

Heavy Duty Motor Starters

Solid State Overload with Auto/Manual Reset, Class 14

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 pages 8/103 open and 8/116 enclosed.
- ▶ Wiring Diagrams see page 8/131.

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.

Open Type & Standard Width Enclosure, 3-Phase, 3-Pole

Max Hp				Overload		Enclosure ^②											
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Amp Range	Frame Size	Open Type Standard Auxiliary Contacts ^②	NEMA 1 General Purpose	NEMA 4/4X Stainless ^② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) ^③	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 ^② Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number		List Price \$	
1/2	1/2	1/2	1/2	00	—	0.25-1	A	14BUA32A*	14BUA32B*	Use Size 0	Use Size 0	Use Size 0	Use Size 0	Use Size 0	—	—	
1/2	3/4	1 1/2	2	00	—	0.75-3.4	A	14BUB32A*	14BUB32B*	Use Size 0	Use Size 0	Use Size 0	Use Size 0	Use Size 0	—	—	
1 1/2	1 1/2	2	—	00	—	3-12	A1	14BUC32A*	14BUC32B*	Use Size 0	Use Size 0	Use Size 0	Use Size 0	Use Size 0	—	—	
1/2	3/4	1 1/2	2	0	—	0.25-1	A	14CUA32A*	14CUA32B*	14CUA32W*	14CUA32F*	14CUA32H*	14CUA32J*	14CUA32K*	—	—	
1/2	3/4	1 1/2	2	0	—	0.75-3.4	A	14CUB32A*	14CUB32B*	14CUB32W*	14CUB32F*	14CUB32H*	14CUB32J*	14CUB32K*	—	—	
2	2	5	5	0	—	3-12	A1	14CUC32A*	14CUC32B*	14CUC32W*	14CUC32F*	14CUC32H*	14CUC32J*	14CUC32K*	—	—	
3	3	—	—	0	—	5.5-22	A1	14CUD32A*	14CUD32B*	14CUD32W*	14CUD32F*	14CUD32H*	14CUD32J*	14CUD32K*	—	—	
1/2	3/4	1 1/2	2	1	—	0.25-1	A	14DUA32A*	14DUA32B*	14DUA32W*	14DUA32F*	14DUA32H*	14DUA32J*	14DUA32K*	—	—	
1/2	3/4	1 1/2	2	1	—	0.75-3.4	A	14DUB32A*	14DUB32B*	14DUB32W*	14DUB32F*	14DUB32H*	14DUB32J*	14DUB32K*	—	—	
2	2	5	5	1	—	3-12	A1	14DUC32A*	14DUC32B*	14DUC32W*	14DUC32F*	14DUC32H*	14DUC32J*	14DUC32K*	—	—	
3	3	10	10	1	—	5.5-22	A1	14DUD32A*	14DUD32B*	14DUD32W*	14DUD32F*	14DUD32H*	14DUD32J*	14DUD32K*	—	—	
7 1/2	7 1/2	—	—	1	—	10-40	A1	14DUE32A*	14DUE32B*	14DUE32W*	14DUE32F*	14DUE32H*	14DUE32J*	14DUE32K*	—	—	
10	10	15	15	—	1 1/2	10-40	A1	14EUE32A*	14EUE32B*	14EUE32W*	14EUE32F*	14EUE32H*	14EUE32J*	14EUE32K*	—	—	
10	15	25	25	2	—	13-52	B	14FUF32A*	14FUF32B*	14FUF32W*	14FUF32F*	14FUF32H*	14FUF32J*	14FUF32K*	—	—	
15	20	30	30	—	2 1/2	25-100	B	14GUG32A*	14GUG32B*	14GUG32W*	14GUG32F*	14GUG32H*	14GUG32J*	14GUG32K*	—	—	
25	30	50	50	3	—	25-100	B	14HUG32A*	14HUG32B*	14HUG32W*	14HUG32F*	14HUG32H*	14HUG32J*	14HUG32K*	—	—	
30	40	75	75	—	3 1/2	50-200	B	14IUH32A*	14IUH32B*	14IUH32W*	14IUH32F*	14IUH32H*	14IUH32J*	14IUH32K*	—	—	
40	50	100	100	4	—	50-200	B	14JUH32A*	14JUH32B*	14JUH32W*	14JUH32F*	14JUH32H*	14JUH32J*	14JUH32K*	—	—	
75	100	200	200	5	—	55-250	—	14LPU32A*	14LPU32B*	14LPU32E* ^④	—	—	14LPU32H*	14LPU32J*	—	—	
150	200	400	400	6	—	160-630	—	14MPX32A*	14MPX32B*	14MPX32E* ^④	—	—	—	14MPX32J*	—	—	
—	300	600	600	7 ^⑤	—	400-1220	A1+CT	14NUN32A*	14NUN32B*	14NUN32E* ^④	—	—	—	14NUN32J*	—	—	
—	450	900	900	8 ^⑥	—	400-1220	A1+CT	14PUN32A*	14PUN32B*	14PUN32E* ^④	—	—	—	14PUN32J*	—	—	

Open Type & Standard Width Enclosure, Single Phase, 2-Pole^③

Max Hp				Overload		Enclosure ^②											
115 Volts	208/230 Volts	NEMA Size	Amp Range	Frame Size	Open Type Standard Auxiliary Contacts ^②	NEMA 1 General Purpose	NEMA 4/4X Stainless ^② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional)	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 ^② Industrial Use Weatherproof (Field Convertible to 3/3R)	Catalog Number		List Price \$				
1/2	1/2	0	0.75-3.4	A	14CUB12A*	14CUB12B*	14CUB12W*	14CUB12F*	14CUB12H*	14CUB12J*	14CUB12K*	—	—				
1/2	1/2	0	3-12	A1	14CUC12A*	14CUC12B*	14CUC12W*	14CUC12F*	14CUC12H*	14CUC12J*	14CUC12K*	—	—				
1	2	0	5.5-22	A1	14CUD12A*	14CUD12B*	14CUD12W*	14CUD12F*	14CUD12H*	14CUD12J*	14CUD12K*	—	—				
1/2	1/2	1	0.75-3.4	A	14DUB12A*	14DUB12B*	14DUB12W*	14DUB12F*	14DUB12H*	14DUB12J*	14DUB12K*	—	—				
1/2	1/2	1	3-12	A1	14DUC12A*	14DUC12B*	14DUC12W*	14DUC12F*	14DUC12H*	14DUC12J*	14DUC12K*	—	—				
1	2	1	5.5-22	A1	14DUD12A*	14DUD12B*	14DUD12W*	14DUD12F*	14DUD12H*	14DUD12J*	14DUD12K*	—	—				

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

① Dual voltage coils not available in size 5-8 starters.

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

③ Coils D, F, or G will be wired for incoming voltage. J coil will be wired for separate source. Coils E, H, and L do not apply to single phase starters.

④ Enclosure is NEMA Type 4 (painted steel).

⑤ F coil 100-250V AC 50/60Hz, or DC, H coil 150-500V AC 50/60Hz, or DC

⑥ Only available F coil 100-250V AC 50/60Hz, or DC

⑦ Standard Auxiliary Contacts, Same as Contactors, refer to page 8/13.

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.

Heavy Duty Motor Starters

Solid State Overload with Auto/Manual Reset, Class 14

Selection

1
2
3
4
5
6
7
8



NEMA 1

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 8/116.
- ▶ Wiring Diagrams see page 8/131.
- ▶ Replacement Parts see page 8/157.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240	A
200–208	D
220–240	G
277	L
220–240/440–480	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	Amp Range	Frame Size	Enclosure [®]							
200 Volts	230 Volts	460 Volts	575 Volts					NEMA 1 General Purpose		NEMA 4/4X Stainless ^① Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional) ^②		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 [®] 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	1/8	1/8	1/8	00	—	0.25–1	A	14BUA82B*		Use Size 0	—	Use Size 0	—	Use Size 0	—
1/4	1/4	1/2	2	00	—	0.75–3.4	A	14BUB82B*		Use Size 0	—	Use Size 0	—	Use Size 0	—
1/2	1/2	2	—	00	—	3–12	A1	14BUC82B*		Use Size 0	—	Use Size 0	—	Use Size 0	—
1/8	1/8	1/2	1/2	0	—	0.25–1	A	14CUA82B*		14CUA82W*		14CUA82H*		14CUA820*	
1/4	1/4	1/2	2	0	—	0.75–3.4	A	14CUB82B*		14CUB82W*		14CUB82H*		14CUB820*	
2	2	5	5	0	—	3–12	A1	14CUC82B*		14CUC82W*		14CUC82H*		14CUC820*	
3	3	—	—	0	—	5.5–22	A1	14CUD82B*		14CUD82W*		14CUD82H*		14CUD820*	
1/8	1/8	1/2	1/2	1	—	0.25–1	A	14DUA82B*		14DUA82W*		14DUA82H*		14DUA820*	
1/4	1/4	1/2	2	1	—	0.75–3.4	A	14DUB82B*		14DUB82W*		14DUB82H*		14DUB820*	
2	2	5	5	1	—	3–12	A1	14DUC82B*		14DUC82W*		14DUC82H*		14DUC820*	
3	3	10	10	1	—	5.5–22	A1	14DUD82B*		14DUD82W*		14DUD82H*		14DUD820*	
7 1/2	7 1/2	—	—	1	—	10–40	A1	14DUE82B*		14DUE82W*		14DUE82H*		14DUE820*	
10	10	15	15	—	1 1/2	10–40	A1	14EUE82B*		14EUE82W*		14EUE82H*		14EUE820*	
10	15	25	25	2	—	13–52	B	14FUF82B*		14FUF82W*		14FUF82H*		14FUF820*	
15	20	30	30	—	2 1/2	25–100	B	14GUG82B*		14GUG82W*		14GUG82H*		14GUG820*	
25	30	50	50	3	—	25–100	B	14HUG82B*		14HUG82W*		14HUG82H*		14HUG820*	
30	40	75	75	—	3 1/2	50–200	B	14IUH82B*		14IUH82W*		14IUH82H*		14IUH820*	

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

^① For conduit hubs and conversion instructions, see page 8/88.

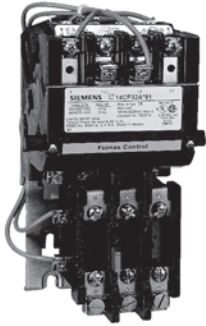
^② For 316 Stainless Steel option see page 8/98.

[®] 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.

Heavy Duty Motor Starters

Ambient Compensated Bimetal Overload with Manual and Auto Reset, Class 14

Selection



Ordering Information

- ▶ Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- ▶ Heater elements see page 8/150. Single phase starters require 1 heater element. 3-phase starters require 3 heater elements.
- ▶ Field Modification Kits page 8/82.
- ▶ Factory Modifications page 8/95.
- ▶ Dimensions see page 8/104 open and 8/116 enclosed.
- ▶ Wiring Diagrams see page 8/131.
- ▶ Replacement Parts see page 8/157.

Coil Table

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

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

Open Type & Standard Width Enclosure, 3-Phase, 3-Pole

Max Hp					Contactor Amp Rating	NEMA Size	Half Size	Enclosure											
200 Volts	230 Volts	460 Volts	575 Volts	Open Type Standard Auxiliary Contacts ^④				NEMA 1 General Purpose		NEMA 4/4X Stainless ^② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel ^⑤		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 ^③ Industrial Use Weatherproof			
								Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1 1/2	1 1/2	2	2	9	00	—	14BP32A*81	14BP32B*81	Use Size 0	—	Use Size 0	—	Use Size 0	—	Use Size 0	—			
3	3	5	5	18	0	—	14CP32A*81	14CP32B*81	14CP32W*81	—	14CP32F*81	—	14CP32H*81	—	14CP320*81	—			
7 1/2	7 1/2	10	10	27	1	—	14DP32A*81	14DP32B*81	14DP32W*81	—	14DP32F*81	—	14DP32H*81	—	14DP320*81	—			
10	10	15	15	40	—	1 1/4	14EP32A*81	14EP32B*81	14EP32W*81	—	14EP32F*81	—	14EP32H*81	—	14EP320*81	—			
10	15	25	25	45	2	—	14FP32A*81	14FP32B*81	14FP32W*81	—	14FP32F*81	—	14FP32H*81	—	14FP320*81	—			
15	20	30	30	60	—	2 1/2	14GP32A*81	14GP32B*81	14GP32W*81	—	14GP32F*81	—	14GP32H*81	—	14GP320*81	—			
25	30	50	50	90	3	—	14HP32A*81	14HP32B*81	14HP32W*81	—	14HP32F*81	—	14HP32H*81	—	14HP320*81	—			
30	40	75	75	115	—	3 1/2	14IP32A*81	14IP32B*81	14IP32W*81	—	14IP32F*81	—	14IP32H*81	—	14IP320*81	—			
40	50	100	100	135	4	—	14JG32A*81	14JG32B*81	14JG32W*81	—	14JG32F*81	—	14JG32H*81	—	14JG320*81	—			

Open Type & Standard Width Enclosure, Single Phase, 2-Pole^⑥

Max Hp			Contactor Amp Rating	NEMA Size	Half Size	Enclosure											
115 Volts	208/230 Volts	Open Type Standard Auxiliary Contacts ^④				NEMA 1 General Purpose		NEMA 4/4X Stainless ^② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel ^⑤		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 ^③ Industrial Use Weatherproof			
						Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1	9	00	—	14BP12A*81	14BP12B*81	Use Size 0	—	Use Size 0	—	Use Size 0	—	Use Size 0	—			
1	2	18	0	—	14CP12A*81	14CP12B*81	14CP12W*81	—	14CP12F*81	—	14CP12H*81	—	14CP120*81	—			
2	3	27	1	—	14DP12A*81	14DP12B*81	14DP12W*81	—	14DP12F*81	—	14DP12H*81	—	14DP120*81	—			
3	5	35	1P	—	14EP12A*81	14EP12B*81	14EP12W*81	—	14EP12F*81	—	14EP12H*81	—	14EP120*81	—			
3	7 1/2	45	2	—	14FP12A*81	14FP12B*81	14FP12W*81	—	14FP12F*81	—	14FP12H*81	—	14FP120*81	—			
5	10	60	—	2 1/2	14GP12A*81	14GP12B*81	14GP12W*81	—	14GP12F*81	—	14GP12H*81	—	14GP120*81	—			

Extra Wide Enclosure, 3-Phase, 3-Pole^⑦

Max Hp					Contactor Amp Rating	NEMA Size	Half Size	Enclosure					
200 Volts	230 Volts	460 Volts	575 Volts	NEMA 1 General Purpose				NEMA 4/4X Stainless ^② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel ^⑤		NEMA 7 & 9 NEMA 3 & 4 Div 1 and Div 2 Class II Groups E, F & G Class III Bolted Enclosures Indoor/Outdoor Use		NEMA 12 NEMA 3/3R ^③ Industrial Use Weatherproof	
								Catalog No	List Price \$	Catalog No	List Price \$	Catalog No	List Price \$
1 1/2	1 1/2	2	2	9	00	—	14BP82B*81	Use Size 0	—	Use Size 0	—	Use Size 0	—
3	3	5	5	18	0	—	14CP82B*81	14CP82W*81	—	14CP82H*81	—	14CP820*81	—
7 1/2	7 1/2	10	10	27	1	—	14DP82B*81	14DP82W*81	—	14DP82H*81	—	14DP820*81	—
10	10	15	15	40	—	1 1/4	14EP82B*81	14EP82W*81	—	14EP82H*81	—	14EP820*81	—
10	15	25	25	45	2	—	14FP82B*81	14FP82W*81	—	14FP82H*81	—	14FP820*81	—
15	20	30	30	60	—	2 1/2	14GP82B*81	14GP82W*81	—	14GP82H*81	—	14GP820*81	—
25	30	50	50	90	3	—	14HP82B*81	14HP82W*81	—	14HP82H*81	—	14HP820*81	—
30	40	75	75	115	—	3 1/2	14IP82B*81	14IP82W*81	—	14IP82H*81	—	14IP820*81	—
40	50	100	100	135	4	—	14JG82B*81	14JG82W*81	—	14JG82H*81	—	14JG820*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. For higher Hp single phase motors, use 3-phase starters, wire and set per diagram on page 8/131.

- ① To receive a single phase starter in an extra wide enclosure, order the enclosure kit from pg 8/91 and the open style starter from pg 8/14 or 8/16 as separate items.
- ② For conduit hubs and conversion instructions, see page 8/88.

- ③ Coils D, F, or G will be wired for incoming voltage. J coil will be wired for separate source. Coils E, H, and L do not apply to single phase starters.
- ④ Standard Auxiliary Contacts, Same as Contactors, refer to page 8/44.
- ⑤ For 316 Stainless Steel option see page 8/98.