



Tag Note: Where y=1 for Pump1 Panel and y=2 for Pump2 Panel

Torque Rating Table					
Component	Tag	Torque Rating			
		5	7.5	10	15
208V Motor Terminal Block	PDB1, PDB2	35lb-in/4.0N-m	35lb-in/4.0N-m	40lb-in/4.5N-m	120lb-in/13.5N-m
240V Motor Terminal Block	PDB1, PDB2	35lb-in/4.0N-m	35lb-in/4.0N-m	35lb-in/4.0N-m	120lb-in/13.5N-m
480V Motor Terminal Block	PDB1, PDB2	35lb-in/4.0N-m	35lb-in/4.0N-m	35lb-in/4.0N-m	35lb-in/4.0N-m
Motor Ground Block	GND1	35lb-in/4.0N-m	35lb-in/4.0N-m	35lb-in/4.0N-m	35lb-in/4.0N-m
Field Terminations	TB1A				

Fuse Schedule				
Fuse	Type	Volts	Amps	Description
F-H1, F-H2	FNQR	600	5	XF1 Primary
F-X1	FNQ	600	7	XF1 Secondary
F-Px	KTKR	600	6	RVSS Control

Instructions:
Include for 480V systems,
remove for 208V/240V systems.

Instructions:
Select the Pump Protection
Circuit Option based on selected
pump manufacturer.

Instructions:
Select appropriate chart based
on supplied voltage.

RVSS - Equipment List for 2 - Pump Panel					
Item	Tag	Description	Manufacturer	Model	Qty
1	ENC1	Enclosure, 60"H x 24"W x 18"D, Free-Stand Single Access; 3-Point Latch; 12 Gauge 304 SS, Type 3R, 4, 4X, 12	Hoffman	A602418SFSFN4	2
2	BNPL1	Enclosure, 60"H x 24"W, Back Panel w/ Mounting Channel, Painted Steel	Hoffman	A60P24F1	2
3	SPNL1	Enclosure, Side Panel, X"h x Y"w, Aluminum	EWS	Custom-AL-SP-X x Y	2
4	DFNT	Enclosure, Dead Front, 60"hx24"w, Aluminum	EWS	Custom-AL-60x24	2
5	DFNT	Enclosure, Dead Front, Swing-Out Panel Kit	Hoffman	ANADFK	2
6	DRAIN	Enclosure, Drain Vent, H2OMIT, 2" L x 1.25" OD, 1/2" NPT/NPS, Corrosion-Resistant Poly., Type 4, 4x	Hoffman	AVDR4NM	2
7	GND	Ground, Bar 5 Points	Square D	PK5GTA	2
8	PNLT-Py	Enclosure, LED Light Kit, 20-60VDC 5W, Manual Switch, Screw Mount	Hoffman	LEDD1535	2
9	PDB-Py	Power Distribution Block, 3-Pole, 600V 175A 10KA Sym., Line-(1) #14-2/0 AWG Load-(4) #14-4 AWG	Square D	9080LBA362104	2
10	PDB-Py	Power Distribution Block, 3-Pole, Cover, Clear	Square D	9080LB23	2
11	N-Py	Power Distribution Block, 1-Pole, 600V 350A 10KA Sym., Line-(2) #14-2/0 AWG Load-(6) #14-4 AWG	Square D	9080LBA163206	2
12	N-Py	Power Distribution Block, 1-Pole, Cover, Clear	Square D	9080LB31	2
13	MTB-Py	Power Distribution Block, 3-Pole, 600V 175A 10KA Sym., Line-(1) #14-2/0 AWG Load-(1) #14-2/0 AWG	Square D	9080LBA362101	2
14	MTB-Py	Power Distribution Block, 3-Pole, Cover, Clear	Square D	9080LB23	2
15	GND	Ground, Lug (2), 600V #14-1/0 AWG	NSI	2-0T	2
16	CB1-Py	Circuit Breaker, Miniature Multi 9, 1 Pole, 240V 10A 60Hz 10KAIR, Box Lug #14-4 AWG, 22 lb-in	Square D	60110	2
17	HTRy	Heater, Electrical 400W, 120VAC	Hammond Manuf.	FLHTF400A115	2
18	RVSS-Py	Reduced Voltage Soft Starter	Square D	See HP Table	2
19	IMMy	Interface Connector, FLKM-D37 SUB/S, 37 pin, 125V 2.5A/pin or 1.5A even loading	Phoenix Contact	2281115	2
20	CBLy	Cable, Serial Data, RS-449, 3', DB37 Male/Female	GC Electronics	45-463	2
21	K-Py	Contact, IEC, By Pass	Square D	See HP Table	2
22	K-Py	Contact, TeSys D IEC, Suppressor, RC Circuit, 110-240VAC	Square D	LA4DA2U	2
23	F-Py	Fuse, Class CC, Fuse Holder, 1-Pole, 600V 30A	Bussmann	BC6031PQ	2
24	F-Py	Fuse, Class CC Fuse Holder Cover	Bussmann	SAMI-7N	2
25	F-Py	Fuse, 13/32" x 1-1/2", Class CC, Fast Acting Rejection, 600V 6A, 200KAIR	Bussmann	KTKR-6	2
26	SS1-Py, SS2-Py	Selector Switch, 30mm, 2 Position Maintained, Black Standard Handle, 600V 10A, 2-SPDT, NEMA Type 4/4X/13	Square D	9001SKS11BH2	4
27	LT1-Py	Pilot Light, 30mm Push To Test Light, 120VAC Green LED, Green Fresnel Lens, Type 1/2/3R/3/4/4X/12/13	Square D	9001SKT38LGG31	2
28	LS2,LS3	Switch, Intrusion Alarm, Momentary On, Maintained Off, 3/4A SPST N.C.	NSI	76030PS	2
29	CR-Py	Relay, 11-Pin Tubular, General Purpose Relay w/ Ind Light, Coil 24VDC 1.4W, 120/240VAC 10/6.5A, 3PDT	Square D	8501KPD13P14V53	2
30	CR-Py	Relay, 11-Pin Tubular Socket, 300V 10A Accepts up to 2 #14 AWG	ABB	NDS-11	2
31	TBy	Terminal Block, UT 4, Feed Through Terminal, 600V 30A 26-10AWG, Grey	Phoenix Contact	3044102	48
32	TBy, TByA	Terminal Block, D-UT 2,5/10, End Cover, Grey	Phoenix Contact	3047028	4
33	TByA	Terminal Block, UT 10, Feed Through Terminal, 600V 65A 20-6AWG, Grey	Phoenix Contact	3044160	8
34	XF1-Py	Control Transformer, Primary & Secondary Fusing, 1KVA, 220-480VAC x 120VAC	Square D	9070TF1000D1	2
35	XF1-Py	Control Transformer, Fuse Puller	Square D	9070FP-1	2
36	XF1-Py	Control Transformer, 250-5000 VA, Fingersafe Covers	Square D	9070FSC-2	2
37	F-H1, F-H2	Fuse, 13/32" x 1-1/2", Class CC, Time Delay Rejection, 600V 5A, 200KAIR	Bussmann	FNQR-5	4
38	F-X1	Fuse, 13/32" x 1-1/2", Midget, Time Delay, 500V 7A, 10KAIR	Bussmann	FNQ-7	2
39	- - -	Terminal Block, End Clamp, E/NS 35 N	Phoenix Contact	800886	8
40	CON1-Py,CON2--Py,CON3-Py	Connector, GST18®, Female, 250V 20A 4kVimpulse, Screw Connection, 6.2lb-in	Wieland	92.931.3053.1	6
41	CON1-Py,CON2--Py,CON3-Py	Connector, GST18®, Male, 250V 20A 4kVimpulse, Screw Connection, 6.2lb-in	Wieland	92.932.3053.1	6
Pump Protection Circuits Option F1					
42	PPMyA	Relay, 11-Pin Tubular, 1-Channel Seal Fail, Coil 120V 2VA; Probe 9VDC; Sensitivity Range 470 to 10KΩ; Contact 250V 10A, SPDT	Diversified Electrical	SPM-120-AAA-10K	2
43	PPMyA	Relay, 11-Pin Tubular Socket, 300V 10A	Custom Connector	ES11	2
Pump Protection Circuits Option G1					
42	PPMyA	Pump Protection Module (Supplied by Pump MFG)	Grundfos	SMART "S" RELAY	2
Pump Protection Circuits Option K1					
42	PPMyA	PumpSafe Relay Module A (Supplied by Pump MFG)	KSB	Module A	2
43	TByA	Terminal Block, UT 10, Feed Through Terminal, 600V 65A 20-6AWG, Grey	Phoenix Contact	3044160	Add 4
Pump Protection Circuits Option K2					
42	PPMyA	PumpSafe Relay Module A (Supplied by Pump MFG)	KSB	Module A	2
43	PPMyD	PumpSafe Relay Module D (Supplied by Pump MFG)	KSB	Module D	2
44	TBy	Terminal Block, UT 4, Feed Through Terminal, 600V 30A 26-10AWG, Grey	Phoenix Contact	3044102	Add 4
45	TByA	Terminal Block, UT 10, Feed Through Terminal, 600V 65A 20-6AWG, Grey	Phoenix Contact	3044160	Add 12

208/240VAC RVSS Pump Panel Horsepower Related Components Equipment List											
Item	Tag	5	7.5	10	15	20	25	30	40	50	60
Reduced Voltage Soft Starter	RVSS-Py	RVS-DN-17-400-115-115-3M-8-9-D-U-S	RVS-DN-31-400-115-115-3M-8-9-D-U-S	RVS-DN-31-400-115-115-3M-8-9-D-U-S	RVS-DN-58-400-115-115-3M-8-9-D-U-S	RVS-DN-72-400-115-115-3M-8-9-D-U-S	RVS-DN-85-400-115-115-3M-8-9-D-U-S	RVS-DN-105-400-115-115-3M-8-9-D-U-S	N/A	N/A	N/A
By Pass Contactor	K-Py	LC1D32G7	LC1D32G7	LC1D32G7	LC1D115G7	LC1D115G7	LC1D115G7	LC1D115G7	N/A	N/A	N/A
Pump Panel Power Distribution Block	PDB-Py	9080LBA361104	9080LBA361104	9080LBA361104	9080LBA363104	9080LBA363104	9080LBA363104	9080LBA363104	N/A	N/A	N/A
Pump Panel Power Distribution Block Cover	PDB-Py	N/A	N/A	N/A	9080LB33	9080LB33	9080LB33	9080LB33	N/A	N/A	N/A
Motor Neutral Block	N-Py	9080LBA161104	9080LBA161104	9080LBA161104	9080LBA162104	9080LBA162104	9080LBA162104	9080LBA162104	N/A	N/A	N/A
Motor Termination Block	MTB-Py	9080LBA361101	9080LBA361101	9080LBA361101	9080LBA362101	9080LBA362101	9080LBA362101	9080LBA362101	N/A	N/A	N/A

480VAC RVSS Pump Panel Horsepower Related Components Equipment List											
Item	Tag	5	7.5	10	15	20	25	30	40	50	60
480V RVSS	RVSS-Py	RVS-DN-08-480-115-115-3M-8-9-D-U-S	RVS-DN-17-480-115-115-3M-8-9-D-U-S	RVS-DN-17-480-115-115-3M-8-9-D-U-S	RVS-DN-31-480-115-115-3M-8-9-D-U-S	RVS-DN-31-480-115-115-3M-8-9-D-U-S	RVS-DN-44-480-115-115-3M-8-9-D-U-S	RVS-DN-44-480-115-115-3M-8-9-D-U-S	RVS-DN-58-480-115-115-3M-8-9-D-U-S	RVS-DN-72-480-115-115-3M-8-9-D-U-S	RVS-DN-85-480-115-115-3M-8-9-D-U-S
By Pass Contractor	K-Py	LC1D32G7	LC1D32G7	LC1D32G7	LC1D32G7	LC1D32G7	LC1D115G7	LC1D115G7	LC1D115G7	LC1D115G7	LC1D115G7
Pump Panel Power Distribution Block	PDB-Py	9080LBA361104	9080LBA361104	9080LBA361104	9080LBA361104	9080LBA361104	9080LBA361104	9080LBA362104	9080LBA363104	9080LBA363104	9080LBA363104
Motor Power Distribution Block Cover	PDB-Py	N/A	N/A	N/A	N/A	N/A	N/A	9080LB23	9080LB33	9080LB33	9080LB33
Motor Termination Block	MTB-Py	9080LBA361101	9080LBA361101	9080LBA361101	9080LBA361101	9080LBA361101	9080LBA361101	9080LBA362101	9080LBA362101	9080LBA362101	9080LBA362101

SEE NOTE #10 ON SHEET DS-0.1