

# Reduced Voltage Pump Panels

## Auto Transformer & Part Winding [2 Step] with Solid State Overload, Class 88<sup>①</sup>

### Selection

Ordering Information	Coil and Control Voltage
<ul style="list-style-type: none"> <li>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/128.</li> <li>▶ Wiring Diagrams see pages 8/138 and 8/139.</li> <li>▶ Replacement Parts see page 8/157.</li> </ul>	<p>The coil voltage on the contactors will be the motor voltage. A CPT will be supplied to provide the control voltage. The control voltage will be 120V.</p> <p>To change the control voltage to customer supplied (no CPT included), change the 9th character to the following:                      for 24V , use "J"                      for 120V, use "F"</p>

### Auto Transformer Type

Motor Voltage	Max Hp	Overload		NEMA Size	Half Size	Fusible Disconnect			Circuit Breaker		
		Amp Range	Frame Size			Fuse Clip Size Amps/Volts	Catalog Number	List Price \$	Circuit Breaker Amps	Catalog Number	List Price \$
230	15	13-52	B	2	—	60A/250V	88FUFT2FG		50	88FUFT2MG	
	20	25-100	B	—	2½	100A/250V	88GUGT2FG		100	88GUGT2MG	
	30	25-100	B	3	—	100A/250V	88HUGT2FG		100	88HUGT2MG	
	40	50-200	B	—	3½	200A/250V	88IUHT2FG		125	88IUHT2MG	
	50	50-200	B	4	—	200A/250V	88JUHT2FG		150	88JUHT2MG	
	75	55-250	—	5	—	—	—	—	250	88LPST2MG	
	100	55-250	—	5	—	400A/250V	88LPUT2FG		400	88LPUT2MG	
200	160-630	—	6	—	—	—	—	600	88MSXT2MG		
460	25	13-52	B	2	—	60A/600V	88FUFT4FH		50	88FUFT4MH	
	30	25-100	B	—	2½	60A/600V	88GUGT4FH		50	88GUGT4MH	
	50	25-100	B	3	—	100A/600V	88HUGT4FH		100	88HUGT4MH	
	75	50-200	B	—	3½	200A/600V	88IUHT4FH		125	88IUHT4MH	
	100	50-200	B	4	—	200A/600V	88JUHT4FH		150	88JUHT4MH	
	150	55-250	—	5	—	—	—	—	250	88LPST4MH	
	200	55-250	—	5	—	400A/600V	88LPSP2MH		400	88LPST4MH	
400	160-630	—	6	—	600A/600V	88MSXT4FH		600	88MSXT4MH		

### Part Winding 2 Step

Motor Voltage	Max Hp	Overload		NEMA Size	Half Size	Fusible Disconnect			Circuit Breaker		
		Amp Range	Frame Size			Fuse Clip Size Amps/Volts	Catalog Number	List Price \$	Circuit Breaker Amps	Catalog Number	List Price \$
230	20	10-40	A1	—	1¼	100A/250V	88EUEP2FG		100	88EUEP2MG	
	25	13-52	B	2	—	100A/250V	88FUF2FG		100	88FUF2MG	
	40	25-100	B	—	2½	200A/250V	88GUGP2FG		100	88GUGP2MG	
	50	25-100	B	3	—	200A/250V	88HUGP2FG		150	88HUGP2MG	
	60	50-200	B	—	3½	200A/250V	88IUHP2FG		250	88IUHP2MG	
	75	50-200	B	4	—	400A/250V	88JUHP2FG		250	88JUHP2MG	
	125	55-250	—	5	—	—	—	—	400	88LPSP2MG	
150	55-250	—	5	—	600A/250V	88LPUP2FG		600	88LPUP2MG		
460	30	10-40	A1	—	1¼	100A/600V	88EUEP4FH		100	88EUEP4MH	
	40	13-52	B	2	—	100A/600V	88FUF4FH		100	88FUF4MH	
	60	25-100	B	—	2½	200A/600V	88GUGP4FH		100	88GUGP4MH	
	75	25-100	B	3	—	200A/600V	88HUGP4FH		150	88HUGP4MH	
	100	50-200	B	—	3½	200A/600V	88IUHP4FH		250	88IUHP4MH	
	150	50-200	B	4	—	400A/600V	88JUHP4FH		250	88JUHP4MH	
	250	55-250	—	5	—	—	—	—	400	88LPSP4MH	
350	55-250	—	5	—	600A/600V	88LPUP4FH		600	88LPSP4MH		

**Note:** All starter sizes carry one maximum Hp rating (per the National Electric Code).

<sup>①</sup> Enclosed starters with the ESP200 OLR will not be available until approximately December 2009. Continue to order enclosed starters with the ESP100 OLR until then.

# Reduced Voltage Pump Panels

## Wye Delta with Solid State Overload, Class 88<sup>①</sup>

Selection

Ordering Information	Coil and Control Voltage
<ul style="list-style-type: none"> <li>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/128.</li> <li>▶ Wiring Diagrams see pages 8/140 and 8/141.</li> <li>▶ Replacement Parts see page 8/157.</li> </ul>	<p>The coil voltage on the contactors will be the motor voltage. A CPT will be supplied to provide the control voltage. The control voltage will be 120V.</p> <p>To change the control voltage to customer supplied (no CPT included), change the 9th character to the following:                      for 24V , use "J"                      for 120V, use "F"</p>

### Wye Delta

Motor Voltage	Max Hp	Overload		NEMA Size	Half Size	Fuse Clip Size Amps/Volts	Motor Circuit Interrupter ETI Amps	Open Transition				Closed Transition			
		Amp Range	Frame Size					Fusible Disconnect		Circuit Breaker		Fusible Disconnect		Circuit Breaker	
								Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
200	10	10-40	A1	1	—	60A/250V	50	88DUE06FD	—	88DUE06MD	—	88DUEC6FD	—	88DUEC6MD	—
	15	10-40	A1	—	1½	100A/250V	100	88EUE06FD	—	88EUE06MD	—	88EUEC6FD	—	88EUEC6MD	—
	20	13-52	B	2	—	100A/250V	100	88FUF06FD	—	88FUF06MD	—	88FUF06FD	—	88FUF06MD	—
	30	25-100	B	—	2½	200A/250V	125	88GUG06FD	—	88GUG06MD	—	88GUG06FD	—	88GUG06MD	—
	40	25-100	B	3	—	200A/250V	150	88HUG06FD	—	88HUG06MD	—	88HUG06FD	—	88HUG06MD	—
	50	50-200	B	—	3½	200A/250V	250	88IUH06FD	—	88IUH06MD	—	88IUH06FD	—	88IUH06MD	—
	60	50-200	B	4	—	400A/250V	250	88JUH06FD	—	88JUH06MD	—	88JUH06FD	—	88JUH06MD	—
	75	55-250	—	5	—	400A/600V	400	88LPS06FD	—	88LPS06MD	—	88LPS06FD	—	88LPS06MD	—
	150	55-250	—	5	—	600A/600V	600	88LPU06FD	—	88LPU06MD	—	88LPU06FD	—	88LPU06MD	—
300	160-630	—	6	—	—	—	800	—	—	88MSX06MD	—	—	—	88MSXC6MD	—
230	10	10-40	A1	1	—	60A/250V	50	88DUE02FG	—	88DUE02MG	—	88DUEC2FG	—	88DUEC2MG	—
	15	10-40	A1	—	1½	60A/250V	50	88EUE02FG	—	88EUE02MG	—	88EUEC2FG	—	88EUEC2MG	—
	25	13-52	B	2	—	100A/250V	100	88FUF02FG	—	88FUF02MG	—	88FUF02FG	—	88FUF02MG	—
	30	25-100	B	—	2½	200A/250V	100	88GUG02FG	—	88GUG02MG	—	88GUG02FG	—	88GUG02MG	—
	50	25-100	B	3	—	200A/250V	150	88HUG02FG	—	88HUG02MG	—	88HUG02FG	—	88HUG02MG	—
	60	50-200	B	—	3½	200A/250V	250	88IUH02FG	—	88IUH02MG	—	88IUH02FG	—	88IUH02MG	—
	75	50-200	B	4	—	400A/250V	250	88JUH02FG	—	88JUH02MG	—	88JUH02FG	—	88JUH02MG	—
	100	55-250	—	5	—	400A/250V	400	88LPS02FG	—	88LPS02MG	—	88LPS02FG	—	88LPS02MG	—
	150	55-250	—	5	—	600A/250V	600	88LPU02FG	—	88LPU02MG	—	88LPU02FG	—	88LPU02MG	—
350	160-630	—	6	—	—	1200	—	—	88MSX02MG	—	—	—	88MSXC2MG	—	
460	15	10-40	A1	1	—	60A/600V	30	—	—	—	—	—	—	—	—
	30	10-40	A1	—	1½	60A/600V	50	88EUE04FH	—	88EUE04MH	—	88EUEC4FH	—	88EUEC4MH	—
	40	13-52	B	2	—	100A/600V	100	88FUF04FH	—	88FUF04MH	—	88FUF04FH	—	88FUF04MH	—
	60	25-100	B	—	2½	200A/600V	100	88GUG04FH	—	88GUG04MH	—	88GUG04FH	—	88GUG04MH	—
	75	25-100	B	3	—	200A/600V	125	88HUG04FH	—	88HUG04MH	—	88HUG04FH	—	88HUG04MH	—
	100	50-200	B	—	3½	200A/600V	150	88IUH04FH	—	88IUH04MH	—	88IUH04FH	—	88IUH04MH	—
	150	50-200	B	4	—	400A/600V	250	88JUH04FH	—	88JUH04MH	—	88JUH04FH	—	88JUH04MH	—
	200	55-250	—	5	—	400A/600V	400	88LPS04FH	—	88LPU04MH	—	88LPS04FH	—	88LPS04MH	—
	300	55-250	—	5	—	600A/600V	600	88LPU04FH	—	88LPU04MH	—	88LPU04FH	—	88LPU04MH	—
700	160-630	—	6	—	—	1200	—	—	88MSX04MH	—	—	—	88MSXC4MH	—	
575	15	10-40	A1	1	—	60A/600V	30	—	—	—	—	—	—	—	—
	30	10-40	A1	—	1½	60A/600V	50	88EUE05FE	—	88EUE05ME	—	88EUEC5FE	—	88EUEC5ME	—
	40	13-52	B	2	—	100A/600V	50	88FUF05FE	—	88FUF05ME	—	88FUF05FE	—	88FUF05ME	—
	60	25-100	B	—	2½	200A/600V	100	88GUG05FE	—	88GUG05ME	—	88GUG05FE	—	88GUG05ME	—
	75	25-100	B	3	—	200A/600V	125	88HUG05FE	—	88HUG05ME	—	88HUG05FE	—	88HUG05ME	—
	100	50-200	B	—	3½	200A/600V	150	88IUH05FE	—	88IUH05ME	—	88IUH05FE	—	88IUH05ME	—
	150	50-200	B	4	—	400A/600V	250	88JUH05FE	—	88JUH05ME	—	88JUH05FE	—	88JUH05ME	—
	200	55-250	—	5	—	400A/600V	400	88LPS05FE	—	88LPU05ME	—	88LPS05FE	—	88LPS05ME	—
	300	55-250	—	5	—	600A/600V	400	88LPU05FE	—	88LPU05ME	—	88LPU05FE	—	88LPU05ME	—
700	160-630	—	6	—	—	1200	—	—	88MSX05ME	—	—	—	88MSXC5ME	—	

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