

MANUFACTURE'S PART NUMBER				ITEM DESCRIPTION				ID QUAN.		ITEM DESCRIPTION		MANUFACTURE'S PART NUMBER	
1		78.4 X 70.87 X 23.62, NEMA 12, 12 GAUGE WALLS		20		2		DPDT ELECTRONIC FLASHER 24 VOLT DC SQUARE PLUG IN RELAY		AMPERITE 24DF10-120LDFV			
1		74 HIGH X 68 WIDE WHITE STEEL PANEL		2		2		11 PIN DIN MOUNTED PLUG IN SQUARE RELAY BASE		SIEMENS 31X7144-1E4			
2		15 INCH 24 VOLT DC LED TYPE PANEL FIXTURE											
1		PLINTH BASE FOR ABOVE ENCLOSURE		21		2		WHITE WIDE SLOT WIRING DUCT 1.28 WIDE 3.12 HIGH WITH COVER		PANDUIT G 1X3 WH / C1WH6			
2		CUSTOM BLACK NAMEPLATE PLASTIC ENGRAVED WHITE LETTERING		22		3		HIGH SPEED CLASS J FUSE 600 VOLT XXX AMP FOR VFD PROTECTION		BUSSMANN DF-J-100			
3		15 AMP GFCI RECEPTACLE BROWN				2		HIGH SPEED CLASS J FUSE 600 VOLT XXX AMP FOR SSRVS PROTECTION		BUSSMANN DFL-100			
4		30MM HEAVY DUTY OIL TIGHT 3 POSITION SELECTOR SWITCH		23		1		VARIABLE FREQUENCY DRIVE, 50 HP, 480 VOLTS		ROCKWELL AUTOMATION 20BD0A0NNNNC0			
4		CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR				1		DOOR MOUNTED REMOTE DISPLAY WITH CABLE		ROCKWELL AUTOMATION 22V-HIM4-6			
1		HAND OFF AUTO NAMEPLATE		24		1		INPUT LINE REACTOR, 60 HP, 480 VOLT, .3% IMPEDANCE,		ROCKWELL AUTOMATION 1321-3RA80-B			
5		30MM HEAVY DUTY OIL TIGHT ILLUMINATED GREEN PUSHBUTTON		25		1		OUTPUT REACTOR, 60 HP, 480 VOLT, .3% IMPEDANCE,		ROCKWELL AUTOMATION 1321-3RA80-B			
1		30MM HEAVY DUTY OIL TIGHT ILLUMINATED AMBER PUSHBUTTON		26		1		SOLID STATE SOFT STARTER		SIEMENS 3RW44271BC35			
2		CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR		28		1		DOOR MOUNTED REMOTE DISPLAY CABLE		SIEMENS 3UE7 993-0BA00-0			
2		CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR				1		DOOR MOUNTED REMOTE DISPLAY		SIEMENS 3RW49 00-0AC00			
2		"VFD MODE RUNNING" AND "SSRVS MODE RUNNING" NAMEPLATES				1							
6		30MM HEAVY DUTY OIL TIGHT ILLUMINATED RED PUSHBUTTON		27		2		3-POLE 24 VOLT DC OPERATED MOTOR CONTACTOR, 96AMPS, 60 HP		ROCKWELL AUTOMATION 100-D96SEZY22L			
4		CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR				3		SETS OF TERMINAL LUGS FOR CONTACTOR		ROCKWELL AUTOMATION 100-DL110			
2		CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR				2		SETS OF TERMINAL SHIELDS FOR CONTACTOR		ROCKWELL AUTOMATION 100-DTS110			
2		FAILURE PUSH TO RESET NAMEPLATES				1		MOUNTING PLATE FOR 2 CONTACTOR CONFIGURATION		ROCKWELL AUTOMATION 100-DMU180			
7		30MM HD RED ILLUMINATED OIL TIGHT 2 POSITION SELECTOR SWITCH				1		DUAL ELECTRICAL/MECHANICAL INTERLOCK FOR CONTACTORS		ROCKWELL AUTOMATION 100-DMID02			
1		"VFD SSRVS" NAMEPLATE				1		POWER WIRING KIT FOR 2 CONTACTORS INTERLOCKED		ROCKWELL AUTOMATION 100-D180-VL			
2		CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR		28		1							
1		CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR				1		12 CIRCUIT COPPER GROUNDING BUS		ILSCO D167-12			
8		PANEL MOUNT ELECTRONIC DC HOUR 6 DIGIT METER		29		4		COPPER LUG		ILSCO LC-0			
9		3 POLE MOULDED CASE CIRCUIT BREAKER 600 VOLT RATED		30		1		TEMPERATURE AND LEAKAGE PUMP SUPERVISION RELAY		PUMP MANUFACTURER TO SPECIFY			
3		DISTRIBUTION LUGS FOR BREAKER		31		9		24VOLT PLUGGABLE SURGE ARRESTOR DEVICE		DEHN BSP M4 BE 24 / 926-324			
3		TERMINAL SHIELD FOR BREAKER		31		9		BASE FOR SURGE ARRESTOR DEVICE FOR DIN MOUNTING		DEHN BXT BAS / 920 300			
10		4 POLE DOUBLE THROW 24 VOLT DC SQUARE PLUG IN RELAY				2		13" CABINET FAN WITH FILTER, 120 VAC		RITTAL 3326117			
10		14 PIN DIN MOUNTED PLUG IN RELAY BASE		32		2							
2		4 POLE DOUBLE THROW 24 VOLT DC SQUARE PLUG IN RELAY		33		1		USB TYPE BULKHEAD, FEMALE TO FEMALE, NEMA 12		GRACE ENGINEERING PRODUCTS P-P224K4			
2		DIODE SUPPRESSION SOCKET ACCESSORY		33		1							
11		SURGE PROTECTION DEVICE, MODULAR TYPE, 3 POLE, 480 VAC		34		1		USB TYPE BULKHEAD, FEMALE TO FEMALE, NEMA 12		GRACE ENGINEERING PRODUCTS P-P224K4			
		1500VA CONTROL TRANSFORMER 208-480VOLT PRL / 115 SEC.		35		-							
		WITH SECONDARY FUSE PROTECTION		35		-							
				36		-							
13		DIN MOUNTED 2 POLE MODULAR SURGE PROTECTION DEVICE											
14		1 DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER .5 AMP TRIP		37		1		THERMAL SENSOR, DOUBLE POLE, DOUBLE THROW SWITCH		PECO TH109-009			
1		DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 3 AMP TRIP		38		1		3 POLE FUSE HOLDER DEAD FRONT 600 VOLT RATED		BUSSMANN OPM-1038BSW			
1		DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 4 AMP TRIP		38		1		TIME DELAY CLASS CC 3.5 AMP FUSE		BUSSMANN FNO-R-3-1/2			
1		DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 5 AMP TRIP		39		1		TIME DELAY CLASS CC 15 AMP FUSE		BUSSMANN FNO-R-15			
1		DIN MOUNT SUPPLEMENTARY CIRCUIT BREAKER 6 AMP TRIP		39		1		FLANGE MOUNT VARIABLE DEPTH CIRCUIT BREAKER OPERATOR		ROCKWELL AUTOMATION 140U-LJFCS03			
1		CIRCUIT BREAKER LINE SIDE FEED BUS BAR		40		3		PERFORATED GALVANIZED DIN RAIL		ROCKWELL AUTOMATION 199-DRI			
1		CIRCUIT BREAKER LINE SIDE INFEED BUS BAR		40		3							
15		DIN MOUNTED 10 AMP DIN MOUNTED 24VOLT DC POWER SUPPLY		41		13		FEED THRU TYPE PE TERMINALS		PHOENIX CONTACT USLKG6N			
16		DIN MOUNTED BEIGE 1 TIER TERMINAL BLOCKS		42		1		30MM HEAVY DUTY OIL TIGHT ILLUMINATED BLUE PUSHBUTTON		ROCKWELL AUTOMATION 800T-QBH2B			
2		DIN MOUNTED BEIGE 1 TIER TERMINAL BLOCK END PLATE		42		1		CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR		ROCKWELL AUTOMATION 800T-XD1			
17		30MM HEAVY DUTY OIL TIGHT 2 POSITION SELECTOR SWITCH				1		CONTACT BLOCK NORMALLY CLOSED FOR ABOVE OPERATOR		ROCKWELL AUTOMATION 800T-XD2			
3		CONTACT BLOCK NORMALLY OPEN FOR ABOVE OPERATOR				1		SEE FRONT ELEVATION FOR NAMEPLATE DETAILS		ROCKWELL AUTOMATION 800T-X640			
1		OFF AUTO CUSTOM NAMEPLATE											
18		DPDT TIME DELAY "ON" 24 VOLT DC, 8 PIN OCT., PLUG IN RELAY											
2		8 PIN DIN MOUNTED PLUG IN SQUARE RELAY BASE											
19		DPDT TIME DELAY "OFF" 24 VOLT DC, 8 PIN OCT., PLUG IN RELAY											
1		11 PIN DIN MOUNTED PLUG IN SQUARE RELAY BASE											
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1		11 PIN DIN MOUNTED PLUG											

NOTES: 1. NO SUBSTITUTE EQUAL ITEM ACCEPTED- PROVIDE AS SPECIFIED
2. ALTERNATE APPROVED SPECIFIED ITEM EQUAL ACCEPTED.
3. BILL OF MATERIALS BASED ON A MAXIMUM OF 50 HP @ 480 VOLTS.
4. FOR LARGER HP APPLICATIONS, ALL COMPONENTS SHALL BE SIZED PROPERLY.

SCALE: N.T.S.	1	REVISED ORDERING DATA, ITEM 13
DESIGN: IAG /LS	2	ORDERING DATA, ITEM 18, ADDED ITEMS 5, 17 & 19
DRAWN BY: JG	3	REVISED ITEM 10 QUANTITY
	4	REVISED VARIOUS ITEMS AS PER MEETING
APPROVED BY: WW	5	REVISED COMPONENT NOTES
	NO	REVISION



WASTEWATER DIVISION,
INDUSTRIAL AUTOMATION GROUP

CITY OF
ORLANDO, FLORIDA