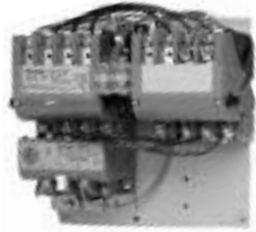


Reversing Heavy Duty Starters

Selection

Solid State Overload Manual Reset, Class 22



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 page 145–146.
- ▶ Wiring Diagrams see page 159.
- ▶ Replacement Parts see page 882.

Coil Table

60Hz Voltage	Letter
24 Separate Control ^①	J
120 Separate Control	F
110–120/220–240 ^①	A
200–208	D
220–240	G
277	L
220–240/440–480 ^{②③}	C
440–480 ^②	H
575–600 ^②	E

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

2

NEMA and HP Rated Control

3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Overload Amp Range	Enclosure									
200 Volts	230 Volts	460 Volts	575 Volts				Open Type		NEMA 1 General Purpose		NEMA 4/4X Stainless [®] 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 [®] Industrial Use Weatherproof	
							Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/8	1/8	1/8	1/8	00	—	.25–1	22BSA32A*	535.	22BSA32B*	566.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1/4	3/4	1 1/2	2	00	—	.75–3	22BSB32A*	535.	22BSB32B*	566.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1 1/2	1 1/2	2	—	00	—	2.5–10	22BSD32A*	535.	22BSD32B*	566.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1/8	1/8	1/8	1/8	0	—	0.25–1	22CSA32A*	628.	22CSA32B*	659.	22CSA32W*	1013.	22CSA32H*	2084.	22CSA320*	797.
1/4	3/4	1 1/2	2	0	—	0.75–3	22CSB32A*	628.	22CSB32B*	659.	22CSB32W*	1013.	22CSB32H*	2084.	22CSB320*	797.
2	2	5	5	0	—	2.5–10	22CSD32A*	628.	22CSD32B*	659.	22CSD32W*	1013.	22CSD32H*	2084.	22CSD320*	797.
3	3	—	—	0	—	9–18	22CSE32A*	628.	22CSE32B*	659.	22CSE32W*	1013.	22CSE32H*	2084.	22CSE320*	797.
1/8	1/8	1/8	1/8	1	—	0.25–1	22DSA32A*	705.	22DSA32B*	751.	22DSA32W*	1244.	22DSA32H*	2184.	22DSA320*	890.
1/4	3/4	1 1/2	2	1	—	0.75–3	22DSB32A*	705.	22DSB32B*	751.	22DSB32W*	1244.	22DSB32H*	2184.	22DSB320*	890.
2	2	5	5	1	—	2.5–10	22DSD32A*	705.	22DSD32B*	751.	22DSD32W*	1244.	22DSD32H*	2184.	22DSD320*	890.
3	3	10	10	1	—	9–18	22DSE32A*	705.	22DSE32B*	751.	22DSE32W*	1244.	22DSE32H*	2184.	22DSE320*	890.
7 1/2	7 1/2	—	—	1	—	13–27	22DSF32A*	705.	22DSF32B*	751.	22DSF32W*	1244.	22DSF32H*	2184.	22DSF320*	890.
—	—	15	15	—	1 3/4	13–27	22ESF32A*	936.	22ESF32B*	982.	22ESF32W*	1475.	22ESF32H*	2415.	22ESF320*	1121.
10	10	—	—	—	1 3/4	20–40	22ESG32A*	936.	22ESG32B*	982.	22ESG32W*	1475.	22ESG32H*	2415.	22ESG320*	1121.
—	—	15	20	2	—	13–27	22FSF32A*	1306.	22FSF32B*	1429.	22FSF32W*	2230.	22FSF32H*	3625.	22FSF320*	1660.
10	15	25	25	2	—	22–45	22FSH32A*	1306.	22FSH32B*	1429.	22FSH32W*	2230.	22FSH32H*	3625.	22FSH320*	1660.
—	—	30	30	—	2 1/2	22–45	22GSH32A*	1722.	22GSH32B*	1891.	22GSH32W*	2885.	22GSH32H*	4619.	22GSH320*	2261.
15	20	—	—	—	2 1/2	30–60	22GSJ32A*	1722.	22GSJ32B*	1891.	22GSJ32W*	2885.	22GSJ32H*	4619.	22GSJ320*	2261.
—	—	30	40	3	—	30–60	22HSJ32A*	2146.	22HSJ32B*	2361.	22HSJ32W*	3548.	22HSJ32H*	5805.	22HSJ320*	2870.
25	30	50	50	3	—	45–90	22HSK32A*	2146.	22HSK32B*	2361.	22HSK32W*	3548.	22HSK32H*	5805.	22HSK320*	2870.
30	40	75	75	—	3 1/2	57–115	22ISL32A*	4572.	22ISL32B*	4973.	22ISL32W*	7068.	22ISL32H*	10489.	22ISL320*	5759.
40	50	100	100	4	—	67–135	22JTM32A*	5189.	22JTM32B*	5589.	22JTM32W*	7685.	22JTM32H*	11105.	22JTM320*	6375.
50	75	150	150	—	4 1/2	100–210	22KTS32A*	8860.	22KTS32B*	11179.	22KTS32W*	13890.	—	—	22KTS320*	12374.
75	100	200	200	5	—	100–270	22LTU32A*	9938.	22LTU32B*	12257.	22LTU32W*	14969.	—	—	22LTU320*	13528.
150	200	400	400	6	—	200–540	22MTX32A*	23405.	22MTX32B*	27257.	22MTX32E*	31109.	—	—	22MTX320*	30105.
—	300	600	600	7	—	420–820	22NTY32A*	33166.	22NTY32B*	37018.	22NTY32E*	40870.	—	—	22NTY320*	39098.
—	450	900	900	8	—	420–1220	22PTZ32A*	48774.	22PTZ32B*	52626.	22PTZ32E*	56477.	—	—	22PTZ320*	54706.

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.

①24V and dual voltage coils not available in size 4 1/2–8 starters.

②Not available with self-reset option.

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

Example: 22CSD32F*. Price addition see page 130. Available through size 4. NEMA sizes 6–8 are NEMA 4 painted enclosures.

④To order starter sizes 0–1 3/4 and 6–8 in NEMA 3/3R enclosure change 8th character of the catalog number to D. Example: 22CSD32D*. Price same as NEMA 12. For all other sizes see page 125.

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Discount Code: NEMA Control

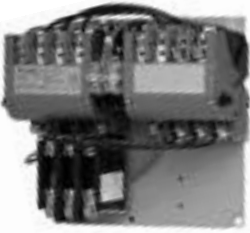
Siemens Industrial Control Products



Reversing Heavy Duty Starters

Selection

Ambient Compensated Bimetal Overload with Manual and Auto Reset, Class 22

	Ordering Information <ul style="list-style-type: none"> ▶ 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 884. ▶ Technical Data see pages 133–138. ▶ Field Modification Kits see pages 121–125. ▶ Factory Modifications see pages 126–132. ▶ Dimensions see page 145–146. ▶ Wiring Diagrams see page 159 ▶ Replacement Parts see page 882. 	Coil Table <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</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</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	A	200–208	D	220–240	G	277	L	220–240/440–480	C	440–480	H	575–600	E
	60Hz Voltage	Letter																				
24 Separate Control	J																					
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277	L																					
220–240/440–480	C																					
440–480	H																					
575–600	E																					
For other voltages and frequencies, see Factory Modifications page 129.																						

3 Phase, 3 Pole

Max Hp				NEMA Size	Half Size	Enclosure									
200 Volts	230 Volts	460 Volts	575 Volts			Open Type		NEMA 1 General Purpose		NEMA 4/4X Stainless ^① 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		NEMA 12 NEMA 3/3R ^② Industrial Use Weatherproof	
						Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1 1/2	1 1/2	2	2	00	—	22BP32A*81	501.	22BP32B*81	532.	Use Size 0	—	Use Size 0	—	Use Size 0	—
3	3	5	5	0	—	22CP32A*81	593.	22CP32B*81	624.	22CP32W*81	978.	22CP32H*81	2049.	22CP320*81	763.
7 1/2	7 1/2	10	10	1	—	22DP32A*81	670.	22DP32B*81	716.	22DP32W*81	1210.	22DP32H*81	2149.	22DP320*81	855.
10	10	15	15	—	1 1/4	22EP32A*81	901.	22EP32B*81	948.	22EP32W*81	1441.	22EP32H*81	2381.	22EP320*81	1086.
10	15	25	25	2	—	22FP32A*81	1271.	22FP32B*81	1394.	22FP32W*81	2196.	22FP32H*81	3590.	22FP320*81	1626.
15	20	30	30	—	2 1/2	22GP32A*81	1687.	22GP32B*81	1857.	22GP32W*81	2850.	22GP32H*81	4584.	22GP320*81	2226.
25	30	50	50	3	—	22HP32A*81	2111.	22HP32B*81	2327.	22HP32W*81	3513.	22HP32H*81	5770.	22HP320*81	2835.
30	40	75	75	—	3 1/2	22IP32A*81	4538.	22IP32B*81	4938.	22IP32W*81	7034.	22IP32H*81	10454.	22IP320*81	5724.
40	50	100	100	4	—	22JG32A*81	5154.	22JG32B*81	5555.	22JG32W*81	7650.	22JG32H*81	11071.	22JG320*81	6340.
50	75	150	150	—	4 1/2										
75	100	200	200	5	—										
150	200	400	400	6	—										
—	300	600	600	7	—										
—	450	900	900	8	—										

ESP100 Solid State Overload Standard, see page 70 for Selection.

2
NEMA and HP
Rated Control

Single Phase, 3 Wire 2 Pole

Max Hp		NEMA Size	Enclosure									
115 Volts	230 Volts		Open Type		NEMA 1 General Purpose		NEMA 4/4X Stainless ^① 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		NEMA 12 NEMA 3/3R ^② Industrial Use Weatherproof	
			Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/2	1	00	22BP12A*81	466.	22BP12B*81	497.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1	2	0	22CP12A*81	559.	22CP12B*81	589.	22CP12W*81	944.	22CP12H*81	2011.	22CP120*81	728.
2	3	1	22DP12A*81	636.	22DP12B*81	682.	22DP12W*81	1175.	22DP12H*81	2111.	22DP120*81	820.
3	5	1P	22EP12A*81	867.	22EP12B*81	913.	22EP12W*81	1406.	22EP12H*81	2342.	22EP120*81	1052.

Single Phase, 4 Wire Repulsion Induction 3 Pole

1/2	1	00	22BP82A*81	482.	22BP82B*81	512.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1	2	0	22CP82A*81	574.	22CP82B*81	605.	22CP82W*81	959.	22CP82H*81	2026.	22CP820*81	743.
2	3	1	22DP82A*81	651.	22DP82B*81	697.	22DP82W*81	1190.	22DP82H*81	2130.	22DP820*81	836.
3	5	1P	22EP82A*81	882.	22EP82B*81	928.	22EP82W*81	1421.	22EP82H*81	2361.	22EP820*81	1067.

Single Phase, 4 Wire Phase One Line Direct 3 Pole

1/2	1	00	22BP92A*81	482.	22BP92B*81	512.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1	2	0	22CP92A*81	574.	22CP92B*81	605.	22CP92W*81	959.	22CP92H*81	2026.	22CP920*81	743.
2	3	1	22DP92A*81	651.	22DP92B*81	697.	22DP92W*81	1190.	22DP92H*81	2130.	22DP920*81	836.
3	5	1P	22EP92A*81	882.	22EP92B*81	928.	22EP92W*81	1421.	22EP92H*81	2361.	22EP920*81	1067.

Single Phase, 4 Wire Split Phase All Leads Broken 4 Pole

1/2	1	00	22BP52A*81	636.	22BP52B*81	666.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1	2	0	22CP52A*81	728.	22CP52B*81	759.	22CP52W*81	1113.	22CP52H*81	2196.	22CP520*81	859.
2	3	1	22DP52A*81	828.	22DP52B*81	859.	22DP52W*81	1352.	22DP52H*81	2292.	22DP520*81	998.
3	5	1P	22EP52A*81	1059.	22EP52B*81	1090.	22EP52W*81	1583.	22EP52H*81	2523.	22EP520*81	1229.

①For NEMA 4X fiberglass enclosure change 7th character of catalog number to F. Example: 22CP32F*81.
Price addition see page 130. Available through size 4.
②NEMA 12 may be field modified for NEMA 3/3R, see page 125.