

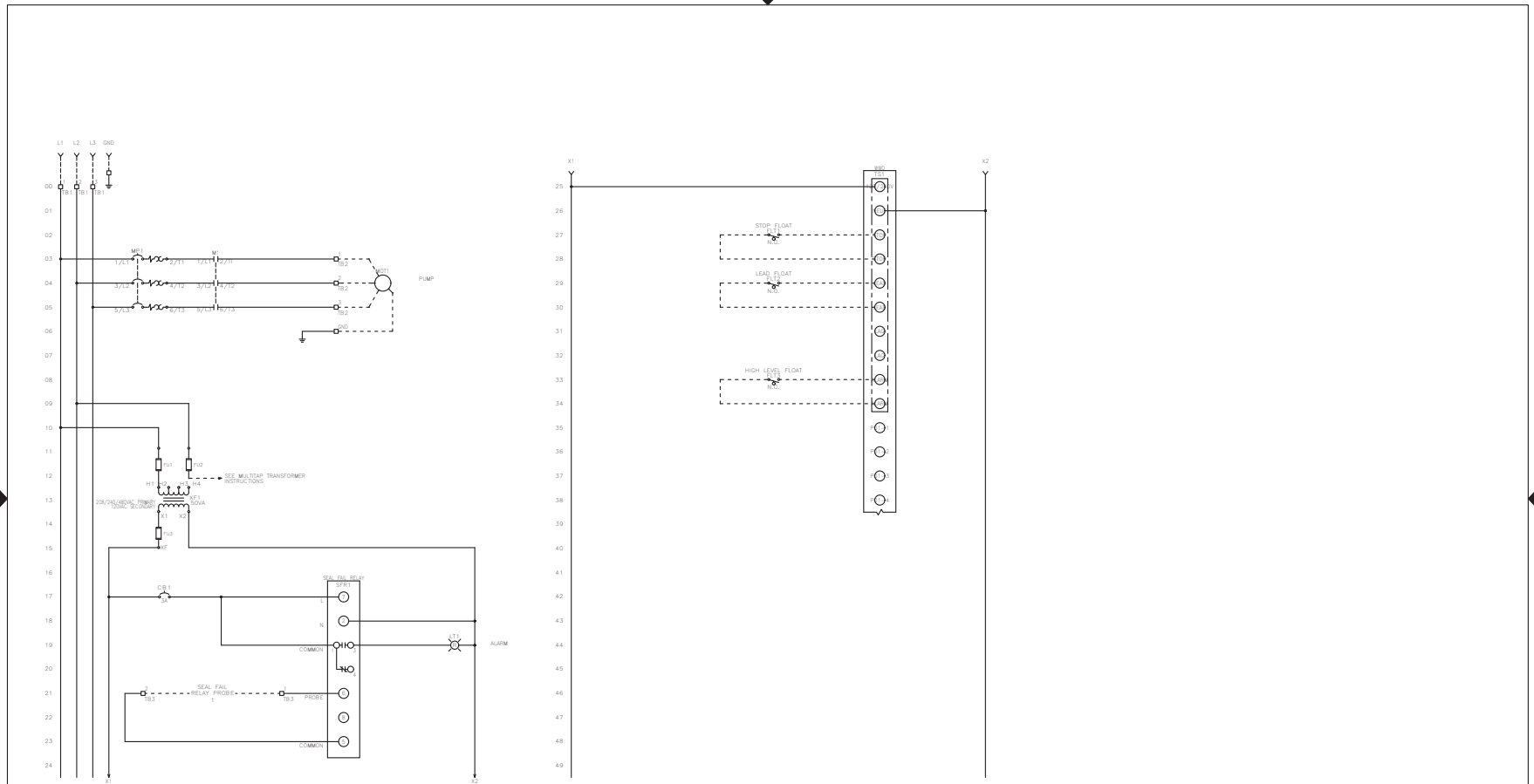
4DWC Simplex NSS31723

Control Panel Schematic and Layout

CONTROL PANEL SCHEMATIC

FNAME: NSS31723

REVDATE: 0423



MULTI-TAP TRANSFORMER:
CONNECT FACTORY TAGGED WIRES TO APPROPRIATE TRANSFORMER VOLTAGE TAP. SEE BELOW FOR CONNECTIONS:
FOR 208V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H2.
FOR 240V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H3.
FOR 480V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H4.

DASHED LINE INDICATES FIELD WIRING.
USE COPPER CONDUCTORS ONLY.
TEMPERATURE RATING OF CONDUCTORS IS TO BE: 90°C (194°F) FOR UNDER 100A, 75°C (167°F) FOR OVER 100A.
BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY THE INSTALLER. MUST BE SIZED ACCORDING TO PUMPMOTOR MANUFACTURING SPECIFICATIONS.
VERIFY CORRECT OPERATION OF CONTROL PANEL AFTER INSTALLATION IS COMPLETE.

FIELD WIRING TORQUE SPECS.	
TERMINAL BLOCK UT 2.5	5 IN-LB
TERMINAL BLOCK UT 4	7 IN-LB
TERMINAL BLOCK UT 6	15 IN-LB
TERMINAL BLOCK UT 10	15 IN-LB
TERMINAL BLOCK UT 16	25 IN-LB
TERMINAL BLOCK UT 35	30 IN-LB
TS1, TS2, J2 & J3 PCB	5 IN-LB
TRANSFORMER H1F, H2F & H3F	15 IN-LB
TRANSFORMER H1, H2 & H3	10 IN-LB
DS1 VLS3P16-83 R1	18 IN-LB
DS1 VLS3P63-125 R2	45 IN-LB
DS1 LK4JU3CN 100A	36 IN-LB
DS1 LK4MU3N 200A	200 IN-LB

DRAWN BY: AL DATE: 04/10/23
APPROVED BY: DO DATE: 04/11/23

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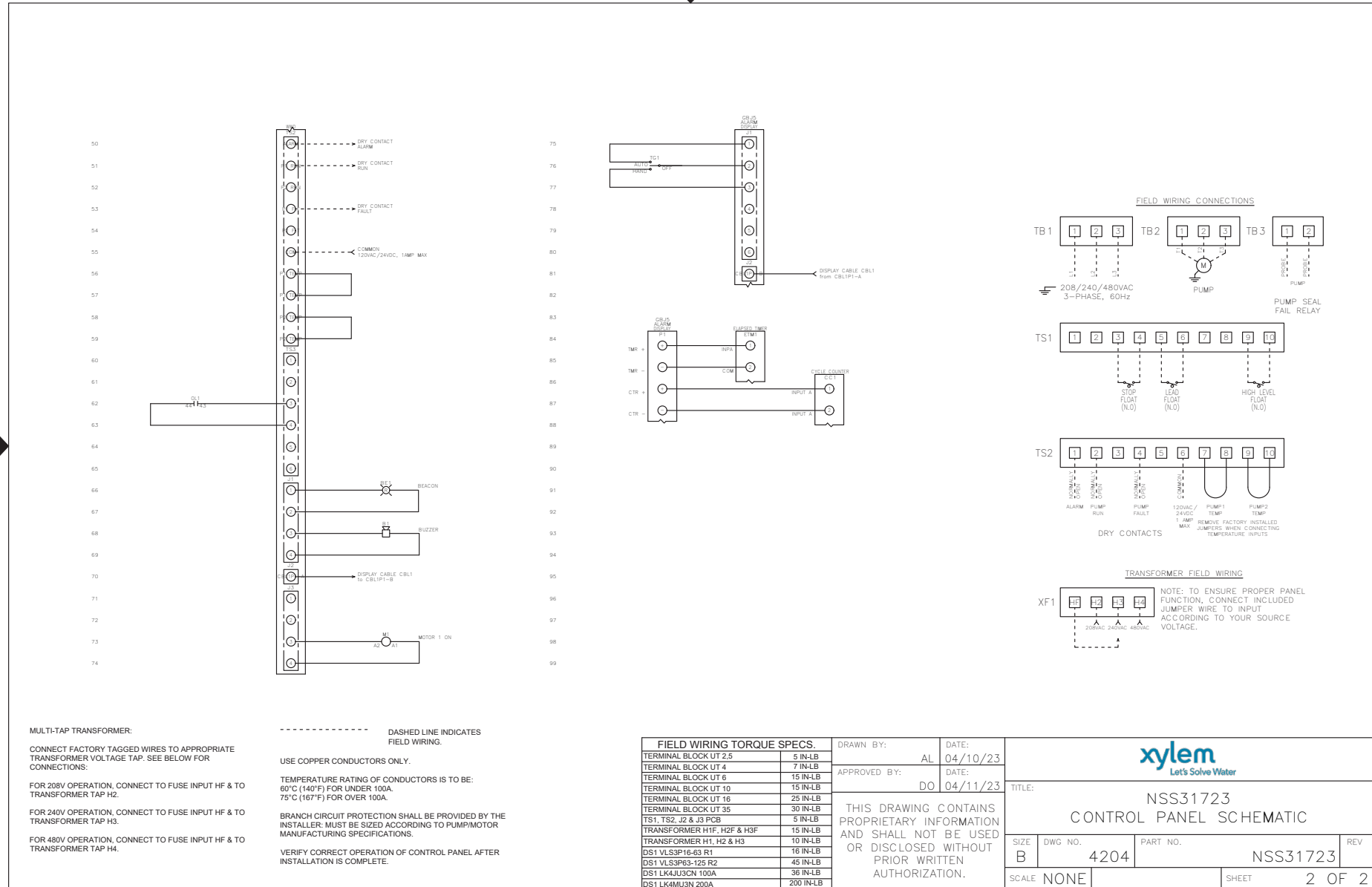
SIZE B	DWG NO. 4204	PART NO. NSS31723	REV
SCALE NONE	SHEET 1 OF 2		

CONTROL PANEL SCHEMATIC

BGNSS31723 R1

FNAME: NSS31723

REVDATE: 0423



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 FOR 480V OPERATION, CONNECT TO FUSE INPUT HF & TO TRANSFORMER TAP H4.

----- DASHED LINE INDICATES FIELD WIRING.
 USE COPPER CONDUCTORS ONLY.
 TEMPERATURE RATING OF CONDUCTORS IS TO BE: 60°C (140°F) FOR UNDER 100A, 75°C (167°F) FOR OVER 100A.
 BRANCH CIRCUIT PROTECTION SHALL BE PROVIDED BY THE INSTALLER; MUST BE SIZED ACCORDING TO PUMP/MOTOR MANUFACTURING SPECIFICATIONS.
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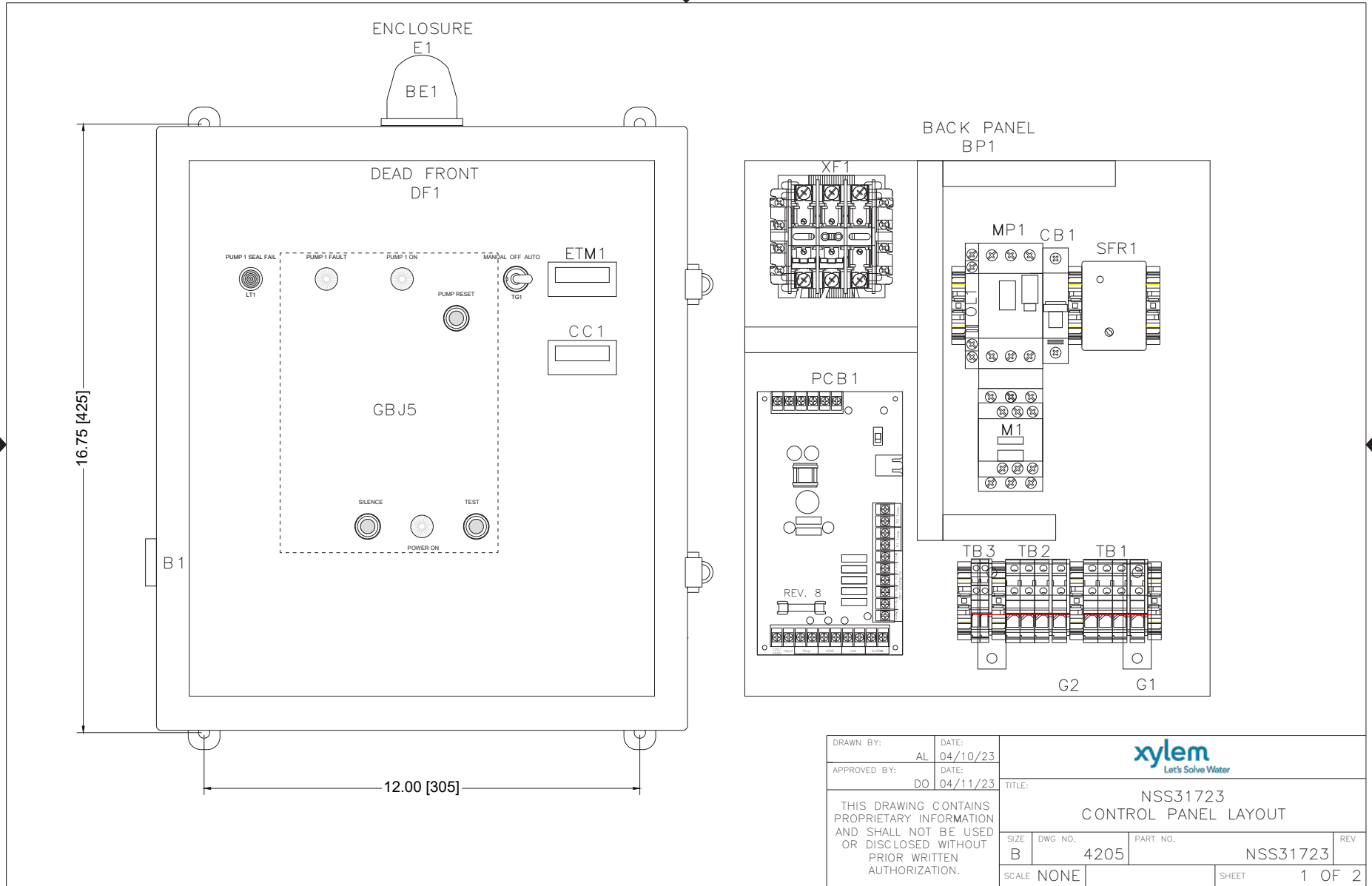
SIZE B	DWG NO. 4204	PART NO. NSS31723	REV
SCALE NONE	SHEET 2 OF 2		


CONTROL PANEL LAYOUT

BGNSS31723 R1

FNAME: NSS31723

REVDATE: 0423



DRAWN BY: AL		DATE: 04/10/23		 Let's Solve Water			
APPROVED BY: DO		DATE: 04/11/23					
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				SIZE: B	DWG NO.: 4205	PART NO.: NSS31723	REV:
				SCALE: NONE	SHEET: 1 OF 2		


CONTROL PANEL LAYOUT

FNAME: NSS31723

REVDATE: 0423

QTY	MANUFACTURER	DESCRIPTION	PART NUMBER	REF.
1	Integra	P.C. Nema 4X Enclosure- 16x14x7	H161407HCLL	E1
1	All-Spec	Dead Front	520	DF1
1	All-Spec	Back Panel	525	BP1
1	Integra	Hinge Kit	USOPK-P909	N/A
1	Ingram	Beacon	R10-SM	BE1
1	Ingram	Buzzer	PB-024-AD	B1
1	VCC	Red Light 125V	1050QC1	LT1
1	See Water	Display Board	GBJ5	GBJ5
3	LEDTRONICS	White Lense	LENS-LCD780-CWF	N/A
2	See Water	Flat Cable Assembly	IDC-25MB	N/A
2	Molex	4 Pin Connector	09-50-3041	N/A
1	Molex	6 Pin Connector	09-50-3061	N/A
1	See Water	Power Circuit Board	WWD	PCB1
1	Carling	HOA Toggle Switch	6FC57-73	TG1
1	Schneider	Multitap Transformer 50VA	9070TF50D20	XF1
2	Mersen	ATQR 3/10A Fuse	ATQR-3/10A	XF1
1	Mersen	TRM 6/10A Fuse	TRM-6/10A	XF1

QTY	MANUFACTURER	DESCRIPTION	PART NUMBER	REF.
1	Schneider	Motor Protector	CV2ME21	MP1
1	Schneider	Side Mount Auxiliary	GVAN11	OL1
1	Schneider	Contactora	LC1D25JL	M1
1	Schneider	GV2 Combination Block	GV2AF3	N/A
1	Noark	Circuit Breaker 3A 1 Pole	B1E1C3	CB1
1	Macromatics	Seal Fail Dual Channel Relay	SFP120C100	SFR1
1	Macromatics	8 Pin Socket	70169-D	SFR1
1	Trumeter	Elapsed Time Meter	6320-2500-0000	ETM1
1	Trumeter	Cycle Counter	6300-2500-0000	CC1
2	Phoenix Contact	Terminal Block UT-4	3044102	TB4
6	Phoenix Contact	Terminal Block UT-10	3044160	TB1-2
2	Phoenix Contact	Terminal Block UT-10-PE	3044173	G1-2
7	Phoenix Contact	End Stop	3022218	N/A
5	Phoenix Contact	End Cover	3047028	N/A
2	Altech	Angled Mounting Bracket	CA603	N/A
3	See Water	N.O. Narrow Angle Floats 50'	FPC0N50	N/A
1	UL	508A UL Label	N/A	N/A

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				NSS31723 CONTROL PANEL LAYOUT			
				SIZE	DWG NO.	PART NO.	REV
B	4205	NSS31723					
SCALE	NONE	SHEET	2 OF 2				



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