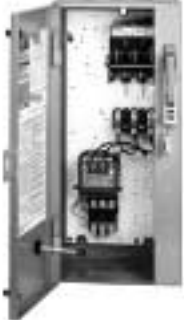




# Combination Heavy Duty Starters

Selection

Fusible with Ambient Compensated Bimetal Overload, Class 17

	<b>Ordering Information</b>	<b>Coil Table</b>																			
	<ul style="list-style-type: none"> <li>▶ Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order. Fuse clips are rejection type.</li> <li>▶ Heater elements see page 884.</li> <li>▶ Technical Data see pages 133–138.</li> <li>▶ Field Modification Kits see pages 121–125.</li> <li>▶ Factory Modifications see pages 126–132.</li> <li>▶ Dimensions see pages 142–144.</li> <li>▶ Wiring Diagrams see page 158.</li> <li>▶ Replacement Parts see page 882.</li> </ul>	<table border="1"> <thead> <tr> <th>60Hz Voltage</th> <th>Letter</th> </tr> </thead> <tbody> <tr> <td>24 Separate Control</td> <td>J</td> </tr> <tr> <td>120 Separate Control</td> <td>F</td> </tr> <tr> <td>110–120/220–240<sup>①</sup></td> <td>A</td> </tr> <tr> <td>200–208</td> <td>D</td> </tr> <tr> <td>220–240</td> <td>G</td> </tr> <tr> <td>277</td> <td>L</td> </tr> <tr> <td>220–240/440–480<sup>①</sup></td> <td>C</td> </tr> <tr> <td>440–480</td> <td>H</td> </tr> <tr> <td>575–600</td> <td>E</td> </tr> </tbody> </table> <p>For other voltages and frequencies, see Factory Modifications page 129.</p>	60Hz Voltage	Letter	24 Separate Control	J	120 Separate Control	F	110–120/220–240 <sup>①</sup>	A	200–208	D	220–240	G	277	L	220–240/440–480 <sup>①</sup>	C	440–480	H	575–600
60Hz Voltage	Letter																				
24 Separate Control	J																				
120 Separate Control	F																				
110–120/220–240 <sup>①</sup>	A																				
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220–240	G																				
277	L																				
220–240/440–480 <sup>①</sup>	C																				
440–480	H																				
575–600	E																				

2  
NEMA and HP  
Rated Control

## Standard Width Enclosure, 3 Phase, 3 Pole

Max Hp				Cont Amp Rating	NEMA Size	Half Size	Fuse Clip Size Amps/ Volts	Enclosure							
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4 Painted Watertight, Dusttight		NEMA 4/4X Stainless <sup>②</sup> Watertight, Dusttight Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>③</sup> Industrial Use Weatherproof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
3	3	—	—	18	0	—	30A/250V	17CP92B*1081	724.	17CP92E*1081	1390.	17CP92W*1081	1464.	17CP92N*1081	909.
—	—	5	5	18	0	—	30A/600V	17CP92B*1181	740.	17CP92E*1181	1406.	17CP92W*1181	1480.	17CP92N*1181	925.
5	5	—	—	27	1	—	30A/250V	17DP92B*1081	763.	17DP92E*1081	1428.	17DP92W*1081	1502.	17DP92N*1081	947.
—	—	10	10	27	1	—	30A/600V	17DP92B*1181	779.	17DP92E*1181	1444.	17DP92W*1181	1518.	17DP92N*1181	963.
7½	7½	—	—	27	1	—	60A/250V	17DP92B*1281	779.	17DP92E*1281	1444.	17DP92W*1281	1518.	17DP92N*1281	963.
10	10	—	—	40	—	1¼	60A/250V	17EP92B*1281	894.	17EP92E*1281	1553.	17EP92W*1281	1634.	17EP92N*1281	1079.
—	—	15	15	40	—	1¼	60A/600V	17EP92B*1381	909.	17EP92E*1381	1568.	17EP92W*1381	1649.	17EP92N*1381	1094.
10	15	—	—	45	2	—	60A/250V	17FP92B*1281	1210.	17FP92E*1281	2235.	17FP92W*1281	2350.	17FP92N*1281	1472.
—	—	25	25	45	2	—	60A/600V	17FP92B*1381	1225.	17FP92E*1381	2250.	17FP92W*1381	2365.	17FP92N*1381	1487.
15	20	—	—	60	—	2½	100A/250V	17GP92B*1481	1718.	17GP92E*1481	3526.	17GP92W*1481	3705.	17GP92N*1481	2057.
—	—	30	30	60	—	2½	100A/600V	17GP92B*1581	1718.	17GP92E*1581	3526.	17GP92W*1581	3705.	17GP92N*1581	2057.
25	30	—	—	90	3	—	100A/250V	17HP92B*1481	2072.	17HP92E*1481	3862.	17HP92W*1481	4060.	17HP92N*1481	2411.
—	—	50	50	90	3	—	100A/600V	17HP92B*1581	2072.	17HP92E*1581	3862.	17HP92W*1581	4060.	17HP92N*1581	2411.
25	30	—	—	90	3	—	200A/250V	17HP92B*1681	2226.	17HP92E*1681	4016.	17HP92W*1681	4214.	17HP92N*1681	2565.
30	40	—	—	115	—	3½	200A/250V	17IP92B*1681	3728.	17IP92E*1681	5970.	17IP92W*1681	6271.	17IP92N*1681	4668.
—	—	75	75	115	—	3½	200A/600V	17IP92B*1781	3728.	17IP92E*1781	5970.	17IP92W*1781	6271.	17IP92N*1781	4668.
40	50	—	—	135	4	—	200A/250V	17JP92B*1681	4037.	17JP92E*1681	6263.	17JP92W*1681	6579.	17JP92N*1681	4976.
—	—	100	100	135	4	—	200A/600V	17JP92B*1781	4037.	17JP92E*1781	6263.	17JP92W*1781	6579.	17JP92N*1781	4976.
50	75	—	—	210	—	4½	400A/250V	ESP100 Solid State Overload Standard, see page 62 for selection.							
—	—	150	150	210	—	4½	400A/600V								
75	100	—	—	270	5	—	400A/250V								
—	—	200	200	270	5	—	400A/600V								
150	200	—	—	540	6	—	600A/250V								
—	—	400	400	540	6	—	800A/600V								
—	300	600	600	810	7	—	1200A/600V								
—	450	900	900	1215	8	—	1600A/600V								


①Dual voltage coils not available in modified starters.  
 ②For NEMA 4X fiberglass enclosure, change 7th character of catalog number to F.  
 Example: 17CP92F\*1181.  
 Price same as stainless steel.  
 ③NEMA 12 may be field modified for NEMA 3/3R, see page 125.



# Combination Heavy Duty Starters

Selection

Fusible with Ambient Compensated Bimetal Overload, Class 17

	<b>Ordering Information</b> <ul style="list-style-type: none"> <li>▶ Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order. Fuse clips are rejection type.</li> <li>▶ Heater elements see page 884.</li> <li>▶ Technical Data see pages 133–138.</li> <li>▶ Field Modification Kits see pages 121–125.</li> <li>▶ Factory Modifications see pages 126–132.</li> <li>▶ Dimensions see pages 142–144.</li> <li>▶ Wiring Diagrams see page 158.</li> <li>▶ Replacement Parts see page 882.</li> </ul>	<b>Coil Table</b> <table border="1"> <thead> <tr> <th>60Hz Voltage</th> <th>Letter</th> </tr> </thead> <tbody> <tr> <td>24 Separate Control</td> <td>J</td> </tr> <tr> <td>120 Separate Control</td> <td>F</td> </tr> <tr> <td>110–120/220–240<sup>⓪</sup></td> <td>A</td> </tr> <tr> <td>200–208</td> <td>D</td> </tr> <tr> <td>220–240</td> <td>G</td> </tr> <tr> <td>277</td> <td>L</td> </tr> <tr> <td>220–240/440–480<sup>⓪</sup></td> <td>C</td> </tr> <tr> <td>440–480</td> <td>H</td> </tr> <tr> <td>575–600</td> <td>E</td> </tr> </tbody> </table> <p>For other voltages and frequencies, see Factory Modifications page 129.</p>	60Hz Voltage	Letter	24 Separate Control	J	120 Separate Control	F	110–120/220–240 <sup>⓪</sup>	A	200–208	D	220–240	G	277	L	220–240/440–480 <sup>⓪</sup>	C	440–480	H	575–600	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
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220–240	G																					
277	L																					
220–240/440–480 <sup>⓪</sup>	C																					
440–480	H																					
575–600	E																					

### Extra Wide Enclosure, 3 Phase, 3 Pole

Max Hp				Cont Amp Rating	NEMA Size	Half Size	Fuse Clip Size Amps/Volts	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless Watertight, Dusttight, Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>®</sup> Industrial Use WeatherProof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
3	3	—	—	18	0	—	30A/250V	17CP82B*1081	917.	17CP82W*1081	2041.	17CP82N*1081	1256.
—	—	5	5	18	0	—	30A/600V	17CP82B*1181	933.	17CP82W*1181	2057.	17CP82N*1181	1272.
5	5	—	—	27	1	—	30A/250V	17DP82B*1081	955.	17DP82W*1081	2080.	17DP82N*1081	1294.
—	—	10	10	27	1	—	30A/600V	17DP82B*1181	971.	17DP82W*1181	2096.	17DP82N*1181	1310.
7½	7½	—	—	27	1	—	60A/250V	17DP82B*1281	971.	17DP82W*1281	2096.	17DP82N*1281	1310.
10	10	—	—	40	—	1¾	60A/250V	17EP82B*1281	1087.	17EP82W*1281	2212.	17EP82N*1281	1426.
—	—	15	15	40	—	1¾	60A/600V	17EP82B*1381	1102.	17EP82W*1381	2227.	17EP82N*1381	1441.
10	15	—	—	45	2	—	60A/250V	17FP82B*1281	1403.	17FP82W*1281	2928.	17FP82N*1281	1819.
—	—	25	25	45	2	—	60A/600V	17FP82B*1381	1418.	17FP82W*1381	2943.	17FP82N*1381	1834.
15	20	—	—	60	—	2½	100A/250V	17GP82B*1481	2103.	17GP82W*1481	4861.	17GP82N*1481	2750.
—	—	30	30	60	—	2½	100A/600V	17GP82B*1581	2103.	17GP82W*1581	4861.	17GP82N*1581	2750.
25	30	—	—	90	3	—	100A/250V	17HP82B*1481	2457.	17HP82W*1481	5215.	17HP82N*1481	3104.
—	—	50	50	90	3	—	100A/600V	17HP82B*1581	2457.	17HP82W*1581	5215.	17HP82N*1581	3104.
25	30	—	—	90	3	—	200A/250V	17HP82B*1681	2611.	17HP82W*1681	5369.	17HP82N*1681	3258.

### Horizontal Compact Enclosure, 3 Phase, 3 Pole

Max Hp				Cont Amp Rating	NEMA Size	Half Size	Fuse Clip Size Amps/Volts	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless Watertight, Dusttight, Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>®</sup> Industrial Use WeatherProof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
3	3	—	—	18	0	—	30A/250V	17CP72B*1081	724.	17CP72W*1081	1464.	17CP72N*1081	909.
—	—	5	5	18	0	—	30A/600V	17CP72B*1181	740.	17CP72W*1181	1480.	17CP72N*1181	925.
5	5	—	—	27	1	—	30A/250V	17DP72B*1081	763.	17DP72W*1081	1502.	17DP72N*1081	947.
—	—	10	10	27	1	—	30A/600V	17DP72B*1181	779.	17DP72W*1181	1518.	17DP72N*1181	963.
7½	7½	—	—	27	1	—	60A/250V	17DP72B*1281	779.	17DP72W*1281	1518.	17DP72N*1281	963.
10	10	—	—	40	—	1¾	60A/250V	17EP72B*1281	894.	17EP72W*1281	1634.	17EP72N*1281	1079.
—	—	15	15	40	—	1¾	60A/600V	17EP72B*1381	909.	17EP72W*1381	1649.	17EP72N*1381	1094.
10	15	—	—	45	2	—	60A/250V	17FP72B*1281	1210.	17FP72W*1281	2350.	17FP72N*1281	1471.
—	—	25	25	45	2	—	60A/600V	17FP72B*1381	1225.	17FP72W*1381	2365.	17FP72N*1381	1487.

⓪Dual voltage coils not available in modified starters.  
 ⓂNEMA 12 may be field modified for NEMA 3/3R, see page 125.

2  
 NEMA and HP  
 Rated Control

# Combination Heavy Duty Starters

Selection

## Circuit Breaker with Solid State Overload, Class 18



### Ordering Information

- ▶ Replace the (\*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- ▶ For self-reset overload option on Sizes 0–5, change 4th character from "S" or "T" to "R". No price addition.
- ▶ Technical Data see pages 133–138.
- ▶ Field Modification Kits see pages 121–125.
- ▶ Factory Modifications see pages 126–132.
- ▶ Dimensions see pages 142–144.
- ▶ Wiring Diagrams see page 158.
- ▶ Replacement Parts see page 882.

### Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240 <sup>①</sup>	A
200–208	D
220–240	G
277	L
220–240/440–480 <sup>②</sup>	C
440–480 <sup>②</sup>	H
575–600 <sup>②</sup>	E

For other voltages and frequencies, see Factory Modifications page 129.

2

NEMA and HP Rated Control

### Standard Width Enclosure, 3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Overload Amp Range	Motor Circuit Interrupter ETI Amps	Enclosure									
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4 Painted Watertight, Dusttight		NEMA 4/4X Stainless <sup>③</sup> Watertight, Dusttight Corrosion Resistant 304 Stainless Steel		NEMA 7 & 9 NEMA 3, 4 Class I, Groups C & D; Class II Groups E, F & G Bolted Enclosures Indoor/Outdoor Use		NEMA 12 NEMA 3/3R <sup>④</sup> Industrial Use Weatherproof	
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Overload Amp Range	Motor Circuit Interrupter ETI Amps	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1/2	1	1	0	—	0.25–1	3	18CSA92B*	1013.	18CSA92E*	1667.	18CSA92W*	1753.	18CSA92H*	2111.	18CSA92N*	1198.
1/2	1/2	1	1	0	—	0.75–3	3	18CSB92B*	1013.	18CSB92E*	1667.	18CSB92W*	1753.	18CSB92H*	2111.	18CSB92N*	1198.
2	2	5	5	0	—	2.5–10	10	18CSD92B*	1013.	18CSD92E*	1667.	18CSD92W*	1753.	18CSD92H*	2111.	18CSD92N*	1198.
3	3	—	—	0	—	9–18	25	18CSE92B*	1013.	18CSE92E*	1667.	18CSE92W*	1753.	18CSE92H*	2111.	18CSE92N*	1198.
1/2	1/2	1	1	1	—	0.25–1	3	18DSA92B*	1052.	18DSA92E*	1703.	18DSA92W*	1791.	18DSA92H*	2161.	18DSA92N*	1236.
1/2	1/2	1	1	1	—	0.75–3	3	18DSB92B*	1052.	18DSB92E*	1703.	18DSB92W*	1791.	18DSB92H*	2161.	18DSB92N*	1236.
2	2	5	5	1	—	2.5–10	10	18DSD92B*	1052.	18DSD92E*	1703.	18DSD92W*	1791.	18DSD92H*	2161.	18DSD92N*	1236.
3	3	7 1/2	10	1	—	9–18	25	18DSE92B*	1052.	18DSE92E*	1703.	18DSE92W*	1791.	18DSE92H*	2161.	18DSE92N*	1236.
7 1/2	7 1/2	10	—	1	—	13–27	30	18DSF92B*	1052.	18DSF92E*	1703.	18DSF92W*	1791.	18DSF92H*	2161.	18DSF92N*	1236.
—	—	15	15	—	1 3/4	13–27	30	18ESF92B*	1167.	18ESF92E*	1813.	18ESF92W*	1907.	18ESF92H*	2743.	18ESF92N*	1352.
10	10	—	—	—	1 3/4	20–40	50	18ESG92B*	1167.	18ESG92E*	1813.	18ESG92W*	1907.	18ESG92H*	2743.	18ESG92N*	1352.
—	—	15	20	2	—	13–27	30	18FSF92B*	1475.	18FSF92E*	2486.	18FSF92W*	2616.	18FSF92H*	2874.	18FSF92N*	1737.
10	15	25	25	2	—	22–45	50	18FSH92B*	1475.	18FSH92E*	2486.	18FSH92W*	2616.	18FSH92H*	2874.	18FSH92N*	1737.
—	—	30	30	—	2 1/2	22–45	50	18GSH92B*	1961.	18GSH92E*	3752.	18GSH92W*	3948.	18GSH92H*	3801.	18GSH92N*	2300.
15	20	—	—	—	2 1/2	30–60	100	18GSJ92B*	1961.	18GSJ92E*	3752.	18GSJ92W*	3948.	18GSJ92H*	3801.	18GSJ92N*	2300.
—	—	30	40	3	—	30–60	50	18HSJ92B*	2130.	18HSJ92E*	3914.	18HSJ92W*	4118.	18HSJ92H*	4726.	18HSJ92N*	2469.
25	30	50	50	3	—	45–90	100	18HSK92B*	2130.	18HSK92E*	3914.	18HSK92W*	4118.	18HSK92H*	4726.	18HSK92N*	2469.
30	40	75	75	—	3 1/2	57–115	125	18ISL92B*	4326.	18ISL92E*	6525.	18ISL92W*	6868.	18ISL92H*	6036.	18ISL92N*	5266.
40	50	100	100	4	—	67–135	150	18JTM92B*	4634.	18JTM92E*	6818.	18JTM92W*	7176.	18JTM92H*	7346.	18JTM92N*	5574.
50	75	150	150	—	4 1/2	100–210	250	18KTS92B*	10162.	18KTS92E*	15816.	18KTS92W*	16648.	18KTS92H*	15385.	18KTS92N*	11856.
60	75	150	200	5	—	100–270	250	18LTT92B*	10701.	18LTT92E*	15815.	18LTT92W*	17188.	18LTT92H*	15924.	18LTT92N*	12396.
75	100	200	—	5	—	100–270	400H	18LTU92B*	10701.	18LTU92E*	15815.	18LTU92W*	17188.	18LTU92H*	15924.	18LTU92N*	12396.
100	125	250	300	6	—	200–540	600L	18MTW92B*	22669.	18MTW92E*	26521.	—	—	—	—	18MTW92N*	24749.
150	200	400	400	6	—	200–540	800L	18MTX92B*	23197.	18MTX92E*	27049.	—	—	—	—	18MTX92N*	25277.
—	250	500	500	7	—	420–820	800A	18NTV92B*	31317.	18NTV92E*	35169.	—	—	—	—	18NTV92N*	33397.
—	300	600	600	7	—	420–820	1000	18NTY92B*	31317.	18NTY92E*	35169.	—	—	—	—	18NTY92N*	33397.
—	400	800	800	8	—	420–1220	1200	18PTZ92B*	46586.	18PTZ92E*	50438.	—	—	—	—	18PTZ92N*	48666.
—	450	900	900	8	—	420–1220	1600	18PT192B*	46586.	18PT192E*	50438.	—	—	—	—	18PT192N*	48666.

Note: Hp's shown above are based on the overload amp range for the FLA's (per the National Electric Code) of typical industrial motors. All starter sizes carry one maximum Hp rating.

①Dual voltage coils not available in modified starters or in starter sizes 4 1/2–8.

②Not available with self-reset option.

③For NEMA 4X fiberglass enclosure, change 8th character of catalog number to F. Example:

18CSB92F\*. Price same as stainless steel. Available through size 4.

④NEMA 12 may be field modified for NEMA 3/3R, see page 125.



# Combination Heavy Duty Starters

Selection

## Circuit Breaker with Solid State Overload, Class 18



### Ordering Information

- ▶ Replace the (\*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- ▶ For self-reset overload option on Sizes 0–5, change 4th character from "S" or "T" to "R". No price addition.
- ▶ Technical Data see pages 133–138.
- ▶ Field Modification Kits see pages 121–125.
- ▶ Factory Modifications see pages 126–132.
- ▶ Dimensions see pages 142–144.
- ▶ Wiring Diagrams see page 158.
- ▶ Replacement Parts see page 882.

### Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240 <sup>①</sup>	A
200–208	D
220–240	G
277	L
220–240/440–480 <sup>②</sup>	C
440–480 <sup>②</sup>	H
575–600 <sup>②</sup>	E

For other voltages and frequencies, see Factory Modifications page 129.

2

NEMA and HP Rated Control

### Extra Wide Enclosure, 3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Overload Amp Range	Motor Circuit Interrupter ETI Amps	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless Watertight, Dusttight Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>③</sup> Industrial Use Weatherproof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1/2	1	1	0	—	0.25–1	3	18CSA82B*	1206.	18CSA82W*	2330.	18CSA82N*	1545.
1/2	1/2	1	1	0	—	0.75–3	3	18CSB82B*	1206.	18CSB82W*	2330.	18CSB82N*	1545.
2	2	5	5	0	—	2.5–10	10	18CSD82B*	1206.	18CSD82W*	2330.	18CSD82N*	1545.
3	3	—	—	0	—	9–18	25	18CSE82B*	1206.	18CSE82W*	2330.	18CSE82N*	1545.
1/2	1/2	1	1	1	—	0.25–1	3	18DSA82B*	1244.	18DSA82W*	2369.	18DSA82N*	1583.
1/2	1/2	1	1	1	—	0.75–3	3	18DSB82B*	1244.	18DSB82W*	2369.	18DSB82N*	1583.
2	2	5	5	1	—	2.5–10	10	18DSD82B*	1244.	18DSD82W*	2369.	18DSD82N*	1583.
3	3	7 1/2	10	1	—	9–18	25	18DSE82B*	1244.	18DSE82W*	2369.	18DSE82N*	1583.
7 1/2	7 1/2	10	—	1	—	13–27	30	18DSF82B*	1244.	18DSF82W*	2369.	18DSF82N*	1583.
—	—	15	15	—	1 1/4	13–27	30	18ESF82B*	1360.	18ESF82W*	2485.	18ESF82N*	1699.
10	10	—	—	—	1 1/4	20–40	50	18ESG82B*	1360.	18ESG82W*	2485.	18ESG82N*	1699.
—	—	15	20	2	—	13–27	30	18FSF82B*	1668.	18FSF82W*	3193.	18FSF82N*	2084.
10	15	25	25	2	—	22–45	50	18FSH82B*	1668.	18FSH82W*	3193.	18FSH82N*	2084.
—	—	30	30	—	2 1/2	22–45	50	18GSH82B*	2346.	18GSH82W*	5104.	18GSH82N*	2993.
15	20	—	—	—	2 1/2	30–60	100	18GSJ82B*	2346.	18GSJ82W*	5104.	18GSJ82N*	2993.
—	—	30	40	3	—	30–60	50	18HSJ82B*	2515.	18HSJ82W*	5273.	18HSJ82N*	3162.
25	30	50	50	3	—	45–90	100	18HSK82B*	2515.	18HSK82W*	5273.	18HSK82N*	3162.

### Horizontal Compact Enclosure, 3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Overload Amp Rating	Motor Circuit Interrupter ETI Amps	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless Watertight, Dusttight Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>③</sup> Industrial Use Weatherproof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1/2	1	1	0	—	0.25–1	3	18CSA72B*	1013.	18CSA72W*	1753.	18CSA72N*	1198.
1/2	1/2	1	1	0	—	0.75–3	3	18CSB72B*	1013.	18CSB72W*	1753.	18CSB72N*	1198.
2	2	5	5	0	—	2.5–10	10	18CSD72B*	1013.	18CSD72W*	1753.	18CSD72N*	1198.
3	3	—	—	0	—	9–18	25	18CSE72B*	1013.	18CSE72W*	1753.	18CSE72N*	1198.
1/2	1/2	1	1	1	—	0.25–1	3	18DSA72B*	1052.	18DSA72W*	1791.	18DSA72N*	1236.
1/2	1/2	1	1	1	—	0.75–3	3	18DSB72B*	1052.	18DSB72W*	1791.	18DSB72N*	1236.
2	2	5	5	1	—	2.5–10	10	18DSD72B*	1052.	18DSD72W*	1791.	18DSD72N*	1236.
3	3	7 1/2	10	1	—	9–18	25	18DSE72B*	1052.	18DSE72W*	1791.	18DSE72N*	1236.
7 1/2	7 1/2	10	—	1	—	13–27	30	18DSF72B*	1052.	18DSF72W*	1791.	18DSF72N*	1236.
—	—	15	15	—	1 1/4	13–27	30	18ESF72B*	1167.	18ESF72W*	1907.	18ESF72N*	1352.
10	10	—	—	—	1 1/4	20–40	50	18ESG72B*	1167.	18ESG72W*	1907.	18ESG72N*	1352.
—	—	15	20	2	—	13–27	30	18FSF72B*	1475.	18FSF72W*	2616.	18FSF72N*	1737.
10	15	25	25	2	—	22–45	50	18FSH72B*	1475.	18FSH72W*	2616.	18FSH72N*	1737.

Note: Hp's shown above are based on the overload amp range for the FLA's (per the National Electric Code) of typical industrial motors. All starter sizes carry one maximum Hp rating.

- ①Dual voltage coils not available in modified starters.
- ②Not available with self-reset option.
- ③NEMA 12 may be field modified for NEMA 3/3R, see page 125.

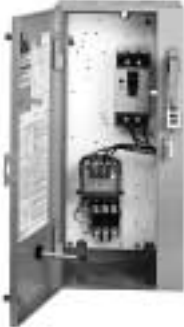
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# Combination Heavy Duty Starters

Selection

## Circuit Breaker with Ambient Compensated Bimetal Overload, Class 18

	<b>Ordering Information</b> <ul style="list-style-type: none"> <li>▶ Replace the (*) from the coil table. Dual voltage coils are wired on high voltage unless specified on order.</li> <li>▶ Heater elements see page 884.</li> <li>▶ Technical Data see page 133–138.</li> <li>▶ Field Modification Kits see pages 121–125.</li> <li>▶ Factory Modifications see pages 126–132.</li> <li>▶ Dimensions see pages 142–144.</li> <li>▶ Wiring Diagrams see page 158.</li> <li>▶ Replacement Parts see page 882.</li> </ul>	<b>Coil Table</b> <table border="1"> <thead> <tr> <th>60Hz Voltage</th> <th>Letter</th> </tr> </thead> <tbody> <tr><td>24 Separate Control</td><td>J</td></tr> <tr><td>120 Separate Control</td><td>F</td></tr> <tr><td>110–120/220–240<sup>①</sup></td><td>A</td></tr> <tr><td>200–208</td><td>D</td></tr> <tr><td>220–240</td><td>G</td></tr> <tr><td>277</td><td>L</td></tr> <tr><td>220–240/440–480<sup>①</sup></td><td>C</td></tr> <tr><td>440–480</td><td>H</td></tr> <tr><td>575–600</td><td>E</td></tr> </tbody> </table>	60Hz Voltage	Letter	24 Separate Control	J	120 Separate Control	F	110–120/220–240 <sup>①</sup>	A	200–208	D	220–240	G	277	L	220–240/440–480 <sup>①</sup>	C	440–480	H	575–600	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
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440–480	H																					
575–600	E																					
For other voltages and frequencies, see Factory Modifications page 129.																						

2  
NEMA and HP  
Rated Control

### Standard Width Enclosure, 3 Phase, 3 Pole

Max Hp									Enclosure											
200 Volts	230 Volts	460 Volts	575 Volts	Cont Amp Rating	NEMA Size	Half Size	Motor Circuit Interrupter ETI Amps		NEMA 1 General Purpose		NEMA 4 Painted Watertight, Dusttight		NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel		NEMA 7 & 9 NEMA 3, 4 Class I Groups C & D; Class II Groups E, F & G Bolted Enclosures Indoor/Outdoor Use		NEMA 12 NEMA 3/3R <sup>③</sup> Industrial Use Weatherproof			
									Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$		
1/2	1/2	1	1	18	0	—	3	18CP92BA*81	978.	18CP92EA*81	1632.	18CP92WA*81	1718.	18CP92HA*81	2076.	18CP92NA*81	1163.			
1	1	3	3	18	0	—	10	18CP92BB*81	978.	18CP92EB*81	1632.	18CP92WB*81	1718.	18CP92HB*81	2076.	18CP92NB*81	1163.			
3	3	5	5	18	0	—	25	18CP92BC*81	978.	18CP92EC*81	1632.	18CP92WC*81	1718.	18CP92HC*81	2076.	18CP92NC*81	1163.			
1/2	1/2	1	1	27	1	—	3	18DP92BA*81	1017.	18DP92EA*81	1668.	18DP92WA*81	1757.	18DP92HA*81	2126.	18DP92NA*81	1202.			
1	1	3	3	27	1	—	10	18DP92BB*81	1017.	18DP92EB*81	1668.	18DP92WB*81	1757.	18DP92HB*81	2126.	18DP92NB*81	1202.			
3	3	7 1/2	7 1/2	27	1	—	25	18DP92BD*81	1017.	18DP92ED*81	1668.	18DP92WD*81	1757.	18DP92HD*81	2126.	18DP92ND*81	1202.			
7 1/2	7 1/2	10	10	27	1	—	30	18DP92BE*81	1017.	18DP92EE*81	1668.	18DP92WE*81	1757.	18DP92HE*81	2126.	18DP92NE*81	1202.			
—	—	15	15	40	—	1 1/4	30	18EP92BF*81	1132.	18EP92EF*81	1778.	18EP92WF*81	1872.	18EP92HF*81	2708.	18EP92NF*81	1317.			
10	10	—	—	40	—	1 1/4	50	18EP92BG*81	1132.	18EP92EG*81	1778.	18EP92WG*81	1872.	18EP92HG*81	2708.	18EP92NG*81	1317.			
7 1/2	10	20	20	45	2	—	40	18FP92BH*81	1441.	18FP92EH*81	2451.	18FP92WH*81	2581.	18FP92HH*81	2839.	18FP92NH*81	1703.			
10	15	25	25	45	2	—	50	18FP92BJ*81	1441.	18FP92EJ*81	2451.	18FP92WJ*81	2581.	18FP92HJ*81	2839.	18FP92NJ*81	1703.			
—	—	30	30	60	—	2 1/2	50	18GP92BK*81	1926.	18GP92EK*81	3717.	18GP92WK*81	3914.	18GP92HK*81	3766.	18GP92NK*81	2265.			
15	20	—	—	60	—	2 1/2	100	18GP92BL*81	1926.	18GP92EL*81	3717.	18GP92WL*81	3914.	18GP92HL*81	3766.	18GP92NL*81	2265.			
—	—	30	30	60	3	—	50	18HP92BM*81	2095.	18HP92EM*81	3879.	18HP92WM*81	4083.	18HP92HM*81	4692.	18HP92NM*81	2434.			
25	30	50	50	90	3	—	100	18HP92BN*81	2095.	18HP92EN*81	3879.	18HP92WN*81	4083.	18HP92HN*81	4692.	18HP92NN*81	2434.			
30	40	75	75	115	—	3 1/2	125	18IP92BP*81	4291.	18IP92EP*81	6491.	18IP92WP*81	6833.	18IP92HP*81	6001.	18IP92NP*81	5231.			
40	50	100	100	135	4	—	150	18JP92BR*81	4599.	18JP92ER*81	6783.	18JP92WR*81	7142.	18JP92HR*81	7311.	18JP92NR*81	5539.			
50	75	150	150	210	—	4 1/2	250	ESP100 Solid State Overload Standard, see page 66 for Selection												
50	75	150	200	270	5	—	250													
75	100	200	—	270	5	—	400H													
100	125	250	300	540	6	—	600L													
150	200	400	400	540	6	—	800L													
—	300	600	600	810	7	—	1000													
—	450	900	900	1215	8	—	1600													


①Dual voltage coils not available in modified starters.  
 ②For NEMA 4X fiberglass enclosure, change 7th character of catalog number to F.  
 Example: 18CP92FA\*81.  
 Price same as stainless steel.  
 ③NEMA 12 may be field modified for NEMA 3/3R, see page 125.



# Combination Heavy Duty Starters

Selection

## Circuit Breaker with Ambient Compensated Bimetal Overload, Class 18

	<b>Ordering Information</b> <ul style="list-style-type: none"> <li>▶ Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.</li> <li>▶ Heater elements see page 884.</li> <li>▶ Technical Data see pages 133–138.</li> <li>▶ Field Modification Kits see pages 121–125.</li> <li>▶ Factory Modifications see pages 126–132.</li> <li>▶ Dimensions see pages 142–144.</li> <li>▶ Wiring Diagrams see page 158.</li> <li>▶ Replacement Parts see page 882.</li> </ul>	<b>Coil Table</b> <table border="1"> <thead> <tr> <th>60Hz Voltage</th> <th>Letter</th> </tr> </thead> <tbody> <tr><td>24 Separate Control</td><td>J</td></tr> <tr><td>120 Separate Control</td><td>F</td></tr> <tr><td>110–120/220–240<sup>ⓐ</sup></td><td>A</td></tr> <tr><td>200–208</td><td>D</td></tr> <tr><td>220–240</td><td>G</td></tr> <tr><td>277</td><td>L</td></tr> <tr><td>220–240/440–480<sup>ⓐ</sup></td><td>C</td></tr> <tr><td>440–480</td><td>H</td></tr> <tr><td>575–600</td><td>E</td></tr> </tbody> </table> <p>For other voltages and frequencies, see Factory Modifications page 129.</p>	60Hz Voltage	Letter	24 Separate Control	J	120 Separate Control	F	110–120/220–240 <sup>ⓐ</sup>	A	200–208	D	220–240	G	277	L	220–240/440–480 <sup>ⓐ</sup>	C	440–480	H	575–600	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
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110–120/220–240 <sup>ⓐ</sup>	A																					
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220–240	G																					
277	L																					
220–240/440–480 <sup>ⓐ</sup>	C																					
440–480	H																					
575–600	E																					

### Extra Wide Enclosure, 3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Cont Amp Rating	Motor Circuit Interrupter ETI Amps	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>ⓐ</sup> Industrial Use Weatherproof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1/2	1	1	0	—	18	3	18CP82BA*81	1171.	18CP82WA*81	2296.	18CP82NA*81	1510.
1	1	3	3	0	—	18	10	18CP82BB*81	1171.	18CP82WB*81	2296.	18CP82NB*81	1510.
3	3	5	5	0	—	18	25	18CP82BC*81	1171.	18CP82WC*81	2296.	18CP82NC*81	1510.
1/2	1/2	1	1	1	—	27	3	18DP82BA*81	1210.	18DP82WA*81	2334.	18DP82NA*81	1549.
1	1	3	3	1	—	27	10	18DP82BB*81	1210.	18DP82WB*81	2334.	18DP82NB*81	1549.
3	3	7 1/2	7 1/2	1	—	27	25	18DP82BD*81	1210.	18DP82WD*81	2334.	18DP82ND*81	1549.
7 1/2	7 1/2	10	10	1	—	27	30	18DP82BE*81	1210.	18DP82WE*81	2334.	18DP82NE*81	1549.
—	—	15	15	—	1 1/4	40	30	18EP82BF*81	1325.	18EP82WF*81	2450.	18EP82NF*81	1664.
10	10	—	—	—	1 1/4	40	50	18EP82BG*81	1325.	18EP82WG*81	2450.	18EP82NG*81	1664.
7 1/2	10	20	20	2	—	45	40	18FP82BH*81	1633.	18FP82WH*81	3159.	18FP82NH*81	2049.
10	15	25	25	2	—	45	50	18FP82BJ*81	1633.	18FP82WJ*81	3159.	18FP82NJ*81	2049.
—	—	30	30	—	2 1/2	60	50	18GP82BK*81	2311.	18GP82WK*81	5069.	18GP82NK*81	2958.
15	20	—	—	—	2 1/2	60	100	18GP82BL*81	2311.	18GP82WL*81	5069.	18GP82NL*81	2958.
—	—	30	30	3	—	90	50	18HP82BM*81	2481.	18HP82WM*81	5239.	18HP82NM*81	3128.
25	30	50	50	3	—	90	100	18HP82BN*81	2481.	18HP82WN*81	5239.	18HP82NN*81	3128.
30	40	75	—	—	3 1/2	115	125	18IP82BP*81	4676.	18IP82WP*81	7989.	18IP82NP*81	5924.
40	50	100	100	4	—	135	150	18JP82BR*81	4984.	18JP82WR*81	8297.	18JP82NR*81	6233.

### Horizontal Compact Enclosure, 3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Cont Amp Rating	Motor Circuit Interrupter ETI Amps	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel		NEMA 12 NEMA 3/3R <sup>ⓐ</sup> Industrial Use Weatherproof	
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1/2	1	1	0	—	18	3	18CP72BA*81	978.	18CP72WA*81	1718.	18CP72NA*81	1163.
1	1	3	3	0	—	18	10	18CP72BB*81	978.	18CP72WB*81	1718.	18CP72NB*81	1163.
3	3	5	5	0	—	18	25	18CP72BC*81	978.	18CP72WC*81	1718.	18CP72NC*81	1163.
1/2	1/2	1	1	1	—	27	3	18DP72BA*81	1017.	18DP72WA*81	1757.	18DP72NA*81	1202.
1	1	3	3	1	—	27	10	18DP72BB*81	1017.	18DP72WB*81	1757.	18DP72NB*81	1202.
3	3	7 1/2	7 1/2	1	—	27	25	18DP72BD*81	1017.	18DP72WD*81	1757.	18DP72ND*81	1202.
7 1/2	7 1/2	10	10	1	—	27	30	18DP72BE*81	1017.	18DP72WE*81	1757.	18DP72NE*81	1202.
—	—	15	15	—	1 1/4	40	30	18EP72BF*81	1132.	18EP72WF*81	1872.	18EP72NF*81	1317.
10	10	—	—	—	1 1/4	40	50	18EP72BG*81	1132.	18EP72WG*81	1872.	18EP72NG*81	1317.
7 1/2	10	20	20	2	—	45	40	18FP72BH*81	1441.	18FP72WH*81	2581.	18FP72NH*81	1703.
10	15	25	25	2	—	45	50	18FP72BJ*81	1441.	18FP72WJ*81	2581.	18FP72NJ*81	1703.

<sup>ⓐ</sup>Dual voltage coils not available in modified starters.  
<sup>ⓑ</sup>NEMA 12 may be field modified for NEMA 3/3R, see page 125.

2  
NEMA and HP  
Rated Control