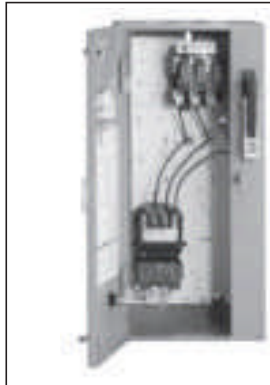


# Combination Heavy Duty Starters Non-Fusible with Solid State Overload, Class 17

## Selection



### Ordering Information

- ▶ Replace the (\*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- ▶ For Fusible Styles see page 8/21.
- ▶ Field Modification Kits see page 8/82.
- ▶ Factory Modifications see page 8/95.
- ▶ Dimensions see page 8/118.
- ▶ Wiring Diagrams see page 8/132.
- ▶ Replacement Parts see page 8/157.

### 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>①</sup>	C
440-480	H
575-600	E

For other voltages and frequencies, see Factory Modifications page 8/95.

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

Max Hp						Overload		Disc. Amp Range		Enclosure <sup>②</sup>										
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Amp Range	Frame Size	Amp Range	NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) <sup>①</sup>	NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant	NEMA 12 NEMA 3/3R <sup>②</sup> Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/8	1/4	1/2	1/2	0	—	0.25-1	A	30	17CUA92B*	17CUA92W*	17CUA92F*	17CUA92N*	17CUA92B*	—	17CUA92W*	—	17CUA92F*	—	17CUA92N*	—
1/2	1/2	1 1/2	2	0	—	0.75-3.4	A	30	17CUB92B*	17CUB92W*	17CUB92F*	17CUB92N*	17CUB92B*	—	17CUB92W*	—	17CUB92F*	—	17CUB92N*	—
2	2	5	5	0	—	3-12	A1	30	17CUC92B*	17CUC92W*	17CUC92F*	17CUC92N*	17CUC92B*	—	17CUC92W*	—	17CUC92F*	—	17CUC92N*	—
3	3	—	—	0	—	5.5-22	A1	30	17CUD92B*	17CUD92W*	17CUD92F*	17CUD92N*	17CUD92B*	—	17CUD92W*	—	17CUD92F*	—	17CUD92N*	—
1/8	1/4	1/2	1/2	1	—	0.25-1	A	30	17DUA92B*	17DUA92W*	17DUA92F*	17DUA92N*	17DUA92B*	—	17DUA92W*	—	17DUA92F*	—	17DUA92N*	—
1/2	1/2	1 1/2	2	1	—	0.75-3.4	A	30	17DUB92B*	17DUB92W*	17DUB92F*	17DUB92N*	17DUB92B*	—	17DUB92W*	—	17DUB92F*	—	17DUB92N*	—
2	2	5	5	1	—	3-12	A1	30	17DUC92B*	17DUC92W*	17DUC92F*	17DUC92N*	17DUC92B*	—	17DUC92W*	—	17DUC92F*	—	17DUC92N*	—
3	3	10	10	1	—	5.5-22	A1	30	17DUD92B*	17DUD92W*	17DUD92F*	17DUD92N*	17DUD92B*	—	17DUD92W*	—	17DUD92F*	—	17DUD92N*	—
7 1/2	7 1/2	—	—	1	—	10-40	A1	60	17DUE92B*	17DUE92W*	17DUE92F*	17DUE92N*	17DUE92B*	—	17DUE92W*	—	17DUE92F*	—	17DUE92N*	—
10	10	15	15	—	1 1/4	10-40	A1	60	17EUE92B*	17EUE92W*	17EUE92F*	17EUE92N*	17EUE92B*	—	17EUE92W*	—	17EUE92F*	—	17EUE92N*	—
10	15	25	25	2	—	13-52	B	60	17FUF92B*	17FUF92W*	17FUF92F*	17FUF92N*	17FUF92B*	—	17FUF92W*	—	17FUF92F*	—	17FUF92N*	—
15	20	30	30	—	2 1/2	25-100	B	100 <sup>③</sup>	17GUG92B*	17GUG92W*	17GUG92F*	17GUG92N*	17GUG92B*	—	17GUG92W*	—	17GUG92F*	—	17GUG92N*	—
20 <sup>④</sup>	25 <sup>⑤</sup>	50	50	3	—	25-100	B	100	17HUG92B*	17HUG92W*	17HUG92F*	17HUG92N*	17HUG92B*	—	17HUG92W*	—	17HUG92F*	—	17HUG92N*	—
30	40	75	75	—	3 1/2	50-200	B	200	17IUH92B*	17IUH92W*	17IUH92F*	17IUH92N*	17IUH92B*	—	17IUH92W*	—	17IUH92F*	—	17IUH92N*	—
40	50	100	100	4	—	50-200	B	200	17JUH92B*	17JUH92W*	17JUH92F*	17JUH92N*	17JUH92B*	—	17JUH92W*	—	17JUH92F*	—	17JUH92N*	—
75	100	200	200	5	—	55-250	—	400 <sup>⑥</sup>	17LPU92B*	17LPU92E* <sup>⑦</sup>	—	—	17LPU92B*	—	17LPU92E* <sup>⑦</sup>	—	—	—	17LPU92N*	—
150	200	400	400	6	—	160-630	—	800	17MPX92B*	17MPX92E* <sup>⑦</sup>	—	—	17MPX92B*	—	17MPX92E* <sup>⑦</sup>	—	—	—	17MPX92N*	—
—	300	600	600	7 <sup>⑧</sup>	—	400-1220	A1+CT	1200	17NUN92B*	—	—	—	17NUN92B*	—	—	—	—	—	17NUN92N*	—
—	450	900	900	8 <sup>⑧</sup>	—	400-1220	A1+CT	1600	17PUN92B*	—	—	—	17PUN92B*	—	—	—	—	—	17PUN92N*	—

### Standard Width Enclosure, Single Phase, (Catalog Numbers are three phase, wire for single phase in the field)

Max Hp				Overload		Disc. Amp Range		Enclosure <sup>②</sup>										
115 Volts	208 Volts	NEMA Size	Half Size	Amp Range <sup>③</sup>	Frame Size	Amp Range	NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) <sup>①</sup>	NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant	NEMA 12 NEMA 3/3R <sup>②</sup> Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/8	1/4	0	—	0.75-3.4	A	30	17CUB92B*	17CUB92W*	17CUB92F*	17CUB92N*	17CUB92B*	—	17CUB92W*	—	17CUB92F*	—	17CUB92N*	—
1/2	1/2	0	—	3-12	A1	30	17CUC92B*	17CUC92W*	17CUC92F*	17CUC92N*	17CUC92B*	—	17CUC92W*	—	17CUC92F*	—	17CUC92N*	—
1	2	0	—	5.5-22	A1	30	17CUD92B*	17CUD92W*	17CUD92F*	17CUD92N*	17CUD92B*	—	17CUD92W*	—	17CUD92F*	—	17CUD92N*	—
1/8	1/4	1	—	0.75-3.4	A	30	17DUB92B*	17DUB92W*	17DUB92F*	17DUB92N*	17DUB92B*	—	17DUB92W*	—	17DUB92F*	—	17DUB92N*	—
1/2	1/2	1	—	3-12	A1	30	17DUC92B*	17DUC92W*	17DUC92F*	17DUC92N*	17DUC92B*	—	17DUC92W*	—	17DUC92F*	—	17DUC92N*	—
1	2	1	—	5.5-22	A1	30	17DUD92B*	17DUD92W*	17DUD92F*	17DUD92N*	17DUD92B*	—	17DUD92W*	—	17DUD92F*	—	17DUD92N*	—

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

<sup>①</sup>Dual voltage coils not available in modified starters or in starter sizes 5-8.

<sup>②</sup>For conduit hubs and conversion instructions, see page 8/88.

<sup>③</sup>For 60A disconnect, order fusible cat. no. page 8/21.

<sup>④</sup>For 25 HP and 200A disconnect, order fusible cat. no. page 8/21.

<sup>⑤</sup>For 30HP and 200A disconnect, order fusible cat. no. page 8/21.

<sup>⑥</sup>For 600A disconnect, order fusible cat. no. page 8/21.

<sup>⑦</sup>Enclosure is NEMA Type 4 (painted steel).

<sup>⑧</sup>For a single phase motor, multiply the motor nameplate by 0.75 and set the OL dial to the resulting value.

<sup>⑨</sup>F coil 100-250V AC 50/60Hz, or DC, H coil 150-500V AC 50/60Hz, or DC

<sup>⑩</sup>Only available F coil 100-250V AC 50/60Hz, or DC

<sup>⑪</sup>For 316 Stainless Steel option see page 8/98.

<sup>⑫</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.

# Combination Heavy Duty Starters Non-Fusible with Solid State Overload, Class 17

Selection



## Ordering Information

- ▶ Replace the (\*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- ▶ For Fusible Styles see page 8/22.
- ▶ Field Modification Kits see page 8/82.
- ▶ Factory Modifications see page 8/95.
- ▶ Dimensions see page 8/118.
- ▶ Wiring Diagrams see page 8/132.
- ▶ Replacement Parts see page 8/157.

## 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>①</sup>	C
440-480	H
575-600	E

For other voltages and frequencies, see Factory Modifications page 8/95.

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

Hp				NEMA Size	Half Size	Overload		Disc. Amp Range	Enclosure <sup>②</sup>						
200 Volts	230 Volts	460 Volts	575 Volts			Amp Range	Frame Size		NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>③</sup> Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) <sup>④</sup>	NEMA 12 NEMA 3/3R <sup>⑤</sup> Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number	List Price \$	Catalog Number	List Price \$
1/8	1/8	1/8	1/2	0	—	0.25-1	A	30	17CUA82B*		17CUA82W*		17CUA82N*		
1/4	1/4	1 1/2	2	0	—	0.75-3.4	A	30	17CUB82B*		17CUB82W*		17CUB82N*		
2	2	5	5	0	—	3-12	A1	30	17CUC82B*		17CUC82W*		17CUC82N*		
3	3	—	—	0	—	5.5-22	A1	30	17CUD82B*		17CUD82W*		17CUD82N*		
1/8	1/8	1/8	1/2	1	—	0.25-1	A	30	17DUA82B*		17DUA82W*		17DUA82N*		
1/4	1/4	1 1/2	2	1	—	0.75-3.4	A	30	17DUB82B*		17DUB82W*		17DUB82N*		
2	2	5	5	1	—	3-12	A1	30	17DUC82B*		17DUC82W*		17DUC82N*		
3	3	10	10	1	—	5.5-22	A1	30	17DUD82B*		17DUD82W*		17DUD82N*		
7 1/2	7 1/2	—	—	1	—	10-40	A1	60	17DUE82B*		17DUE82W*		17DUE82N*		
10	10	15	15	—	1 1/4	10-40	A1	60	17EUE82B*		17EUE82W*		17EUE82N*		
10	15	25	25	2	—	13-52	B	60	17FUF82B*		17FUF82W*		17FUF82N*		
15	20	30	30	—	2 1/2	25-100	B	100 <sup>⑥</sup>	17GUG82B*		17GUG82W*		17GUG82N*		
20 <sup>⑦</sup>	25 <sup>⑧</sup>	50	50	3	—	25-100	B	100	17HUG82B*		17HUG82W*		17HUG82N*		

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

<sup>①</sup>Dual voltage coils not available in modified starters.

<sup>②</sup>For conduit hubs and conversion instructions, see page 8/88.

<sup>③</sup>For 60A disconnect, order fusible cat. no. page 8/22.

<sup>④</sup>For 25 HP and 200A disconnect, order fusible cat. no. page 8/22.

<sup>⑤</sup>For 30HP and 200A disconnect, order fusible cat. no. page 8/22.


<sup>⑥</sup>For 316 Stainless Steel option see page 8/98.

<sup>⑦</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.

# Combination Heavy Duty Starters

## Non-Fusible with Ambient Compensated Bimetal Overload, Class 17

### Selection

	<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 8/150. (3 required)</li> <li>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/118.</li> <li>▶ Wiring Diagrams see page 8/132.</li> <li>▶ Replacement Parts see page 8/157.</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> <p>For other voltages and frequencies, see Factory Modifications page 8/95.</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	E
	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																					

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

Max Hp				Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Enclosure			
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional) <sup>⑤</sup>	NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant	NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight
Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$		
3	3	5	5	18	0	—	30	17CP92B*81	17CP92W*81	17CP92F*81	17CP92N*81
7½ <sup>③</sup>	7½ <sup>③</sup>	10	10	27	1	—	30	17DP92B*81	17DP92W*81	17DP92F*81	17DP92N*81
10	10	15	15	40	—	1¼	60	17EP92B*81	17EP92W*81	17EP92F*81	17EP92N*81
10	15	25	25	45	2	—	60	17FP92B*81	17FP92W*81	17FP92F*81	17FP92N*81
15	20	30	30	60	—	2½	100	17GP92B*81	17GP92W*81	17GP92F*81	17GP92N*81
25 <sup>④</sup>	30 <sup>④</sup>	50	50	90	3	—	100	17HP92B*81	17HP92W*81	17HP92F*81	17HP92N*81
30	40	75	75	115	—	3½	200	17IP92B*81	17IP92W*81	17IP92F*81	17IP92N*81
40	50	100	100	135	4	—	200	17JP92B*81	17JP92W*81	17JP92F*81	17JP92N*81

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

Max Hp				Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Enclosure			
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional) <sup>⑤</sup>	NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$				
3	3	5	5	18	0	—	30	17CP82B*81	17CP82W*81	17CP82N*81	
7½ <sup>③</sup>	7½ <sup>③</sup>	10	10	27	1	—	30	17DP82B*81	17DP82W*81	17DP82N*81	
10	10	15	15	40	—	1¼	60	17EP82B*81	17EP82W*81	17EP82N*81	
10	15	25	25	45	2	—	60	17FP82B*81	17FP82W*81	17FP82N*81	
15	20	30	30	60	—	2½	100	17GP82B*81	17GP82W*81	17GP82N*81	
25 <sup>④</sup>	30 <sup>④</sup>	50	50	90	3	—	100	17HP82B*81	17HP82W*81	17HP82N*81	

### Standard Width Enclosure, Single Phase, (Catalog Numbers are three phase, wire for single phase in the field)

Max Hp		Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Enclosure			
115 Volts	208/230 Volts					NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional) <sup>⑤</sup>	NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant	NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight
Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$		
1	2	18	0	—	30	17CP92B*81	17CP92W*81	17CP92F*81	17CP92N*81
2	3	27	1	—	30	17DP92B*81	17DP92W*81	17DP92F*81	17DP92N*81
3	5	35	1P	—	60	17EP92B*81	17EP92W*81	17EP92F*81	17EP92N*81
3	7½	45	2	—	60	17FP92B*81	17FP92W*81	17FP92F*81	17FP92N*81
5	10	60	—	2½	100	17GP92B*81	17GP92W*81	17GP92F*81	17GP92N*81

**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.  
②For conduit hubs and conversion instructions, see page 8/88.

③For 60A disc, order fusible cat. no. page 8/23.  
④For 200A disc, order fusible cat. no. page 8/23.  
⑤For 316 Stainless Steel option see page 8/98.

# Combination Heavy Duty Starters

## Fusible with Solid State Overload, Class 17

Selection



### Ordering Information

- Replace the (\*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Field Modification Kits see page 8/82.
- Factory Modifications see page 8/95.
- Dimensions see page 8/118.
- Wiring Diagrams see page 8/132.
- Replacement Parts see page 8/157.

### Coil Table

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

For other voltages and frequencies, see Factory Modifications page 8/95.

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

Max Hp				NEMA Size	Half Size	Overload			Disc. Amp Range	Fuse Clip Amp/Volts	Enclosure ④									
200 Volts	230 Volts	460 Volts	575 Volts			Amp Range	Frame Size				NEMA 1 General Purpose	NEMA 4/4X Stainless ② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) ⑤	NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant	NEMA 12 NEMA 3/3R ⑥ Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/8	1/8	—	—	0	—	0.25–1	A	30	30A/250V	17CUA92B*10	17CUA92W*10	17CUA92F*10	17CUA92N*10	17CUA92N*10	17CUA92N*10	17CUA92N*10	17CUA92N*10	17CUA92N*10	17CUA92N*10	17CUA92N*10
—	—	1/4	1/4	0	—	0.25–1	A	30	30A/600V	17CUA92B*11	17CUA92W*11	17CUA92F*11	17CUA92N*11	17CUA92N*11	17CUA92N*11	17CUA92N*11	17CUA92N*11	17CUA92N*11	17CUA92N*11	17CUA92N*11
1/2	3/4	—	—	0	—	0.75–3.4	A	30	30A/250V	17CUB92B*10	17CUB92W*10	17CUB92F*10	17CUB92N*10	17CUB92N*10	17CUB92N*10	17CUB92N*10	17CUB92N*10	17CUB92N*10	17CUB92N*10	17CUB92N*10
—	—	1 1/2	2	0	—	0.75–3.4	A	30	30A/600V	17CUB92B*11	17CUB92W*11	17CUB92F*11	17CUB92N*11	17CUB92N*11	17CUB92N*11	17CUB92N*11	17CUB92N*11	17CUB92N*11	17CUB92N*11	17CUB92N*11
2	2	—	—	0	—	3–12	A1	30	30A/250V	17CUC92B*10	17CUC92W*10	17CUC92F*10	17CUC92N*10	17CUC92N*10	17CUC92N*10	17CUC92N*10	17CUC92N*10	17CUC92N*10	17CUC92N*10	17CUC92N*10
—	—	5	5	0	—	3–12	A1	30	30A/600V	17CUC92B*11	17CUC92W*11	17CUC92F*11	17CUC92N*11	17CUC92N*11	17CUC92N*11	17CUC92N*11	17CUC92N*11	17CUC92N*11	17CUC92N*11	17CUC92N*11
3	3	—	—	0	—	5.5–22	A1	30	30A/250V	17CUD92B*10	17CUD92W*10	17CUD92F*10	17CUD92N*10	17CUD92N*10	17CUD92N*10	17CUD92N*10	17CUD92N*10	17CUD92N*10	17CUD92N*10	17CUD92N*10
—	—	10	10	0	—	5.5–22	A1	30	30A/600V	17CUD92B*11	17CUD92W*11	17CUD92F*11	17CUD92N*11	17CUD92N*11	17CUD92N*11	17CUD92N*11	17CUD92N*11	17CUD92N*11	17CUD92N*11	17CUD92N*11
1/8	1/8	—	—	1	—	0.25–1	A	30	30A/250V	17DUA92B*10	17DUA92W*10	17DUA92F*10	17DUA92N*10	17DUA92N*10	17DUA92N*10	17DUA92N*10	17DUA92N*10	17DUA92N*10	17DUA92N*10	17DUA92N*10
—	—	1/4	1/4	1	—	0.25–1	A	30	30A/600V	17DUA92B*11	17DUA92W*11	17DUA92F*11	17DUA92N*11	17DUA92N*11	17DUA92N*11	17DUA92N*11	17DUA92N*11	17DUA92N*11	17DUA92N*11	17DUA92N*11
1/2	3/4	—	—	1	—	0.75–3.4	A	30	30A/250V	17DUB92B*10	17DUB92W*10	17DUB92F*10	17DUB92N*10	17DUB92N*10	17DUB92N*10	17DUB92N*10	17DUB92N*10	17DUB92N*10	17DUB92N*10	17DUB92N*10
—	—	1 1/2	2	1	—	0.75–3.4	A	30	30A/600V	17DUB92B*11	17DUB92W*11	17DUB92F*11	17DUB92N*11	17DUB92N*11	17DUB92N*11	17DUB92N*11	17DUB92N*11	17DUB92N*11	17DUB92N*11	17DUB92N*11
2	2	—	—	1	—	3–12	A1	30	30A/250V	17DUC92B*10	17DUC92W*10	17DUC92F*10	17DUC92N*10	17DUC92N*10	17DUC92N*10	17DUC92N*10	17DUC92N*10	17DUC92N*10	17DUC92N*10	17DUC92N*10
—	—	5	5	1	—	3–12	A1	30	30A/600V	17DUC92B*11	17DUC92W*11	17DUC92F*11	17DUC92N*11	17DUC92N*11	17DUC92N*11	17DUC92N*11	17DUC92N*11	17DUC92N*11	17DUC92N*11	17DUC92N*11
3	3	—	—	1	—	5.5–22	A1	30	30A/250V	17DUD92B*10	17DUD92W*10	17DUD92F*10	17DUD92N*10	17DUD92N*10	17DUD92N*10	17DUD92N*10	17DUD92N*10	17DUD92N*10	17DUD92N*10	17DUD92N*10
—	—	10	10	1	—	5.5–22	A1	30	30A/600V	17DUD92B*11	17DUD92W*11	17DUD92F*11	17DUD92N*11	17DUD92N*11	17DUD92N*11	17DUD92N*11	17DUD92N*11	17DUD92N*11	17DUD92N*11	17DUD92N*11
7 1/2	7 1/2	—	—	1	—	10–40	A1	60	60A/250V	17DUE92B*12	17DUE92W*12	17DUE92F*12	17DUE92N*12	17DUE92N*12	17DUE92N*12	17DUE92N*12	17DUE92N*12	17DUE92N*12	17DUE92N*12	17DUE92N*12
—	—	15	15	—	1 1/4	10–40	A1	60	60A/600V	17EUE92B*13	17EUE92W*13	17EUE92F*13	17EUE92N*13	17EUE92N*13	17EUE92N*13	17EUE92N*13	17EUE92N*13	17EUE92N*13	17EUE92N*13	17EUE92N*13
10	10	—	—	—	1 1/4	10–40	A1	60	60A/250V	17EUE92B*12	17EUE92W*12	17EUE92F*12	17EUE92N*12	17EUE92N*12	17EUE92N*12	17EUE92N*12	17EUE92N*12	17EUE92N*12	17EUE92N*12	17EUE92N*12
10	15	—	—	2	—	13–52	B	60	60A/250V	17FUF92B*12	17FUF92W*12	17FUF92F*12	17FUF92N*12	17FUF92N*12	17FUF92N*12	17FUF92N*12	17FUF92N*12	17FUF92N*12	17FUF92N*12	17FUF92N*12
—	—	25	25	2	—	13–52	B	60	60A/600V	17FUF92B*13	17FUF92W*13	17FUF92F*13	17FUF92N*13	17FUF92N*13	17FUF92N*13	17FUF92N*13	17FUF92N*13	17FUF92N*13	17FUF92N*13	17FUF92N*13
—	—	—	30	—	2 1/2	13–52	B	60	60A/600V	17GUF92B*13	17GUF92W*13	17GUF92F*13	17GUF92N*13	17GUF92N*13	17GUF92N*13	17GUF92N*13	17GUF92N*13	17GUF92N*13	17GUF92N*13	17GUF92N*13
—	—	30	—	—	2 1/2	13–52	B	100	100A/600V	17GUF92B*15	17GUF92W*15	17GUF92F*15	17GUF92N*15	17GUF92N*15	17GUF92N*15	17GUF92N*15	17GUF92N*15	17GUF92N*15	17GUF92N*15	17GUF92N*15
15	20	—	—	—	2 1/2	25–100	B	100	100A/250V	17GUG92B*14	17GUG92W*14	17GUG92F*14	17GUG92N*14	17GUG92N*14	17GUG92N*14	17GUG92N*14	17GUG92N*14	17GUG92N*14	17GUG92N*14	17GUG92N*14
20	25	—	—	3	—	25–100	B	100	100A/250V	17HUG92B*14	17HUG92W*14	17HUG92F*14	17HUG92N*14	17HUG92N*14	17HUG92N*14	17HUG92N*14	17HUG92N*14	17HUG92N*14	17HUG92N*14	17HUG92N*14
—	—	50	50	3	—	25–100	B	100	100A/600V	17HUG92B*15	17HUG92W*15	17HUG92F*15	17HUG92N*15	17HUG92N*15	17HUG92N*15	17HUG92N*15	17HUG92N*15	17HUG92N*15	17HUG92N*15	17HUG92N*15
25	30	—	—	3	—	25–100	B	200	200A/250V	17HUG92B*16	17HUG92W*16	17HUG92F*16	17HUG92N*16	17HUG92N*16	17HUG92N*16	17HUG92N*16	17HUG92N*16	17HUG92N*16	17HUG92N*16	17HUG92N*16
30	40	—	—	—	3 1/2	50–200	B	200	200A/250V	17IUH92B*16	17IUH92W*16	17IUH92F*16	17IUH92N*16	17IUH92N*16	17IUH92N*16	17IUH92N*16	17IUH92N*16	17IUH92N*16	17IUH92N*16	17IUH92N*16
—	—	75	75	—	3 1/2	50–200	B	200	200A/600V	17IUH92B*17	17IUH92W*17	17IUH92F*17	17IUH92N*17	17IUH92N*17	17IUH92N*17	17IUH92N*17	17IUH92N*17	17IUH92N*17	17IUH92N*17	17IUH92N*17
40	50	—	—	4	—	50–200	B	200	200A/250V	17JUH92B*16	17JUH92W*16	17JUH92F*16	17JUH92N*16	17JUH92N*16	17JUH92N*16	17JUH92N*16	17JUH92N*16	17JUH92N*16	17JUH92N*16	17JUH92N*16
—	—	100	100	4	—	50–200	B	200	200A/600V	17JUH92B*17	17JUH92W*17	17JUH92F*17	17JUH92N*17	17JUH92N*17	17JUH92N*17	17JUH92N*17	17JUH92N*17	17JUH92N*17	17JUH92N*17	17JUH92N*17
75	100	—	—	5	—	55–250	—	400	400A/250V	17LPU92B*18	17LPU92W*18 ④	—	17LPU92N*18	17LPU92N*18	17LPU92N*18	17LPU92N*18	17LPU92N*18	17LPU92N*18	17LPU92N*18	17LPU92N*18
—	100	—	—	5	—	55–250	—	600	600A/250V ③	17LPU92B*20	17LPU92W*20 ④	—	17LPU92N*20	17LPU92N*20	17LPU92N*20	17LPU92N*20	17LPU92N*20	17LPU92N*20	17LPU92N*20	17LPU92N*20
—	—	—	125	5	—	55–250	—	400	200A/600V	17LPU92B*17	17LPU92W*17 ④	—	17LPU92N*17	17LPU92N*17	17LPU92N*17	17LPU92N*17	17LPU92N*17	17LPU92N*17	17LPU92N*17	17LPU92N*17
—	—	200	200	5	—	55–250	—	400	400A/600V	17LPU92B*19	17LPU92W*19 ④	—	17LPU92N*19	17LPU92N*19	17LPU92N*19	17LPU92N*19	17LPU92N*19	17LPU92N*19	17LPU92N*19	17LPU92N*19
—	—	200	—	5	—	55–250	—	600	600A/600V ③	17LPU92B*21	17LPU92W*21 ④	—	17LPU92N*21	17LPU92N*21	17LPU92N*21	17LPU92N*21	17LPU92N*21	17LPU92N*21	17LPU92N*21	17LPU92N*21
150	200	—	—	6	—	160–630	—	600	600A/250V	17MPX92B*20	17MPX92W*20 ④	—	17MPX92N*20	17MPX92N*20	17MPX92N*20	17MPX92N*20	17MPX92N*20	17MPX92N*20	17MPX92N*20	17MPX92N*20
—	—	400	400	6	—	160–630	—	600	600A/600V	17MPX92B*21	17MPX92W*21 ④	—	17MPX92N*21	17MPX92N*21	17MPX92N*21	17MPX92N*21	17MPX92N*21	17MPX92N*21	17MPX92N*21	17MPX92N*21
—	—	400	400	6	—	160–630	—	800	800A/600V	17MPX92B*23	17MPX92W*23 ④	—	17MPX92N*23	17MPX92N*23	17MPX92N*23	17MPX92N*23	17MPX92N*23	17MPX92N*23	17MPX92N*23	17MPX92N*23
—	—	600	600	7 ⑥	—	400–1220	A1+CT	1200	1200A/600V	17NUN92B*23	—	—	17NUN92N*23	17NUN92N*23	17NUN92N*23	17NUN92N*23	17NUN92N*23	17NUN92N*23	17NUN92N*23	17NUN92N*23
—	—	900	900	8 ⑦	—	400–1220	A1+CT	1600	1600A/600V	17PUN92B*25	—	—	17PUN92N*25	17PUN92N*25	17PUN92N*25	17PUN92N*25	17PUN92N*25	17PUN92N*25	17PUN92N*25	17PUN92N*25


**Note:** All starters sizes carry one maximum Hp rating (per the National Electric Code).  
 ① Dual voltage coils not available in modified starters or in starter sizes 5–8.  
 ② For conduit hubs and conversion instructions, see page 8/88.

③ Use Class J fuses only.  
 ④ Enclosure is NEMA Type 4 (painted steel).  
 ⑤ Single phase wiring page 8/131.  
 ⑥ F coil 100–250V AC 50/60Hz, or DC, H coil 150–500V AC 50/60Hz, or DC

⑦ Only available F coil 100–250V AC 50/60Hz, or DC  
 ⑧ For 316 Stainless Steel option see page 8/98.  
 ⑨ 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.

# Combination Heavy Duty Starters Fusible with Solid State Overload, Class 17

## Selection

	<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>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/118.</li> <li>▶ Wiring Diagrams see page 8/132.</li> <li>▶ Replacement Parts see page 8/157.</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> <p>For other voltages and frequencies, see Factory Modifications page 8/95.</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	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
120 Separate Control	F																					
110–120/220–240 <sup>①</sup>	A																					
200–208	D																					
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277	L																					
220–240/440–480 <sup>①</sup>	C																					
440–480	H																					
575–600	E																					

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

Max Hp				NEMA Size	Half Size	Overload		Disc. Amp Range	Fuse Clip Amp/Volts	Enclosure <sup>④</sup>					
200 Volts	230 Volts	460 Volts	575 Volts			Amp Range	Frame Size			NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight, 304 Stainless Steel 316 Stainless Steel (Optional) <sup>③</sup>	NEMA 12 NEMA 3/3R <sup>②</sup> Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number	List Price \$	Catalog Number
1/6	1/6	—	—	0	—	0.25–1	A	30	30A/250V	17CUA82B*10		17CUA82W*10		17CUA82N*10	
—	—	1/3	1/2	0	—	0.25–1	A	30	30A/600V	17CUA82B*11		17CUA82W*11		17CUA82N*11	
1/2	3/4	—	—	0	—	0.75–3.4	A	30	30A/250V	17CUB82B*10		17CUB82W*10		17CUB82N*10	
—	—	1 1/2	2	0	—	0.75–3.4	A	30	30A/600V	17CUB82B*11		17CUB82W*11		17CUB82N*11	
2	2	—	—	0	—	3–12	A1	30	30A/250V	17CUC82B*10		17CUC82W*10		17CUC82N*10	
—	—	5	5	0	—	3–12	A1	30	30A/600V	17CUC82B*11		17CUC82W*11		17CUC82N*11	
3	3	—	—	0	—	5.5–22	A1	30	30A/250V	17CUD82B*10		17CUD82W*10		17CUD82N*10	
—	—	10	10	0	—	5.5–22	A1	30	30A/600V	17CUD82B*11		17CUD82W*11		17CUD82N*11	
1/6	1/6	—	—	1	—	0.25–1	A	30	30A/250V	17DUA82B*10		17DUA82W*10		17DUA82N*10	
—	—	1/3	1/2	1	—	0.25–1	A	30	30A/600V	17DUA82B*11		17DUA82W*11		17DUA82N*11	
1/2	3/4	—	—	1	—	0.75–3.4	A	30	30A/250V	17DUB82B*10		17DUB82W*10		17DUB82N*10	
—	—	1 1/2	2	1	—	0.75–3.4	A	30	30A/600V	17DUB82B*11		17DUB82W*11		17DUB82N*11	
2	2	—	—	1	—	3–12	A1	30	30A/250V	17DUC82B*10		17DUC82W*10		17DUC82N*10	
—	—	5	5	1	—	3–12	A1	30	30A/600V	17DUC82B*11		17DUC82W*11		17DUC82N*11	
3	3	—	—	1	—	5.5–22	A1	30	30A/250V	17DUD82B*10		17DUD82W*10		17DUD82N*10	
—	—	10	10	1	—	5.5–22	A1	30	30A/600V	17DUD82B*11		17DUD82W*11		17DUD82N*11	
7 1/2	7 1/2	—	—	1	—	10–40	A1	60	60A/250V	17DUE82B*12		17DUE82W*12		17DUE82N*12	
—	—	15	15	—	1 1/4	10–40	A1	60	60A/600V	17EUE82B*13		17EUE82W*13		17EUE82N*13	
10	10	—	—	—	1 1/4	10–40	A1	60	60A/250V	17EUE82B*12		17EUE82W*12		17EUE82N*12	
10	15	—	—	2	—	13–52	B	60	60A/250V	17FUF82B*12		17FUF82W*12		17FUF82N*12	
—	—	25	25	2	—	13–52	B	60	60A/600V	17FUF82B*13		17FUF82W*13		17FUF82N*13	
—	—	—	30	—	2 1/2	13–52	B	60	60A/600V	17GUF82B*13		17GUF82W*13		17GUF82N*13	
—	—	30	—	—	2 1/2	13–52	B	100	100A/600V	17GUF82B*15		17GUF82W*15		17GUF82N*15	
15	20	—	—	—	2 1/2	25–100	B	100	100A/250V	17GUG82B*14		17GUG82W*14		17GUG82N*14	
20	25	—	—	3	—	25–100	B	100	100A/250V	17HUG82B*14		17HUG82W*14		17HUG82N*14	
—	—	50	50	3	—	25–100	B	100	100A/600V	17HUG82B*15		17HUG82W*15		17HUG82N*15	
25	30	—	—	3	—	25–100	B	200	200A/250V	17HUG82B*16		17HUG82W*16		17HUG82N*16	

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

①Dual voltage coils not available in modified starters.

②For conduit hubs and conversion instructions, see page 8/88.


③For 316 Stainless Steel option see page 8/98.

④Enclosed starters with the ESP200 OLR will not be available until approximately December 2009. Continue to order enclosed starters with the ESP100 OLR until then.

# Combination Heavy Duty Starters

## Fusible with Ambient Compensated Bimetal Overload, Class 17

Selection

	<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 8/150. (3 required)</li> <li>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/118.</li> <li>▶ Wiring Diagrams see page 8/132.</li> <li>▶ Replacement Parts see page 8/157.</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> <p>For other voltages and frequencies, see Factory Modifications page 8/95.</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	E
	60Hz Voltage	Letter																				
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277	L																					
220–240/440–480 <sup>①</sup>	C																					
440–480	H																					
575–600	E																					

### Standard Width Enclosure, 3-Phase, 3-Pole<sup>③</sup>

Max Hp				Cont-actor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Fuse Clip Size Amps/Volts	Enclosure							
200 Volts	230 Volts	460 Volts	575 Volts						NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional) <sup>④</sup>		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
									Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
3	3	—	—	18	0	—	30	30A/250V	17CP92B*1081	17CP92W*1081	17CP92F*1081	17CP92N*1081				
—	—	5	5	18	0	—	30	30A/600V	17CP92B*1181	17CP92W*1181	17CP92F*1181	17CP92N*1181				
5	5	—	—	27	1	—	30	30A/250V	17DP92B*1081	17DP92W*1081	17DP92F*1081	17DP92N*1081				
—	—	10	10	27	1	—	30	30A/600V	17DP92B*1181	17DP92W*1181	17DP92F*1181	17DP92N*1181				
7½	7½	—	—	27	1	—	60	60A/250V	17DP92B*1281	17DP92W*1281	17DP92F*1281	17DP92N*1281				
10	10	—	—	40	—	1¼	60	60A/250V	17EP92B*1281	17EP92W*1281	17EP92F*1281	17EP92N*1281				
—	—	15	15	40	—	1¼	60	60A/600V	17EP92B*1381	17EP92W*1381	17EP92F*1381	17EP92N*1381				
10	15	—	—	45	2	—	60	60A/250V	17FP92B*1281	17FP92W*1281	17FP92F*1281	17FP92N*1281				
—	—	25	25	45	2	—	60	60A/600V	17FP92B*1381	17FP92W*1381	17FP92F*1381	17FP92N*1381				
—	—	—	30	60	—	2½	60	60A/600V	17GP92B*1381	17GP92W*1381	17GP92F*1381	17GP92N*1381				
—	—	30	—	60	—	2½	100	100A/600V	17GP92B*1581	17GP92W*1581	17GP92F*1581	17GP92N*1581				
15	20	—	—	60	—	2½	100	100A/250V	17GP92B*1481	17GP92W*1481	17GP92F*1481	17GP92N*1481				
20	25	—	—	90	3	—	100	100A/250V	17HP92B*1481	17HP92W*1481	17HP92F*1481	17HP92N*1481				
—	—	50	50	90	3	—	100	100A/600V	17HP92B*1581	17HP92W*1581	17HP92F*1581	17HP92N*1581				
25	30	—	—	90	3	—	200	200A/250V	17HP92B*1681	17HP92W*1681	17HP92F*1681	17HP92N*1681				
30	40	—	—	115	—	3½	200	200A/600V	17IP92B*1681	17IP92W*1681	17IP92F*1681	17IP92N*1681				
—	—	75	75	115	—	3½	200	200A/600V	17IP92B*1781	17IP92W*1781	17IP92F*1781	17IP92N*1781				
40	50	—	—	135	4	—	200	200A/250V	17JP92B*1681	17JP92W*1681	17JP92F*1681	17JP92N*1681				
—	—	100	100	135	4	—	200	200A/600V	17JP92B*1781	17JP92W*1781	17JP92F*1781	17JP92N*1781				

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

Max Hp				Cont-actor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Fuse Clip Size Amps/Volts	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts						NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Industrial Use Weatherproof 304 Stainless Steel 316 Stainless Steel (optional) <sup>④</sup>		NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
									Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
3	3	—	—	18	0	—	30	30A/250V	17CP82B*1081	17CP82W*1081	17CP82F*1081	17CP82N*1081		
—	—	5	5	18	0	—	30	30A/600V	17CP82B*1181	17CP82W*1181	17CP82F*1181	17CP82N*1181		
5	5	—	—	27	1	—	30	30A/250V	17DP82B*1081	17DP82W*1081	17DP82F*1081	17DP82N*1081		
—	—	10	10	27	1	—	30	30A/600V	17DP82B*1181	17DP82W*1181	17DP82F*1181	17DP82N*1181		
7½	7½	—	—	27	1	—	60	60A/250V	17DP82B*1281	17DP82W*1281	17DP82F*1281	17DP82N*1281		
10	10	—	—	40	—	1¼	60	60A/250V	17EP82B*1281	17EP82W*1281	17EP82F*1281	17EP82N*1281		
—	—	15	15	40	—	1¼	60	60A/600V	17EP82B*1381	17EP82W*1381	17EP82F*1381	17EP82N*1381		
10	15	—	—	45	2	—	60	60A/250V	17FP82B*1281	17FP82W*1281	17FP82F*1281	17FP82N*1281		
—	—	25	25	45	2	—	60	60A/600V	17FP82B*1381	17FP82W*1381	17FP82F*1381	17FP82N*1381		
—	—	—	30	60	—	2½	60	60A/600V	17GP82B*1381	17GP82W*1381	17GP82F*1381	17GP82N*1381		
—	—	30	—	60	—	2½	100	100A/600V	17GP82B*1581	17GP82W*1581	17GP82F*1581	17GP82N*1581		
15	20	—	—	60	—	2½	100	100A/250V	17GP82B*1481	17GP82W*1481	17GP82F*1481	17GP82N*1481		
20	25	—	—	90	3	—	100	100A/250V	17HP82B*1481	17HP82W*1481	17HP82F*1481	17HP82N*1481		
—	—	50	50	90	3	—	100	100A/600V	17HP82B*1581	17HP82W*1581	17HP82F*1581	17HP82N*1581		
25	30	—	—	90	3	—	200	200A/250V	17HP92B*1681	17HP92W*1681	17HP92F*1681	17HP92N*1681		

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.

<sup>①</sup> Dual voltage coils not available in modified starters.


<sup>②</sup> For conduithubs and conversion instructions, see page 8/88.

<sup>③</sup> Single phase wiring page 8/131.

<sup>④</sup> For 316 Stainless Steel option see page 8/98.

# Combination Heavy Duty Starters MCP Type with Solid State Overload, Class 18

## Selection

	<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>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/118.</li> <li>▶ Wiring Diagrams see page 8/132.</li> <li>▶ Replacement Parts see page 8/157.</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> <p>For other voltages and frequencies, see Factory Modifications page 8/95.</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	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
120 Separate Control	F																					
110–120/220–240 <sup>①</sup>	A																					
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220–240/440–480 <sup>①</sup>	C																					
440–480	H																					
575–600	E																					

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

Max Hp				NEMA Size	Half Size	Motor Circuit Interrupter ETI Amps	Overload Amp Range	Frame Size	Enclosure <sup>②</sup>									
200 Volts	230 Volts	460 Volts	575 Volts						NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>③</sup> Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) <sup>④</sup>		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 7 & 9 NEMA 3 & 4 Div. 1 and Div. 2 Class I Groups C & D Class II Groups E, F & G Class III Bolted Enclosures Indoor/Outdoor Use		NEMA 12 NEMA 3/3R <sup>⑤</sup> Industrial Use Weatherproof (Field Convertible to 3/3R)	
Catalog Number	List Price \$	Catalog Number	List Price \$						Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/4	1/4	1	1	0	—	3	0.75–3.4	A	18CUB92B*	18CUB92W*	18CUB92F*	18CUB92H*	18CUB92N*					
2	2	5	5	0	—	10	3–12	A1	18CUC92B*	18CUC92W*	18CUC92F*	18CUC92H*	18CUC92N*					
3	3	—	—	0	—	25	5.5–22	A1	18CUD92B*	18CUD92W*	18CUD92F*	18CUD92H*	18CUD92N*					
1/2	1/2	1	1	1	—	3	0.75–3.4	A	18DUB92B*	18DUB92W*	18DUB92F*	18DUB92H*	18DUB92N*					
2	2	5	5	1	—	10	3–12	A1	18DUC92B*	18DUC92W*	18DUC92F*	18DUC92H*	18DUC92N*					
3	3	7 1/2	10	1	—	25	5.5–22	A1	18DUD92B*	18DUD92W*	18DUD92F*	18DUD92H*	18DUD92N*					
7 1/2	7 1/2	10	—	1	—	30	10–40	A1	18DUE92B*	18DUE92W*	18DUE92F*	18DUE92H*	18DUE92N*					
—	—	15	15	—	1 1/4	40	10–40	A1	18EUE92B*	18EUE92W*	18EUE92F*	18EUE92H*	18EUE92N*					
10	15	25	25	2	—	50	13–52	B	18FUF92B*	18FUF92W*	18FUF92F*	18FUF92H*	18FUF92N*					
15	20	30	30	—	2 1/4	100	25–100	B	18GUG92B*	18GUG92W*	18GUG92F*	18GUG92H*	18GUG92N*					
25	30	50	50	3	—	100	25–100	B	18HUG92B*	18HUG92W*	18HUG92F*	18HUG92H*	18HUG92N*					
30	40	75	75	—	3 1/4	125	50–200	B	18IUH92B*	18IUH92W*	18IUH92F*	18IUH92H*	18IUH92N*					
40	50	100	100	4	—	150	50–200	B	18JUH92B*	18JUH92W*	18JUH92F*	18JUH92H*	18JUH92N*					
50	75	150	200	5	—	250	55–250	—	18LPT92B*	18LPT92E* <sup>⑥</sup>	—	—	18LPT92N*					
75	100	200	—	5	—	400	55–250	—	18LPU92B*	18LPU92E* <sup>⑥</sup>	—	—	18LPU92N*					
100	125	250	300	6	—	400	160–630	—	18MPW92B*	18MPW92E* <sup>⑥</sup>	—	—	18MPW92N*					
150	200	400	400	6	—	600	160–630	—	18MPX92B*	18MPX92E* <sup>⑥</sup>	—	—	18MPX92N*					
—	250	500	500	7 <sup>⑦</sup>	—	800	400–1220	A1+CT	18NUV92B*	—	—	—	18NUV92N*					
—	300	600	600	7 <sup>⑦</sup>	—	1000	400–1220	A1+CT	18NUY92B*	—	—	—	18NUY92N*					
—	400	800	800	8 <sup>⑧</sup>	—	1200	400–1220	A1+CT	18PUW92B*	—	—	—	18PUW92N*					
—	450	900	900	8 <sup>⑧</sup>	—	1600	400–1220	A1+CT	18PUZ92B*	—	—	—	18PUZ92N*					

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

<sup>①</sup>Dual voltage coils not available in modified starters or in starter sizes 5–8.

<sup>②</sup>For conduit hubs and conversion instructions, see page 8/88.

<sup>③</sup>Enclosure is NEMA Type 4 (painted steel).

<sup>④</sup>F coil 100–250V AC 50/60Hz, or DC, H coil 150–500V AC 50/60Hz, or DC

<sup>⑤</sup>Only available F coil 100–250V AC 50/60Hz, or DC

<sup>⑥</sup>For 316 Stainless Steel option see page 8/98.

<sup>⑦</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.

# Combination Heavy Duty Starters MCP Type with Solid State Overload, Class 18

Selection



## Ordering Information

- ▶ Replace the (\*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- ▶ Field Modification Kits see page 8/82.
- ▶ Factory Modifications see page 8/95.
- ▶ Dimensions see page 8/118.
- ▶ Wiring Diagrams see page 8/132.
- ▶ Replacement Parts see page 8/157.

## 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>①</sup>	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 8/95.

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

Max Hp				NEMA Size	Half Size	Motor Circuit Interrupter ET/Amps	Overload		Enclosure <sup>④</sup>					
200 Volts	230 Volts	460 Volts	575 Volts				Amp Range	Frame Size	NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) <sup>③</sup>		NEMA 12 Industrial Use Weatherproof Field Convertible to 3/3R	
									Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/2	1/2	1	1	0	—	3	0.75–3.4	A	18CUB82B*		18CUB82W*		18CUB82N*	
2	2	5	5	0	—	10	3–12	A1	18CUC82B*		18CUC82W*		18CUC82N*	
3	3	—	—	0	—	25	5.5–22	A1	18CUD82B*		18CUD82W*		18CUD82N*	
1/2	1/2	1	1	1	—	3	0.75–3.4	A	18DUB82B*		18DUB82W*		18DUB82N*	
2	2	5	5	1	—	10	3–12	A1	18DUC82B*		18DUC82W*		18DUC82N*	
3	3	7 1/2	10	1	—	25	5.5–22	A1	18DUD82B*		18DUD82W*		18DUD82N*	
7 1/2	7 1/2	10	—	1	—	30	10–40	A1	18DUE82B*		18DUE82W*		18DUE82N*	
—	—	15	15	—	1 1/2	40	10–40	A1	18EUE82B*		18EUE82W*		18EUE82N*	
10	15	25	25	2	—	50	13–52	B	18FUF82B*		18FUF82W*		18FUF82N*	
15	20	30	30	—	2 1/2	100	25–100	B	18GUG82B*		18GUG82W*		18GUG82N*	
25	30	50	50	3	—	100	25–100	B	18HUG82B*		18HUG82W*		18HUG82N*	

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

<sup>①</sup> Dual voltage coils not available in modified starters.

<sup>②</sup> For conduit hubs and conversion instructions, see page 8/88.

<sup>③</sup> For 316 Stainless Steel option see page 8/98.


<sup>④</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.



# Combination Heavy Duty Starters

## MCP Type with Ambient Compensated Bimetal Overload, Class 18

### Selection

	<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 8/150. (3 required)</li> <li>▶ Field Modification Kits see page 8/82.</li> <li>▶ Factory Modifications see page 8/95.</li> <li>▶ Dimensions see page 8/118.</li> <li>▶ Wiring Diagrams see page 8/132.</li> <li>▶ Replacement Parts see page 8/157.</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> <p>For other voltages and frequencies, see Factory Modifications page 8/95.</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	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
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110–120/220–240 <sup>①</sup>	A																					
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220–240	G																					
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220–240/440–480 <sup>①</sup>	C																					
440–480	H																					
575–600	E																					

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

Max Hp				Contactor	NEMA Size	Half Size	Motor Circuit Interrupter ETI Amps	Enclosure												
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional) <sup>③</sup>	NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant	NEMA 7 & 9 NEMA 3 & 4 Div 1 and Div 2 Class I Groups C & D Class II Groups E, F & G Class III Bolted Enclosures Indoor/Outdoor Use	NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/2	1/2	1	1					18	0	—	3	18CP92BA*81		18CP92WA*81		18CP92FA*81		18CP92HA*81		18CP92NA*81
1	1	3	3	18	0	—	10	18CP92BB*81		18CP92WB*81		18CP92FB*81		18CP92HB*81		18CP92NB*81				
3	3	5	5	18	0	—	25	18CP92BC*81		18CP92WC*81		18CP92FC*81		18CP92HC*81		18CP92NC*81				
1/2	1/2	1	1	27	1	—	3	18DP92BA*81		18DP92WA*81		18DP92FA*81		18DP92HA*81		18DP92NA*81				
1	1	3	3	27	1	—	10	18DP92BB*81		18DP92WB*81		18DP92FB*81		18DP92HB*81		18DP92NB*81				
3	3	7 1/2	7 1/2	27	1	—	25	18DP92BD*81		18DP92WD*81		18DP92FD*81		18DP92HD*81		18DP92ND*81				
7 1/2	7 1/2	10	10	27	1	—	30	18DP92BE*81		18DP92WE*81		18DP92FE*81		18DP92HE*81		18DP92NE*81				
—	—	15	15	40	—	1 3/4	40	18EP92BF*81		18EP92WF*81		18EP92FF*81		18EP92HF*81		18EP92NF*81				
10	10	—	—	40	—	1 3/4	50	18EP92BG*81		18EP92WG*81		18EP92FG*81		18EP92HG*81		18EP92NG*81				
—	—	20	20	45	2	—	40	18FP92BH*81		18FP92WH*81		18FP92FH*81		18FP92HH*81		18FP92NH*81				
10	15	25	25	45	2	—	50	18FP92BJ*81		18FP92WJ*81		18FP92FJ*81		18FP92HJ*81		18FP92NJ*81				
10	15	30	30	60	—	2 1/2	50	18GP92BK*81		18GP92WK*81		18GP92FK*81		18GP92HK*81		18GP92NK*81				
15	20	—	—	60	—	2 1/2	100	18GP92BL*81		18GP92WL*81		18GP92FL*81		18GP92HL*81		18GP92NL*81				
—	—	30	30	90	3	—	50	18HP92BM*81		18HP92WM*81		18HP92FM*81		18HP92HM*81		18HP92NM*81				
25	30	50	50	90	3	—	100	18HP92BN*81		18HP92WN*81		18HP92FN*81		18HP92HN*81		18HP92NN*81				
30	40	75	75	115	—	3 1/2	125	18IP92BP*81		18IP92WP*81		18IP92FP*81		18IP92HP*81		18IP92NP*81				
40	50	100	100	135	4	—	150	18JP92BR*81		18JP92WR*81		18JP92FR*81		18JP92HR*81		18JP92NR*81				

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

Max Hp				Contactor	NEMA Size	Half Size	Motor Circuit Interrupter ETI Amps	Enclosure								
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose	NEMA 4/4X Stainless <sup>②</sup> Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional) <sup>③</sup>	NEMA 12, NEMA 3/3R, <sup>②</sup> NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
1/2	1/2	1	1					18	0	—	3	18CP82BA*81		18CP82WA*81		18CP82NA*81
1	1	3	3	18	0	—	10	18CP82BB*81		18CP82WB*81		18CP82NB*81				
3	3	5	5	18	0	—	25	18CP82BC*81		18CP82WC*81		18CP82NC*81				
1/2	1/2	1	1	27	1	—	3	18DP82BA*81		18DP82WA*81		18DP82NA*81				
1	1	3	3	27	1	—	10	18DP82BB*81		18DP82WB*81		18DP82NB*81				
3	3	7 1/2	7 1/2	27	1	—	25	18DP82BD*81		18DP82WD*81		18DP82ND*81				
7 1/2	7 1/2	10	10	27	1	—	30	18DP82BE*81		18DP82WE*81		18DP82NE*81				
—	—	15	15	40	—	1 3/4	40	18EP82BF*81		18EP82WF*81		18EP82NF*81				
10	10	—	—	40	—	1 3/4	50	18EP82BG*81		18EP82WG*81		18EP82NG*81				
—	—	20	20	45	2	—	40	18FP82BH*81		18FP82WH*81		18FP82NH*81				
10	15	25	25	45	2	—	50	18FP82BJ*81		18FP82WJ*81		18FP82NJ*81				
10	15	30	30	60	—	2 1/2	50	18GP82BK*81		18GP82WK*81		18GP82NK*81				
15	20	—	—	60	—	2 1/2	100	18GP82BL*81		18GP82WL*81		18GP82NL*81				
—	—	30	30	90	3	—	50	18HP82BM*81		18HP82WM*81		18HP82NM*81				
25	30	50	50	90	3	—	100	18HP82BN*81		18HP82WN*81		18HP82NN*81				

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

<sup>①</sup>Dual voltage coils not available in modified starters.

<sup>②</sup>For conduit hubs and conversion instructions, see page 8/88.

<sup>③</sup>For 316 Stainless Steel option see page 8/98.