




# Heavy Duty Motor Starters

Selection

## Solid State Overload with Manual Reset, Class 14

	<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>▶ For self-reset overload option on sizes 0-5, change 4th character from "S" or "T" to "R". No price addition.</li> <li>▶ Technical Data see pages 133-138.</li> <li>▶ Field Modification Kits see pages 121-125. Factory Modifications see pages 126-132.</li> <li>▶ Dimensions see pages 139-141.</li> <li>▶ Wiring Diagrams see page 157.</li> <li>▶ Replacement Parts see pages 882.</li> </ul>	<b>Coil Table</b> <table border="1"> <tr> <td>60Hz Voltage</td> <td>Letter</td> </tr> <tr> <td>24 Separate Control<sup>Ⓞ</sup></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>550-600</td> <td>E</td> </tr> </table> <p>For other voltages and frequencies, see Factory Modifications page 129.</p>	60Hz Voltage	Letter	24 Separate Control <sup>Ⓞ</sup>	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	550-600	E
	60Hz Voltage	Letter																				
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### 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 <sup>Ⓞ</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>Ⓞ</sup> 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	—	0.25-1	14BSA32A*	243.	14BSA32B*	258.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1/2	3/4	1 1/2	2	00	—	0.75-3	14BSB32A*	243.	14BSB32B*	258.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1 1/2	1 1/2	2	—	00	—	2.5-10	14BSD32A*	243.	14BSD32B*	258.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1/8	1/8	1/8	1/8	0	—	0.25-1	14CSA32A*	297.	14CSA32B*	312.	14CSA32W*	582.	14CSA32H*	1283.	14CSA320*	404.
1/2	3/4	1 1/2	2	0	—	0.75-3	14CSB32A*	297.	14CSB32B*	312.	14CSB32W*	582.	14CSB32H*	1283.	14CSB320*	404.
2	2	5	5	0	—	2.5-10	14CSD32A*	297.	14CSD32B*	312.	14CSD32W*	582.	14CSD32H*	1283.	14CSD320*	404.
3	3	—	—	0	—	9-18	14CSE32A*	297.	14CSE32B*	312.	14CSE32W*	582.	14CSE32H*	1283.	14CSE320*	404.
1/8	1/8	1/8	1/8	1	—	0.25-1	14DSA32A*	335.	14DSA32B*	351.	14DSA32W*	628.	14DSA32H*	1321.	14DSA320*	443.
1/2	3/4	1 1/2	2	1	—	0.75-3	14DSB32A*	335.	14DSB32B*	351.	14DSB32W*	628.	14DSB32H*	1321.	14DSB320*	443.
2	2	5	5	1	—	2.5-10	14DSD32A*	335.	14DSD32B*	351.	14DSD32W*	628.	14DSD32H*	1321.	14DSD320*	443.
3	3	10	10	1	—	9-18	14DSE32A*	335.	14DSE32B*	351.	14DSE32W*	628.	14DSE32H*	1321.	14DSE320*	443.
7 1/2	7 1/2	—	—	1	—	13-27	14DSF32A*	335.	14DSF32B*	351.	14DSF32W*	628.	14DSF32H*	1321.	14DSF320*	443.
—	—	15	15	—	1 3/4	13-27	14ESF32A*	451.	14ESF32B*	466.	14ESF32W*	743.	14ESF32H*	1437.	14ESF320*	559.
10	10	—	—	—	1 3/4	20-40	14ESG32A*	451.	14ESG32B*	466.	14ESG32W*	743.	14ESG32H*	1437.	14ESG320*	559.
—	—	15	20	2	—	13-27	14FSF32A*	582.	14FSF32B*	659.	14FSF32W*	1213.	14FSF32H*	1814.	14FSF320*	828.
10	15	25	25	2	—	22-45	14FSH32A*	582.	14FSH32B*	659.	14FSH32W*	1213.	14FSH32H*	1814.	14FSH320*	828.
—	—	30	30	—	2 1/2	22-45	14GSH32A*	751.	14GSH32B*	867.	14GSH32W*	1537.	14GSH32H*	2261.	14GSH320*	1052.
15	20	—	—	—	2 1/2	30-60	14GSJ32A*	751.	14GSJ32B*	867.	14GSJ32W*	1537.	14GSJ32H*	2261.	14GSJ320*	1052.
—	—	30	40	3	—	30-60	14HSJ32A*	921.	14HSJ32B*	1075.	14HSJ32W*	1861.	14HSJ32H*	3243.	14HSJ320*	1275.
25	30	50	50	3	—	45-90	14HSK32A*	921.	14HSK32B*	1075.	14HSK32W*	1861.	14HSK32H*	3243.	14HSK320*	1275.
30	40	75	75	—	3 1/2	57-115	14ISL32A*	1753.	14ISL32B*	2076.	14ISL32W*	3417.	14ISL32H*	4041.	14ISL320*	2739.
40	50	100	100	4	—	67-135	14JTM32A*	2061.	14JTM32B*	2384.	14JTM32W*	3725.	14JTM32H*	4349.	14JTM320*	3047.
50	75	150	150	—	4 1/2	100-210	14KTS32A*	4445.	14KTS32B*	5038.	14KTS32W*	6733.	14KTS32H*	9538.	14KTS320*	6733.
75	100	200	200	5	—	100-270	14LTU32A*	4984.	14LTU32B*	5578.	14LTU32W*	7273.	14LTU32H*	10077.	14LTU320*	7273.
150	200	400	400	6	—	200-540	14MTX32A*	11803.	14MTX32B*	15655.	14MTX32W*	19507.	—	—	14MTX320*	17735.
—	300	600	600	7	—	420-820	14NTY32A*	17480.	14NTY32B*	21332.	14NTY32E*	25184.	—	—	14NTY320*	23412.
—	450	900	900	8	—	420-1220	14PTZ32A*	26132.	14PTZ32B*	29984.	14PTZ32E*	33836.	—	—	14PTZ320*	32064.

### Single Phase, 2 Pole

Max Hp		NEMA Size	Overload Amp Range	Enclosure									
115 Volts	230 Volts			Open Type		NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>Ⓞ</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>Ⓞ</sup> Industrial Use Weatherproof	
				Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1/8	1/4	0	0.75-3	14CSB12A*	247.	14CSB12B*	262.	14CSB12W*	532.	14CSB12H*	1233.	14CSB120*	354.
1/4	1/2	0	2.5-10	14CSD12A*	247.	14CSD12B*	262.	14CSD12W*	532.	14CSD12H*	1233.	14CSD120*	354.
1	2	0	5.0-16	14CSE12A*	247.	14CSE12B*	262.	14CSE12W*	532.	14CSE12H*	1233.	14CSE120*	354.
1/8	1/4	1	0.75-3	14DSB12A*	285.	14DSB12B*	300.	14DSB12W*	578.	14DSB12H*	1271.	14DSB120*	393.
1/4	1/2	1	2.5-10	14DSD12A*	285.	14DSD12B*	300.	14DSD12W*	578.	14DSD12H*	1271.	14DSD120*	393.
1	2	1	5.0-16	14DSE12A*	285.	14DSE12B*	300.	14DSE12W*	578.	14DSE12H*	1271.	14DSE120*	393.

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 157.

Ⓞ24V and dual voltage coils not available in size 4 1/2-8 starters.  
 ⓄFor NEMA 4X fiberglass enclosure change 8th character of catalog number to F. Example: 14CSD32F\*. Price addition see page 130. Available through size 4. NEMA sizes 7 and 8 are NEMA 4 painted enclosures.

ⓄTo order starter sizes 0-1 1/4 and 6-8 in NEMA 3/3R enclosure change 8th character of Cat No to D. Example 14CSD32D\*. Price same as NEMA 12. For all other sizes see page 125.


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NEMA and HP  
Rated Control



# Heavy Duty Motor Starters

Selection

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

	<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. Single phase starters require 1 heater element. 3 phase starters require 3 heater elements.</li> <li>▶ Technical Data see pages 133–138.</li> <li>▶ Field Modification Kits pages 121–125.</li> <li>▶ Factory Modifications pages 126–132.</li> <li>▶ Dimensions see pages 139–141.</li> <li>▶ Wiring Diagrams see page 157.</li> <li>▶ Replacement Parts see pages 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</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>550–600</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	A	200–208	D	220–240	G	277	L	220–240/440–480	C	440–480	H	550–600	E
	60Hz Voltage	Letter																				
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2  
NEMA and HP  
Rated Control

### 3 Phase, 3 Pole

Max Hp				Cont Amp Rating	NEMA Size	Half Size	Enclosure									
200 Volts	230 Volts	460 Volts	575 Volts				Open Type		NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>①</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>②</sup> Industrial Use Weatherproof	
							Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
1½	1½	2	2	9	00	—	14BP32A*81	208.	14BP32B*81	223.	Use Size 0	—	Use Size 0	—	Use Size 0	—
3	3	5	5	18	0	—	14CP32A*81	262.	14CP32B*81	277.	14CP32W*81	547.	14CP32H*81	1248.	14CP320*81	370.
7½	7½	10	10	27	1	—	14DP32A*81	300.	14DP32B*81	316.	14DP32W*81	593.	14DP32H*81	1287.	14DP320*81	408.
10	10	15	15	40	—	1½	14EP32A*81	416.	14EP32B*81	431.	14EP32W*81	709.	14EP32H*81	1402.	14EP320*81	524.
10	15	25	25	45	2	—	14FP32A*81	547.	14FP32B*81	624.	14FP32W*81	1179.	14FP32H*81	1780.	14FP320*81	794.
15	20	30	30	60	—	2½	14GP32A*81	716.	14GP32B*81	832.	14GP32W*81	1502.	14GP32H*81	2226.	14GP320*81	1017.
25	30	50	50	90	3	—	14HP32A*81	886.	14HP32B*81	1040.	14HP32W*81	1826.	14HP32H*81	3209.	14HP320*81	1240.
30	40	75	75	115	—	3½	14IP32A*81	1718.	14IP32B*81	2042.	14IP32W*81	3382.	14IP32H*81	4006.	14IP320*81	2704.
40	50	100	100	135	4	—	14JG32A*81	2026.	14JG32B*81	2350.	14JG32W*81	3690.	14JG32H*81	4314.	14JG320*81	3012.
50	75	150	150	210	—	4½	ESP100 Solid State Overload Standard, see page 57 for selection.									
75	100	200	200	270	5	—										
150	200	400	400	540	6	—										
—	300	600	600	810	7	—										
—	450	900	900	1215	8	—										

### Single Phase, 2 Pole

Max Hp		Cont Amp Rating	NEMA Size	Half Size	Enclosure									
115 Volts	230 Volts				Open Type		NEMA 1 General Purpose		NEMA 4/4X Stainless <sup>①</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>②</sup> Industrial Use Weatherproof	
					Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$	Catalog No	Price \$
½	1	9	00	—	14BP12A*81	181.	14BP12B*81	196.	Use Size 0	—	Use Size 0	—	Use Size 0	—
1	2	18	0	—	14CP12A*81	235.	14CP12B*81	250.	14CP12W*81	520.	14CP12H*81	1221.	14CP120*81	343.
2	3	27	1	—	14DP12A*81	273.	14DP12B*81	289.	14DP12W*81	566.	14DP12H*81	1260.	14DP120*81	381.
3	5	35	1P	—	14EP12A*81	358.	14EP12B*81	374.	14EP12W*81	651.	14EP12H*81	1344.	14EP120*81	466.
3	7½	45	2	—	14FP12A*81	497.	14FP12B*81	574.	14FP12W*81	1129.	14FP12H*81	1730.	14FP120*81	743.
5	10	60	—	2½	14GP12A*81	674.	14GP12B*81	782.	14GP12W*81	1452.	14GP12H*81	2184.	14GP120*81	975.

①For NEMA 4X fiberglass enclosure, change 7th character of catalog number to F. Example: 14DP32F\*81. Price addition, see page 130. Available through Size 4.

②To order starter sizes 0–1½ in NEMA 3/3R enclosure, change 7th character of catalog number to D. Example: 14DP32D\*81. Price same as NEMA 12. For all other sizes, see page 125.

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