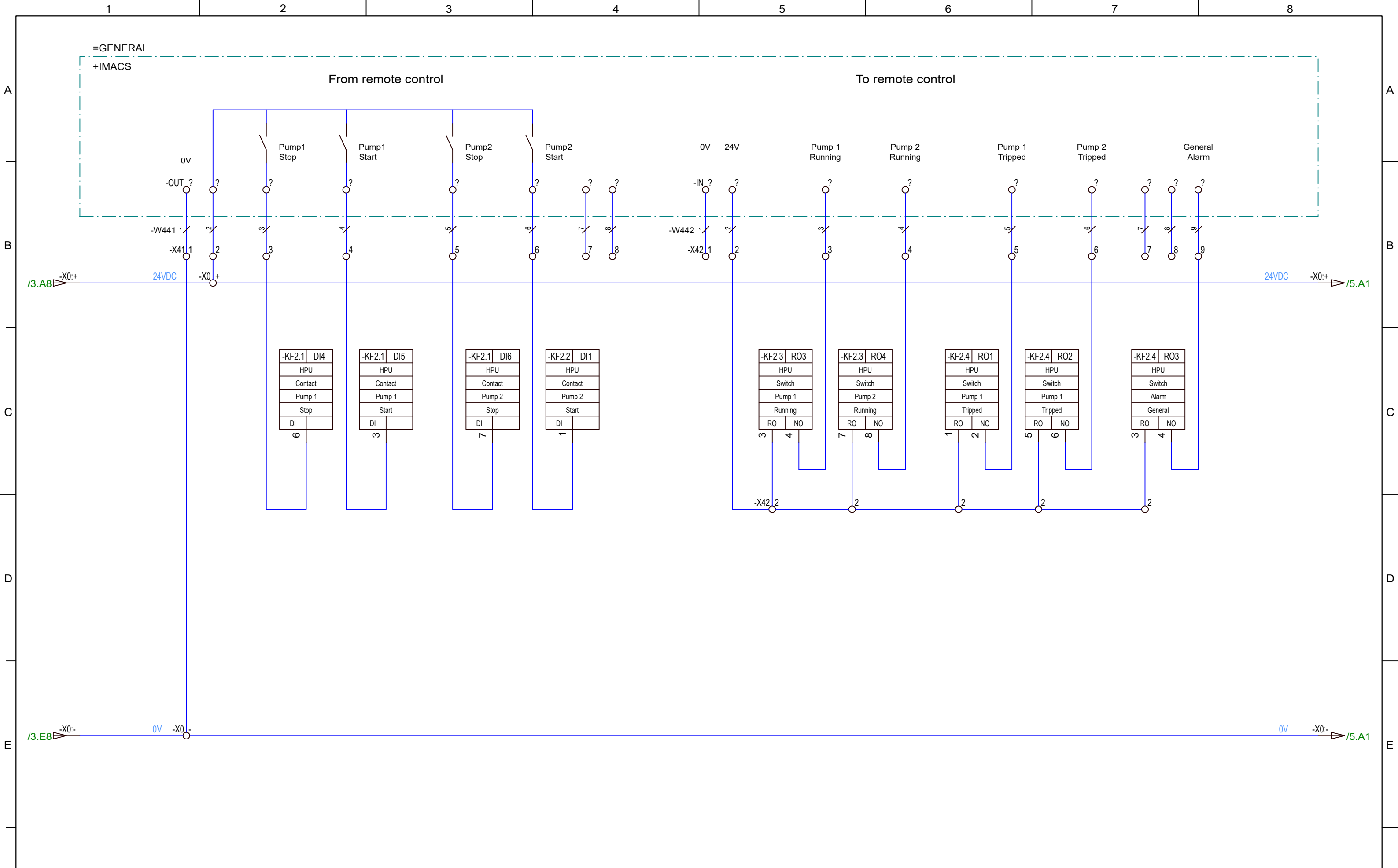
=HPU 2X87KW

+B41

E-4504 - 04

Rev. 03

3 / 16



03	For customer review	14.02.2023	GM	Date	14.10.2021
02	For customer review	29.08.2022	RSI	Drawn by	KS
01	For customer review	22.12.2021	KS	Appr. by	BK
Rev.	Description	Date	Rev. by	Standard	

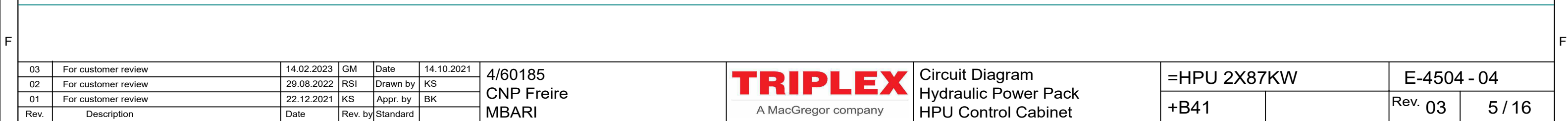
4/60185
CNP Freire
MBARI

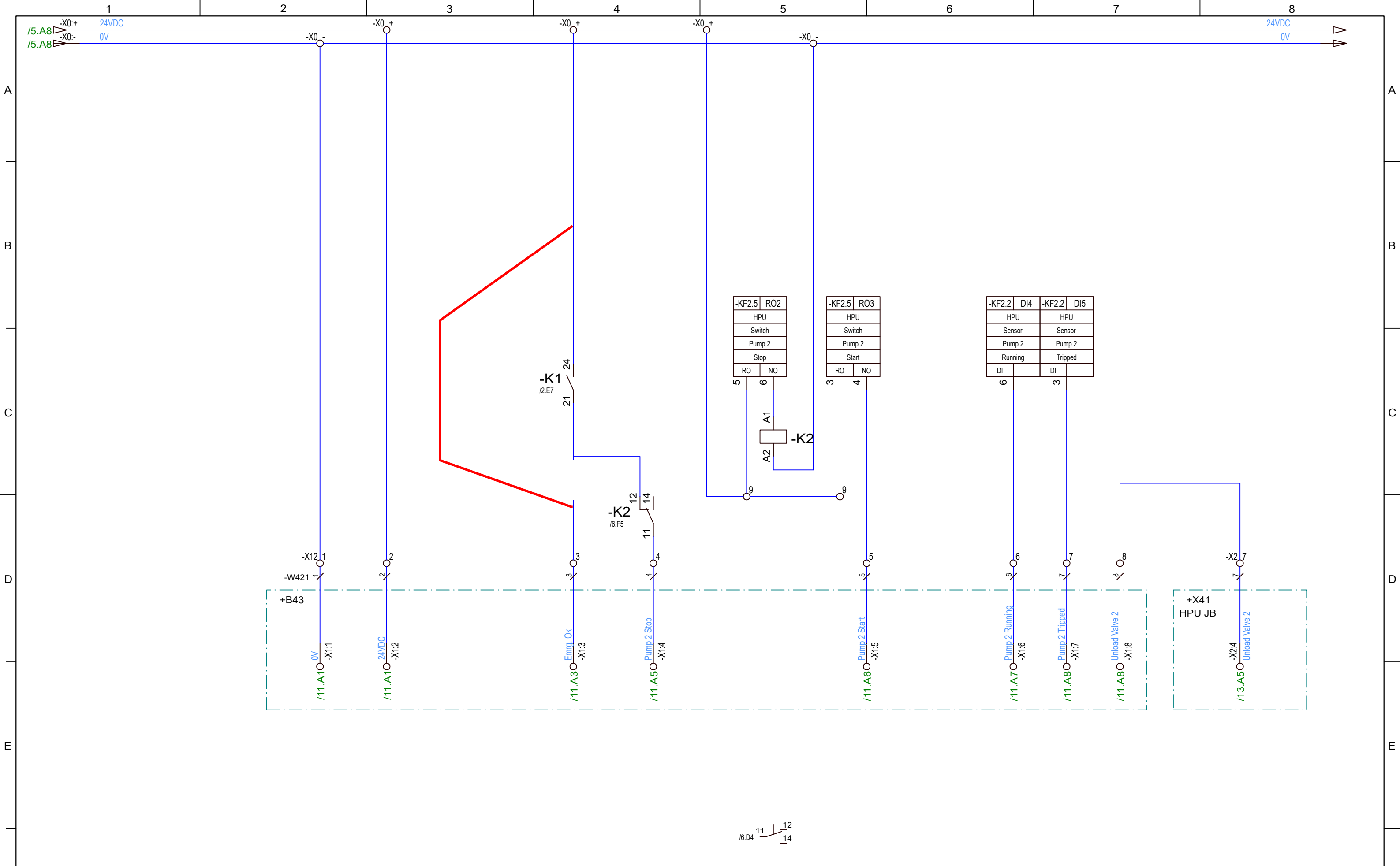


Circuit Diagram
Hydraulic Power Pack
HPU Control Cabinet

=HPU 2X87KW
+B41

E-4504 - 04
Rev. 03 4 / 16





03	For customer review	14.02.2023	GM	Date	14.10.2021
02	For customer review	29.08.2022	RSI	Drawn by	KS
01	For customer review	22.12.2021	KS	Appr. by	BK
Rev.	Description	Date	Rev. by	Standard	

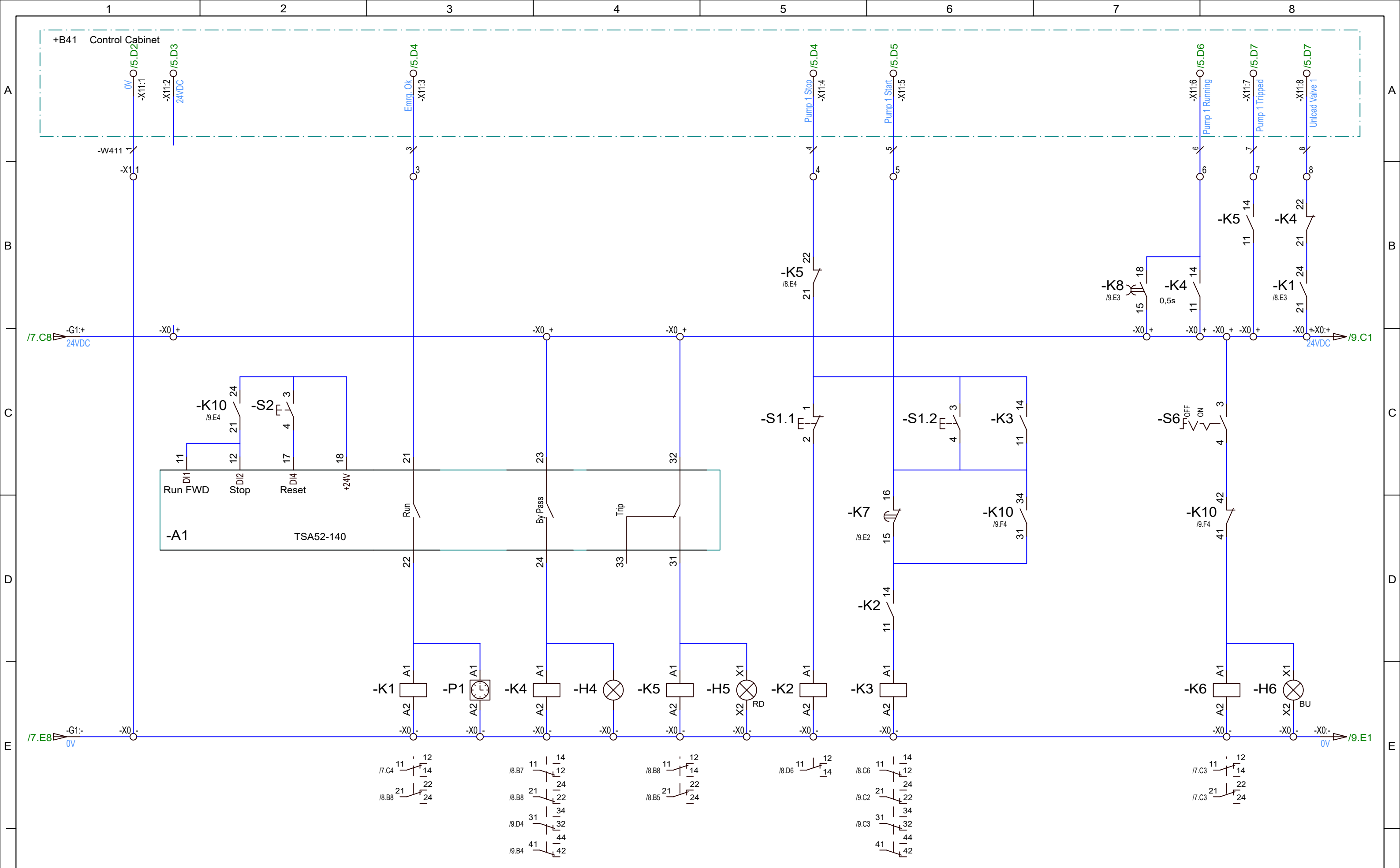
4/60185
CNP Freire
MBARI



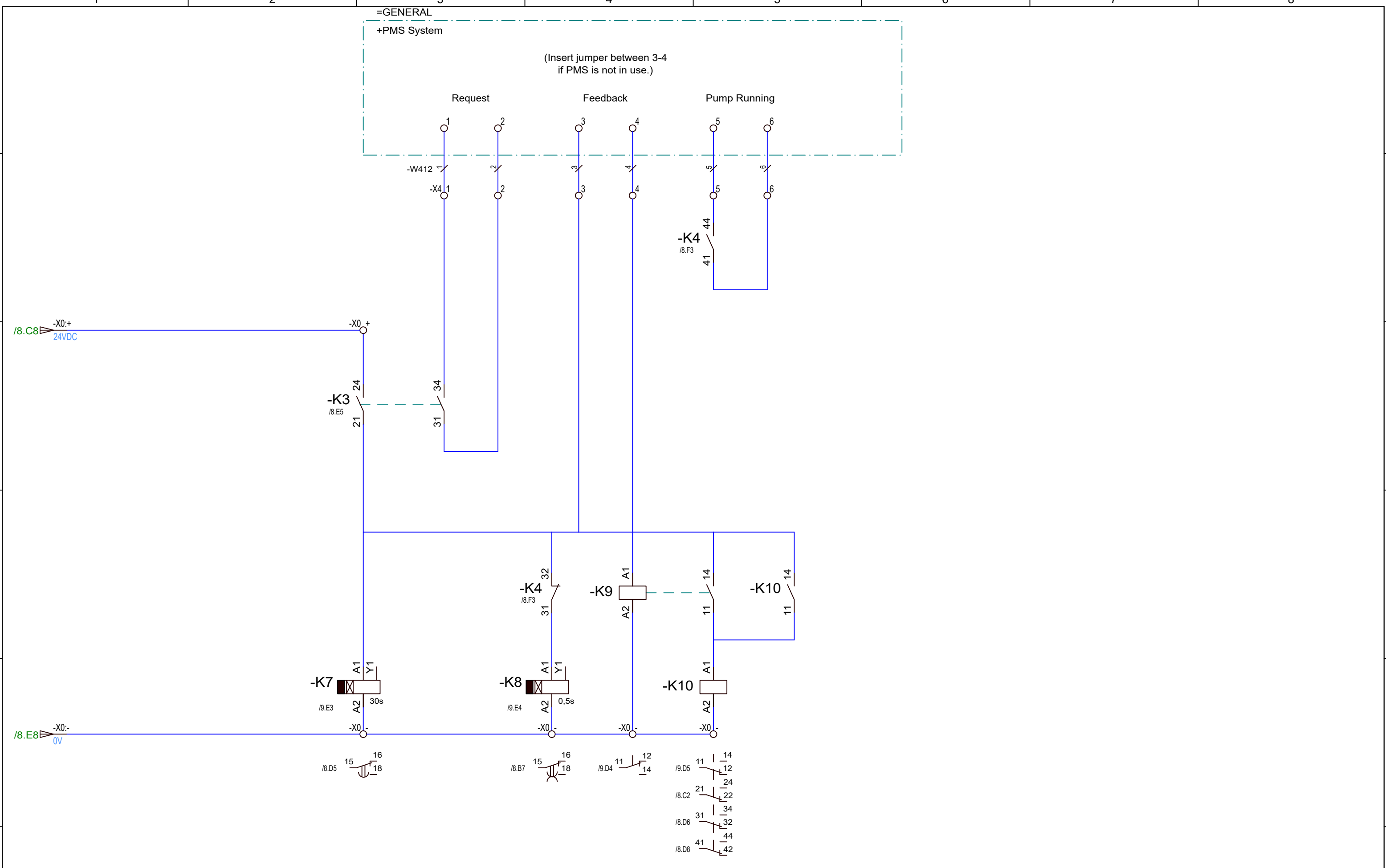
Circuit Diagram
Hydraulic Power Pack
HPU Control Cabinet

=HPU 2X87KW
+B41

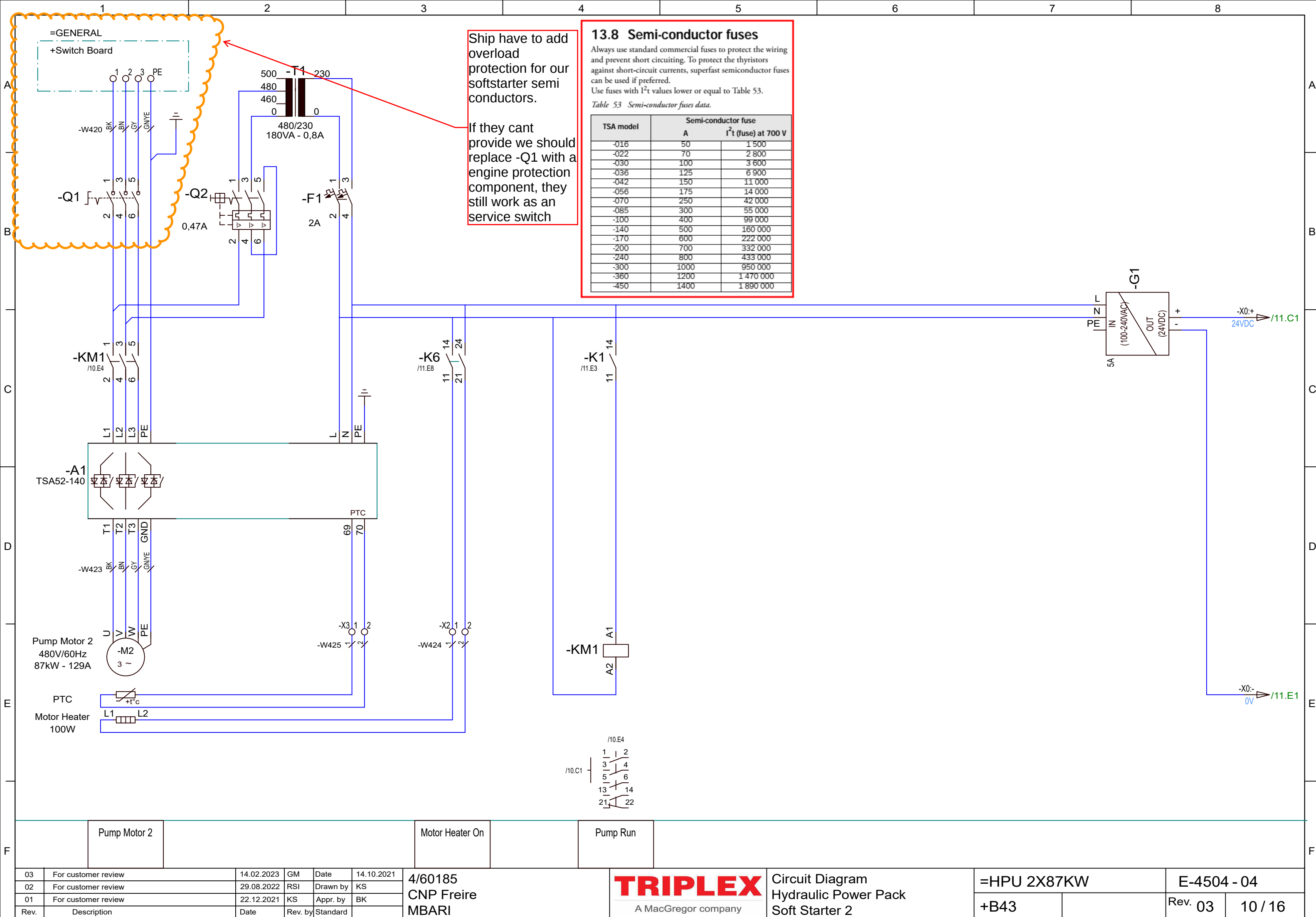
E-4504 - 04
Rev. 03

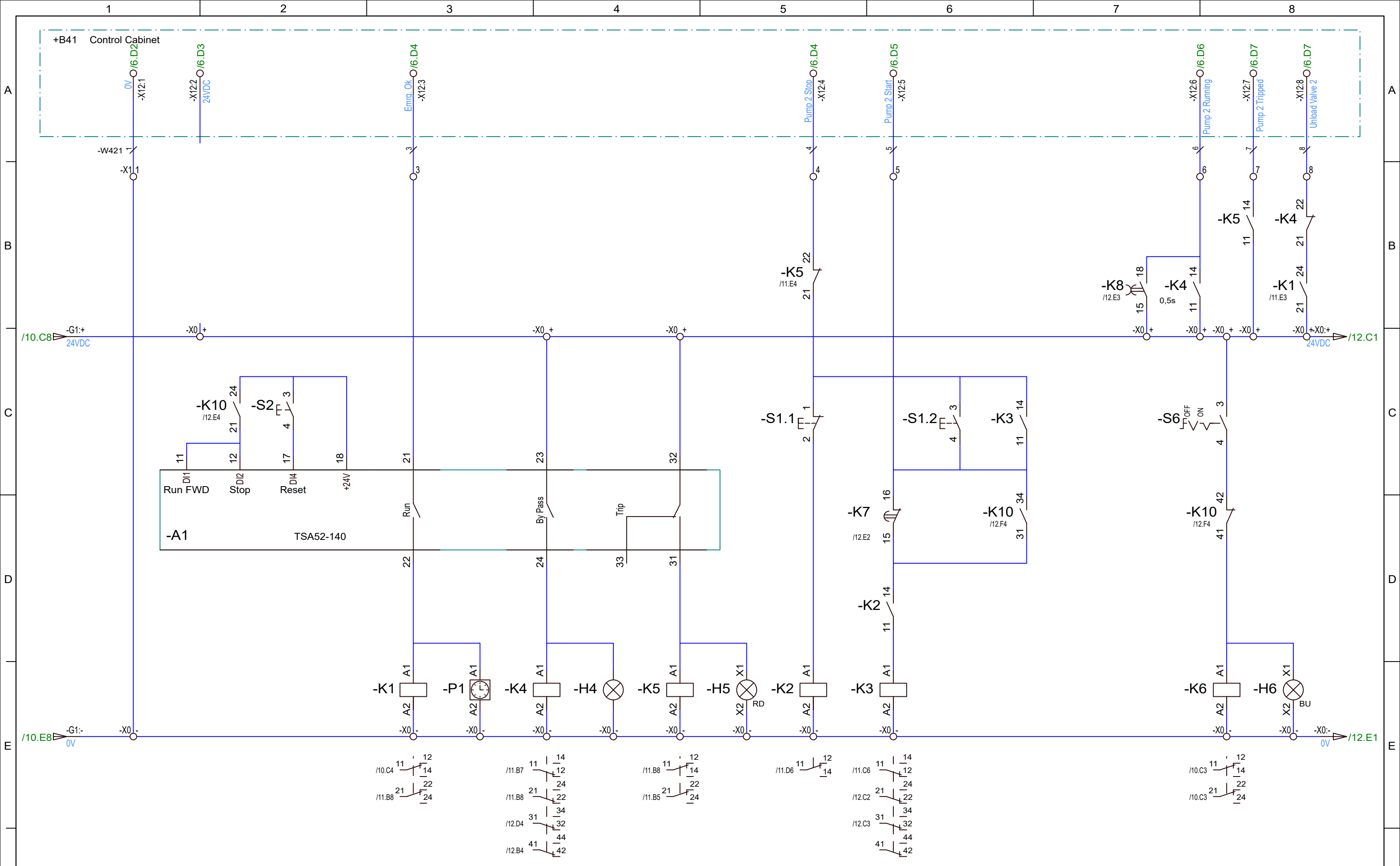


						Pump Run		Pump Running		Pump Tripped		Pump Stop	Pump Start Request				Motor Heater	
03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram Hydraulic Power Pack Soft Starter 1	=HPU 2X87KW		E-4504 - 04							
02	For customer review	29.08.2022	RSI	Drawn by	KS				+B42		Rev. 03	8 / 16						
01	For customer review	22.12.2021	KS	Appr. by	BK													
Rev.	Description	Date	Rev. by	Standard														

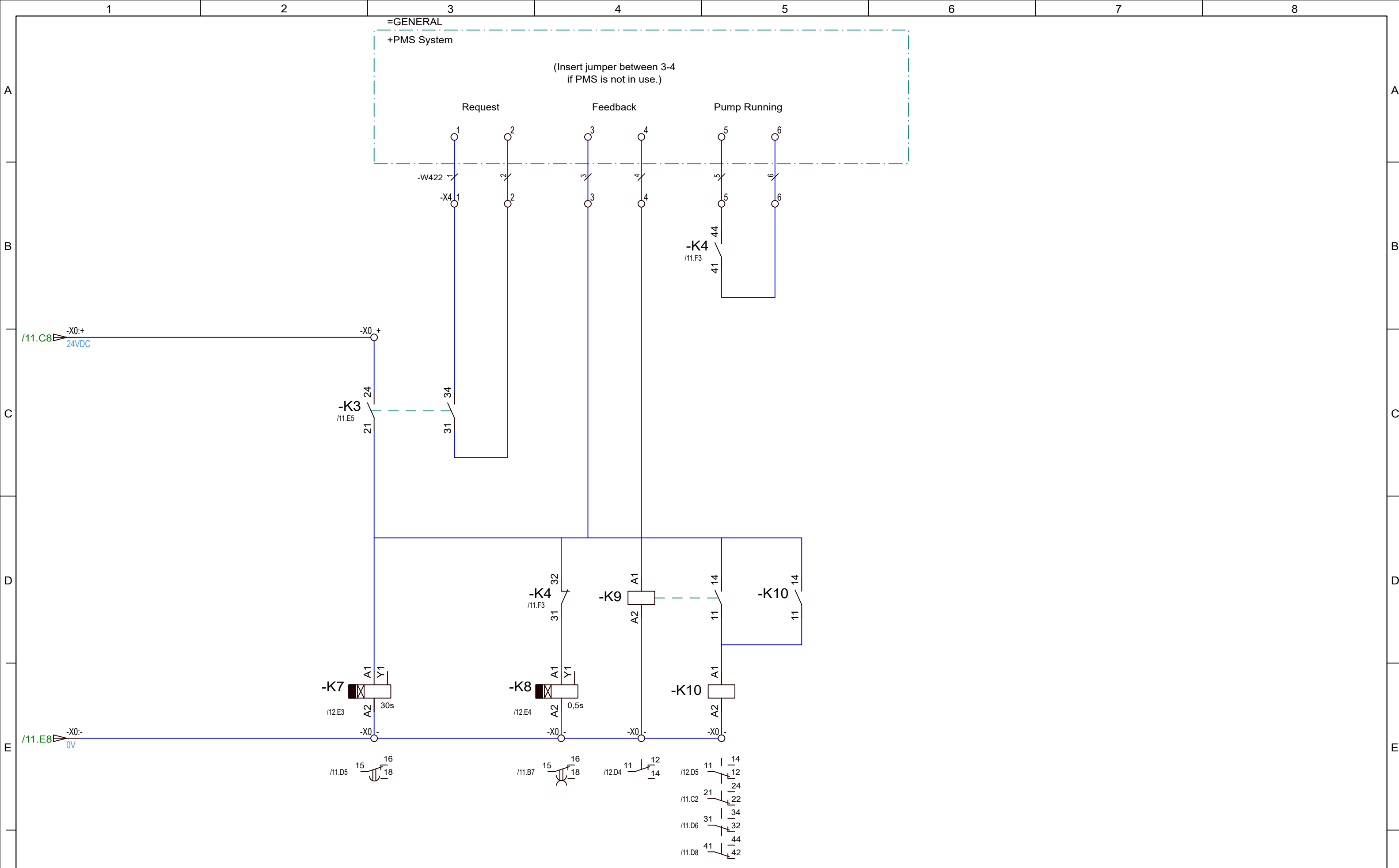


				PMS Request Timer			PMS Request Blink	PMS Request Approved	Pump Start						
03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram Hydraulic Power Pack Soft Starter 1	=HPU 2X87KW		E-4504 - 04				
02	For customer review	29.08.2022	RSI	Drawn by	KS										
01	For customer review	22.12.2021	KS	Appr. by	BK										
Rev.	Description	Date	Rev. by	Standard											



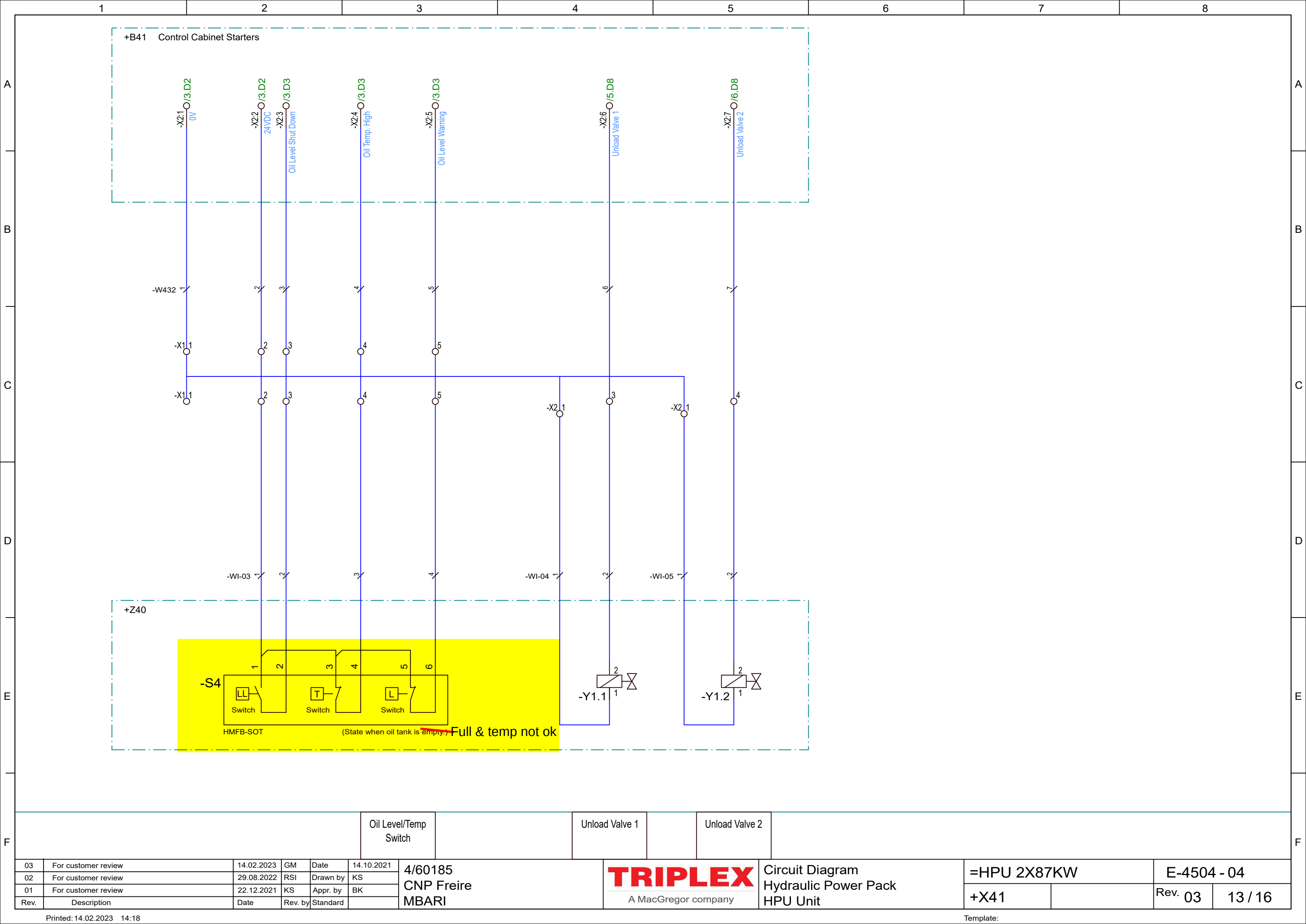


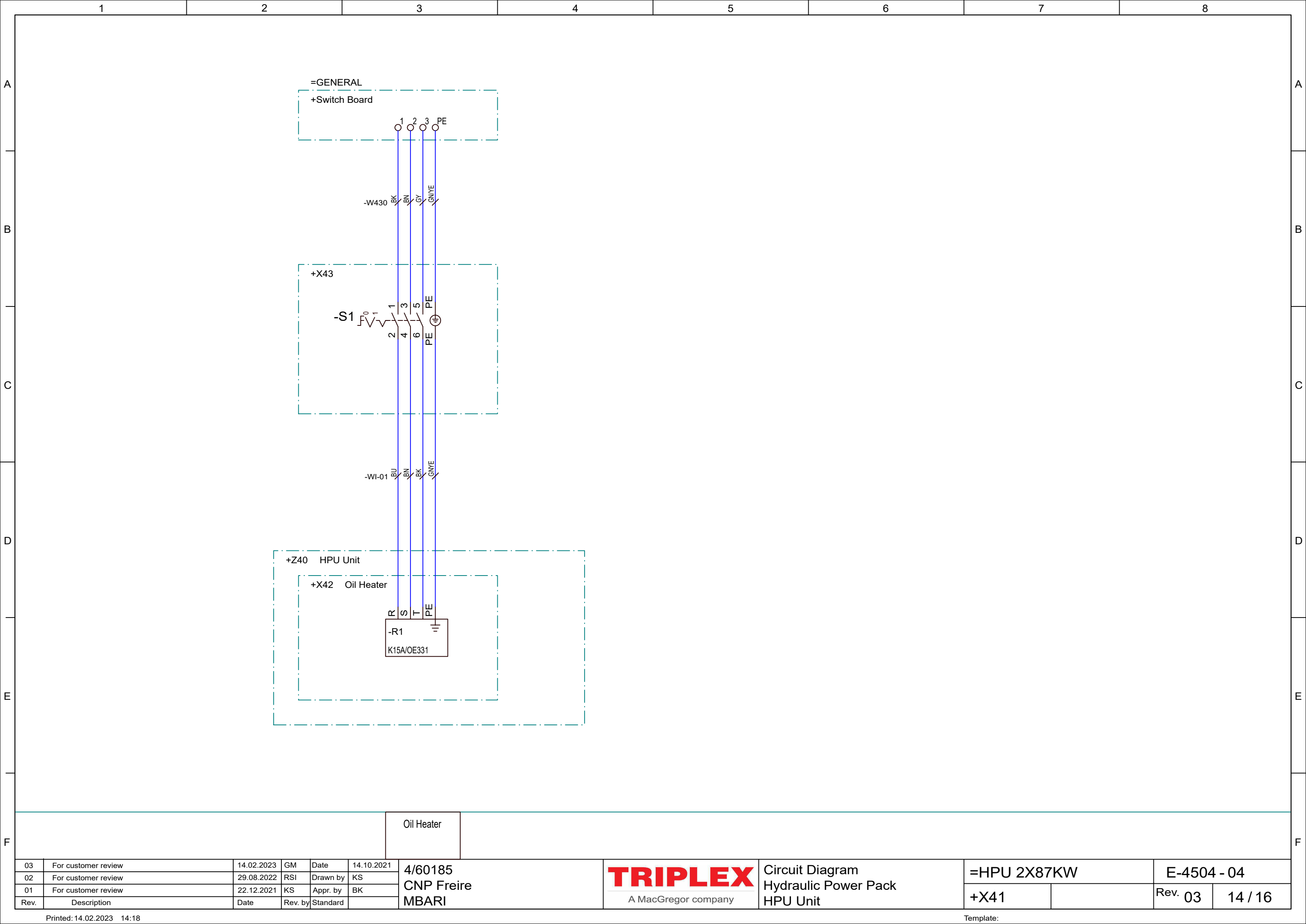
						Pump Run		Pump Running		Pump Tripped		Pump Stop	Pump Start Request		Motor Heater	
03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram Hydraulic Power Pack Soft Starter 2	=HPU 2X87KW		E-4504 - 04					
02	For customer review	29.08.2022	RSI	Drawn by	KS				+B43		Rev. 03	11 / 16				
01	For customer review	22.12.2021	KS	Appr. by	BK											
Rev.	Description	Date	Rev. by	Standard												



F					PMS Request Timer			PMS Request Blink	PMS Request Approved	Pump Start						
	03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram Hydraulic Power Pack Soft Starter 2	=HPU 2X87KW		E-4504 - 04				
	02	For customer review	29.08.2022	RSI	Drawn by	KS										
	01	For customer review	22.12.2021	KS	Appr. by	BK										
	Rev.	Description	Date	Rev. by	Standard											
										+B43		Rev. 03	12 / 16			

F

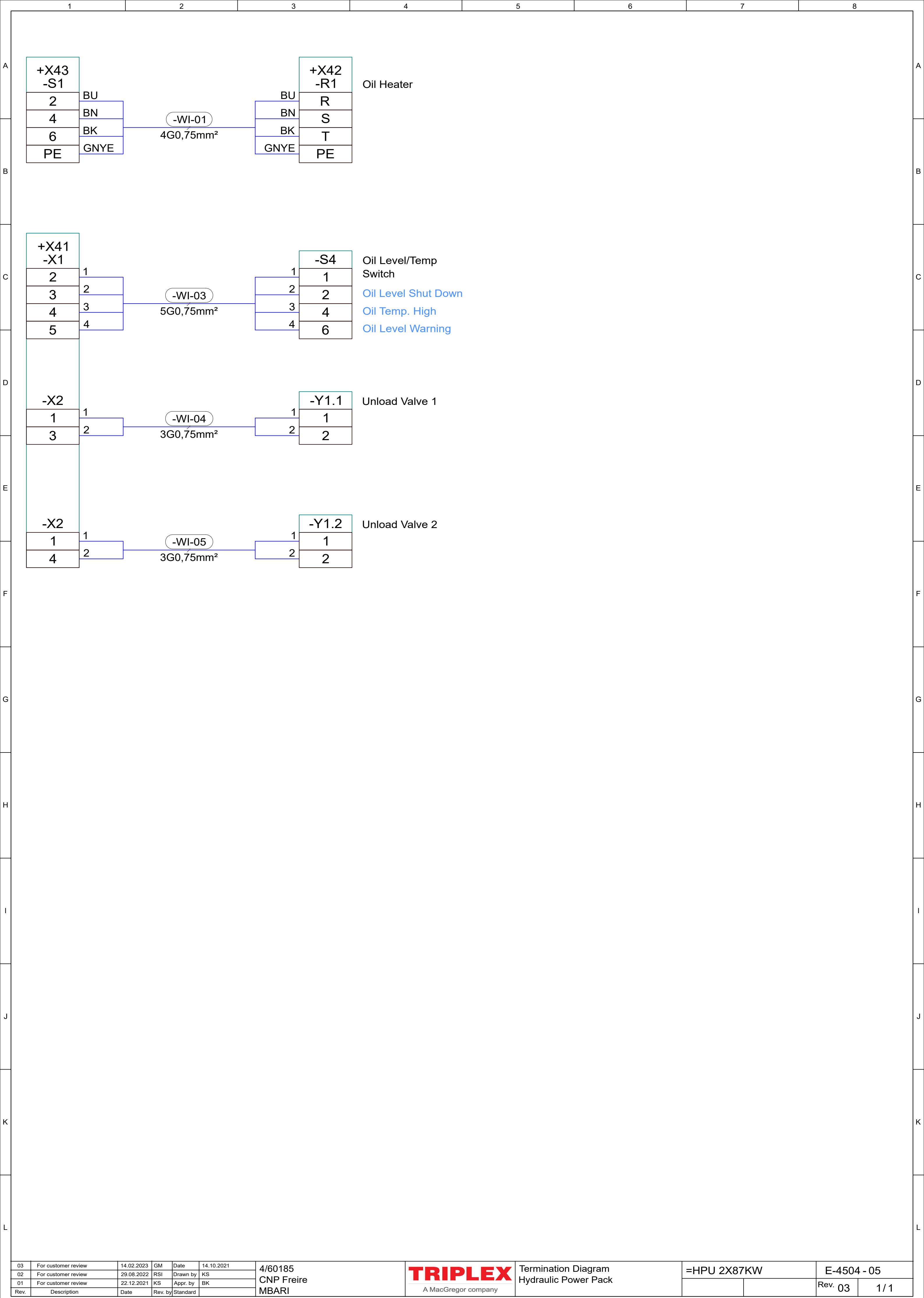




-KF2.1 Beckhoff EL1008									
Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal
1	Digital Input	DI1	/3.C3	HPU	Sensor	Alarm	Oil Lev. Shut Down	DI	
5	Digital Input	DI2	/3.C3	HPU	Sensor	Alarm	Oil Temp. High	DI	
2	Digital Input	DI3	/3.C3	HPU	Sensor	Alarm	Oil Level Warn.	DI	
6	Digital Input	DI4	/4.C2	HPU	Contact	Pump 1	Stop	DI	
3	Digital Input	DI5	/4.C3	HPU	Contact	Pump 1	Start	DI	
7	Digital Input	DI6	/4.C3	HPU	Contact	Pump 2	Stop	DI	
4	Digital Input	DI7						DI	
8	Digital Input	DI8						DI	
-KF2.2 Beckhoff EL1008									
Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal
1	Digital Input	DI1	/4.C4	HPU	Contact	Pump 2	Start	DI	
5	Digital Input	DI2	/5.C6	HPU	Sensor	Pump 1	Running	DI	
2	Digital Input	DI3	/5.C7	HPU	Sensor	Pump 1	Tripped	DI	
6	Digital Input	DI4	/6.C6	HPU	Sensor	Pump 2	Running	DI	
3	Digital Input	DI5	/6.C7	HPU	Sensor	Pump 2	Tripped	DI	
7	Digital Input	DI6						DI	
4	Digital Input	DI7						DI	
8	Digital Input	DI8						DI	

-KF2.3 Beckhoff EL2624									
Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal
1	Com	RO1	/2.C2	HPU	Valve	Unload Valve 1		RO	NO
2	Relay Output NO								
5	Com	RO2	/2.C4	HPU	Valve	Unload Valve 2		RO	NO
6	Relay Output NO								
3	Com	RO3	/4.C5	HPU	Switch	Pump 1	Running	RO	NO
4	Relay Output NO								
7	Com	RO4	/4.C5	HPU	Switch	Pump 2	Running	RO	NO
8	Relay Output NO								
-KF2.4 Beckhoff EL2624									
Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal
1	Com	RO1	/4.C6	HPU	Switch	Pump 1	Tripped	RO	NO
2	Relay Output NO								
5	Com	RO2	/4.C7	HPU	Switch	Pump 1	Tripped	RO	NO
6	Relay Output NO								
3	Com	RO3	/4.C7	HPU	Switch	Alarm	General	RO	NO
4	Relay Output NO								
7	Com	RO4	/5.C5	HPU	Switch	Pump 1	Stop	RO	NO
8	Relay Output NO								
-KF2.5 Beckhoff EL2624									
Pin	Pin Description	IO Type	Ref	IO Device Location	IO Device Type	IO Function Target	IO Function	IO Used	Signal
1	Com	RO1	/5.C5	HPU	Switch	Pump 1	Start	RO	NO
2	Relay Output NO								
5	Com	RO2	/6.C5	HPU	Switch	Pump 2	Stop	RO	NO
6	Relay Output NO								
3	Com	RO3	/6.C5	HPU	Switch	Pump 2	Start	RO	NO
4	Relay Output NO								
7	Com	RO4						RO	NO
8	Relay Output NO								

03	For customer review	14.02.2023	GM	Date	14.10.2021	4/60185 CNP Freire MBARI	TRIPLEX A MacGregor company	Circuit Diagram Hydraulic Power Pack IO List	=HPU 2X87KW		E-4504 - 04	
02	For customer review	29.08.2022	RSI	Drawn by	KS				+B41		Rev. 03	16 / 16
01	For customer review	22.12.2021	KS	Appr. by	BK							
Rev.	Description	Date	Rev. by	Standard								



1		2		3		4		5		6		7		8							
A	Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link				
	-WI-01		ROFLEX 4G0.75		07915027				1		Pcs		CABLE, 4G0,75mm²		Lapp						
	-WI-03		ØLFLEX FD 855 CP 5G0.75		400115191				1		Pcs		CABLE, 5x0,75mm², SHIELDED		Lapp						
	-WI-04,-WI-05		7074-18021-2360500		07930051				2		Pcs		CONNECTOR, VALVE, MURR, 5M, SS		Murr						
B																					
C																					
D																					
E																					
F																					
03		For customer review		14.02.2023		GM		Date		14.10.2021		4/60185 CNP Freire MBARI		TRIPLEX A MacGregor company		Part List Hydraulic Power Pack		=HPU 2X87KW		E-4504 - 07	
02		For customer review		29.08.2022		RSI		Drawn by		KS											
01		For customer review		22.12.2021		KS		Appr. by		BK											
Rev.		Description		Date		Rev. by		Standard								Rev. 03		1 / 10			

1		2		3		4		5		6		7		8						
Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link				
-CAB1		ADO201		07939034		24 138 75		1		Pcs		CABINET, DOORSTOPPER, ADO, ELDON		Eldon						
-CAB1		MAS0605030		400089006		24 174 95		1		Pcs		CABINET, 600x500x300 ELDON*		Eldon						
-DUCT1..-DUCT5		HA760040		07920015		12 857 18		1.42		M		CABLE TRAY, 60X40, GREY, W/LID		Tehalit Hager						
-F1		C60H/C 04-2		07938005		16 760 63		1		Pcs		SIKRING AUTOMAT 4A, 2-POL		Schneider						
-G1		CS10.241		07949016		66 040 29		1		Pcs		POWER SUPPLY, PULSE, 10A, 230/24		Puls						
-H1		ZB4BV013		400063390		43 004 13		1		Pcs		LAMP HEAD, LED, WH		Schneider						
-H1		ZBVB1		07924015		43 032 23		1		Pcs		LAMP, LED, WH, 24V		Schneider						
-H2		ZB4BV053		400063393		43 027 55		1		Pcs		LAMP HEAD, LED, YE		Schneider						
-H2		ZBVB5		07924018		43 032 32		1		Pcs		LAMP, LED, YE, 24V		Schneider						
-K1		C9A41FX24D		07936016		43 785 77		1		Pcs		RELAY, RELECO, 4-POLE, 24V DC, 5A		Releco						
-K1		S9-M		07942014		43 786 79		1		Pcs		RELAY, SOCKET, 4-POLE		Releco						
-K2..-K5		C10A10X24D		07936014		43 781 45		4		Pcs		RELAY, RELECO, 1-POLE, 24V, DC, 10A		Releco						
-K2..-K5		S-10		07942012		43 782 84		4		Pcs		RELAY, SOCKET, RELECO 1-POLE		Releco						
-KF2.0		EK1101		400142335				1		Pcs		EtherCAT Coupler w ID settings		Beckhoff						
-KF2.1,-KF2.2		EL1008		400142339				2		Pcs		8 Digital Inputs		Beckhoff						
-KF2.3,-KF2.4,-KF2.5		EL2624		400142344				3		Pcs		4 Relay Outputs		Beckhoff						
-KF2.6		EL2911		400142346				1		Pcs		TwinSAFE 4 Digital Inputs, 1x Output		Beckhoff						
-KF2.7		EL9011		400142410				1		Pcs		Bus end cap		Beckhoff						
-RAIL1..-RAIL4		TS 35X7.5 6.2MM HULLET		07940001		12 692 14		1.32		M		RAIL, PERFORATED, TS35 x 7,5 x 6,2mm		Weidmüller						
-S1		XALK178W3B140G		400208317		4322660		1		Pcs		CONTR. PUSH, EM STOP		Schneider						
-TAG1..-TAG2,-TAG6..-TAG7		US-EMLP-HA 24		400075270				4		Pcs		TAG, SIGN, THERMOMARK CARD		Phoenix Contact						
-TAG4		US-EMLP 70X15		07958307		18 004 50		1		Pcs		TAG, SIGN, THERMOMARK CARD, W/GLUE		Phoenix Contact						
-TAG5		US-EMLP 100X60 4 Line		07958308				1		Pcs		TAG, SIGN, THERMOMARK CARD, W/GLUE		Phoenix Contact						
-X0		AEP AP12						1		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller						
-X0..-X2,-X11..-X12,-X41..-X42		AEB 35 SC/1		400073887		12 654 34		14		Pcs		TERMINAL BLOCK, SNAP-IN, END LOCK		Weidmüller						
-X0 (-)		AAP12 10/4X2.5 LO-LI BL						1		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller						
-X0 (-,-,-,-,-)		AAP12 2.5 LI BL						5		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller						
-X0 (+)		AAP12 10/4X2.5 LO-LI RD						1		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller						
-X0 (+,+,+)		AAP12 2.5 LI RD						3		Pcs		TERMINAL BLOCK, SNAP-IN,		Weidmüller						
-X0 (GND)		JORDSKINNE 21		07918007				1		Pcs		RAIL, GRN, BRASS, 21 SLOT		Weidmüller						
-X0 (GND,GND)		A3C 2.5 PE		400074010		12 654 16		2		Pcs		TERMINAL BLOCK, SNAP-IN, GND		Weidmüller						
-X0,-X2,-X11..-X12		AEP 3C 2.5		400069937		12 694 11		4		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller						
-X1 (1,3,5),-X41 (1,3,5,7),-X42 (1,3-9)		A2T 2.5		400073880		12 654 14		15		Pcs		TERMINAL BLOCK, SNAP-IN, TWO HIGHTS		Weidmüller						
03	For customer review		14.02.2023	GM	Date	14.10.2021		4/60185 CNP Freire MBARI		TRIPLEX A MacGregor company		Part List Hydraulic Power Pack		=HPU 2X87KW		E-4504 - 07				
02	For customer review		29.08.2022	RSI	Drawn by		KS							+B41		Rev. 03		2 / 10		
01	For customer review		22.12.2021	KS	Appr. by		BK													
Rev.	Description		Date	Rev. by	Standard															

1		2		3		4		5		6		7		8							
A	Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link				
	-X1 (GND)		A2C 2.5 PE		400074009		12 654 15		1		Pcs		TERMINAL BLOCK, SNAP-IN, GND		Weidmüller						
	-X1,-X41...-X42		AEP 2T 2.5		400073883		12 694 40		3		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller						
	-X2 (1-7),-X11 (1-9),-X12 (1-9)		A3C 2.5		400069932		12 654 01		25		Pcs		TERMINAL BLOCK, SNAP-IN, DOUBLE		Weidmüller						
	-X91,-X92		IE-TO-RJ45-FJ-B		07930061				2		Pcs		CONNECTOR, FEMALE, RJ45, RAIL MOUNT		Weidmüller						
B																					
C																					
D																					
E																					
F																					
03		For customer review		14.02.2023		GM		Date		14.10.2021		4/60185 CNP Freire MBARI		TRIPLEX A MacGregor company		Part List Hydraulic Power Pack		=HPU 2X87KW		E-4504 - 07	
02		For customer review		29.08.2022		RSI		Drawn by		KS											
01		For customer review		22.12.2021		KS		Appr. by		BK											
Rev.		Description		Date		Rev. by		Standard						+B41				Rev. 03		3 / 10	

1		2		3		4		5		6		7		8							
A	Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link				
	-A1		TSA52-140						1		Pcs		SOFTSTARTER, 200-525VAC, 50/60Hz, 140A, 75kW		Emotron						
B	-CAB1		ADO201		07939034		24 138 75		1		Pcs		CABINET, DOORSTOPPER, ADO, ELDON		Eldon						
	-CAB1		MAS0806030		07939032		24 176 15		1		Pcs		CABINET, 800x600x300 ELDON		Eldon						
C	-DUCT1..-DUCT2,-DUCT4,-DUCT6..-DUCT7,-DUCT9		HA760025		07920014		12 857 17		1.49		M		CABLE TRAY, 60X25, GREY, W/LID		Tehalit Hager						
	-DUCT5		HA760060		07920016		12 857 19		0.4		M		CABLE TRAY, 60X60, GREY, W/LID		Tehalit Hager						
D	-F1		C60H/C 02/2		07938004		16 760 61		1		Pcs		FUSE, AUTOMAT, 2A, 2-POLE, C		Schneider						
	-G1		CS05.241		07949015		66 040 28		1		Pcs		POWER SUPPLY, PULSE, 5A, 230/24		Puls						
E	-H5		ZBVB4		07924017		43 032 29		1		Pcs		LAMP, LED, RD, 24V		Schneider						
	-H6		ZBVB6		400056715		4303235		1		Pcs		LAMP, LED, BU, 24V		Schneider						
F	-K1,-K5..-K6		C12A21X24D		07936028		43 791 08		3		Pcs		RELAY, RELECO, 2-POLE, 24V, DC, 5A		Releco						
	-K1,-K5..-K6		S-12		07942015		43 791 01		3		Pcs		RELAY, SOCKET, RELECO, 2-POLE		Releco						
G	-K2,-K9		C10A10X24D		07936014		43 781 45		2		Pcs		RELAY, RELECO, 1-POLE, 24V, DC, 10A		Releco						
	-K2,-K9		S-10		07942012		43 782 84		2		Pcs		RELAY, SOCKET, RELECO 1-POLE		Releco						
H	-K3..-K4,-K10		C9A41FX24D		07936016		43 785 77		3		Pcs		RELAY, RELECO, 4-POLE, 24V DC, 5A		Releco						
	-K3..-K4,-K10		S9-M		07942014		43 786 79		3		Pcs		RELAY, SOCKET, 4-POLE		Releco						
I	-K7		RE22R1AMR		07948014		41 720 21		1		Pcs		RELAY, TIMER, 24V DC, ON-DELAY		Schneider						
	-K8		RE22R1DMR		400090666		41 720 24		1		Pcs		RELAY, TIMER, 24-240V AC/DC, BLINK		Schneider						
J	-KM1		LADN22		07916006		41 765 22		1		Pcs		AUXILIARY BLOCK, 2NO/2NC		Schneider						
	-KM1		LC1D150P7		07922025		41 766 84		1		Pcs		CONTACTOR, 150A, 230V, 3P, 1NO/1NC		Schneider						
K	-P1		BG4017-1248				80 502 73		1		Pcs		COUNTER, HOUR, 12-48VDC		Müller						
	-Q1		INS250-200 3P				43 212 34		1		Pcs		BREAKER, 200A, 3-POLE		Schneider						
L	-Q2		GV2ME04				43 217 19		1		Pcs		THERMAL RELAY, SWITCH, 0,40-0,63A		Schneider						
	-RAIL1..-RAIL5		TS 35X7.5 6.2MM HULLET		07940001		12 692 14		0.71		M		RAIL, PERFORATED, TS35 x 7,5 x 6,2mm		Weidmüller						
M	-S1		XB4BW73731B5		07961026		43 014 04		1		Pcs		CONTR. PUSH BUTTON, DOUBLE, I - 0 W/LED		Schneider						
	-S2		ZB4BW343		07960032		43 027 35		1		Pcs		CONTR. PUSH, RD, LED		Schneider						
N	-S2,-S6		ZBE101		07961013		43 004 23		2		Pcs		CONTR. ACC, CONTACTBLOCK, 1NO		Schneider						
	-S6		ZB4BK1263		07960021		43 025 22		1		Pcs		CONTR. SWITCH, 2 POS, LED, BU		Schneider						
O	-T1		FR96B-460230		400056236		66 224 63		1		Pcs		TRAFO, 180VA, 460-480-500/230V		Noratel						
	-TAG1,-TAG2		US-EMLP-HA 24		400075270				2		Pcs		TAG, SIGN, THERMOMARK CARD		Phoenix Contact						
P	-TAG3		US-EMLP 100X60 4 Line		07958308				1		Pcs		TAG, SIGN, THERMOMARK CARD, W/GLUE		Phoenix Contact						
	-X0		AEP AP12						1		Pcs		TERMINAL BLOCK, SNAP-IN, END PLATE		Weidmüller						
Q	-X0..-X4		AEB 35 SC/1		400073887		12 654 34		7		Pcs		TERMINAL BLOCK, SNAP-IN, END LOCK		Weidmüller						
	03		For customer review		14.02.2023		GM		Date		14.10.2021		4/60185 CNP Freire MBARI		Part List Hydraulic Power Pack		=HPU 2X87KW		E-4504 - 07		
02		For customer review		29.08.2022		RSI		Drawn by		KS		+B42					Rev. 03		4 / 10		
01		For customer review		22.12.2021		KS		Appr. by		BK											
Rev.		Description		Date		Rev. by		Standard													
Printed: 14.02.2023 14:18																		Template:			

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Device ID		Device		Part No.		El. No.		Qty		Unit		Description		Manufacturer		Link	
-S1		VBF01GE				14 747 85		1		Pcs		SWITCH, 16A, 3-POLE		Schneider			

1		2		3		4		5		6		7		8	
Device ID		Device		Part No.		El. No.		Qty	Unit	Description			Manufacturer		Link
-S1		XALK178W3B140G		400208317		4322660		1	Pcs	CONTR. PUSH, EM STOP			Schneider		