



# A-C REDUCED VOLTAGE-MAGNETIC

## 3 Phase Non-Reversing Part Winding Starters

WHEN ORDERING SPECIFY

- Catalog number
- Voltage and frequency
- Heater Coil number or full load current.

FOR USE WITH WYE CONNECTED PART WINDING MOTORS  $\phi$

| Maximum Horsepower<br>60-50-25 Cycles     |              |              | NEMA<br>Size | General<br>Purpose<br>NEMA 1 |        | Watertight<br>NEMA 4 |        | Dusttight—<br>Industrial<br>NEMA 5-12 |        | Hazardous<br>Gas<br>NEMA 7-D |        | Hazardous<br>Dust<br>NEMA 9-EFG |        |
|-------------------------------------------|--------------|--------------|--------------|------------------------------|--------|----------------------|--------|---------------------------------------|--------|------------------------------|--------|---------------------------------|--------|
| 208/220<br>Volts                          | 440<br>Volts | 550<br>Volts |              | Cat. No.                     | Price  | Cat. No.             | Price  | Cat. No.                              | Price  | Cat. No.                     | Price  | Cat. No.                        | Price  |
| TWO - 2 COIL OVERLOAD RELAYS - RESET ONLY |              |              |              |                              |        |                      |        |                                       |        |                              |        |                                 |        |
| 15                                        | 20           | 20           | 1 PW         | 9612-<br>H30                 | \$225. | 9612-<br>W3          | \$345. | 9612-<br>W12                          | \$325. | 9612-<br>W21                 | \$455. | 9612-<br>W24                    | \$357. |
| 30                                        | 50           | 50           | 2 PW         | H32                          | 318.   | W4                   | 453.   | W13                                   | 443.   | W22                          | 660.   | W25                             | 516.   |
| 60                                        | 100          | 100          | 3 PW         | H34                          | 446.   | W5                   | 641.   | W14                                   | 596.   | W23                          | 1008.  | W26                             | 710.   |
| 100                                       | 200          | 200          | 4 PW         | H95                          | 947.   | W6                   | 1254.  | W15                                   | 1147.  | W28                          | 2130.  | W27                             | 1337.  |
| 200                                       | ---          | ---          | 5 PW         | H121                         | 1900.  | W7                   | 2470.  | W16                                   | 2350.  | ---                          | ---    | ---                             | ---    |
| ---                                       | 400          | ---          | 5 PW         | H122                         | 1900.  | W8                   | 2470.  | W17                                   | 2350.  | ---                          | ---    | ---                             | ---    |
| ---                                       | ---          | 400          | 5 PW         | H123                         | 1900.  | W9                   | 2470.  | W18                                   | 2350.  | ---                          | ---    | ---                             | ---    |
| 400                                       | 800          | 800          | 6 PW         | W1                           | 4127.  | W10                  | 4627.  | W19                                   | 4397.  | ---                          | ---    | ---                             | ---    |
| 600                                       | 1200         | 1200         | 7 PW         | W2                           | 6165.  | W11                  | 6665.  | W20                                   | 6435.  | ---                          | ---    | ---                             | ---    |

TWO - 3 COIL OVERLOAD RELAYS - RESET ONLY

Factory Assembled 3 coil starter, add suffix "T" to catalog number, through size 4 add \$8., size 5 add \$80., size 6 and above add \$140.

Field Conversion from 2 coil to 3 coil, through size 4, use spindle kit 10176-H150—\$2.50 per relay, and heater coil—\$1.50 per overload relay.

For 380 volts 50 cycle use 440 volt prices  
Prices include necessary heater coils at \$1.50 each.

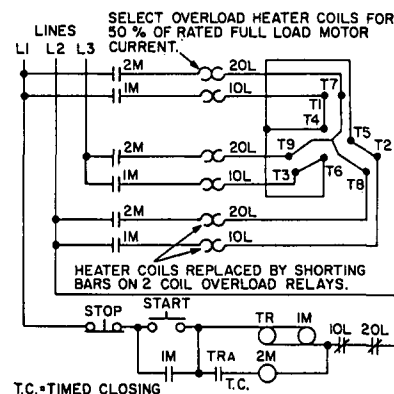
② Contact factory for delta connected motor starters.

HEATER COILS for starters in NEMA 1 enclosures, for average 60 cycle 1800 R.P.M. motors

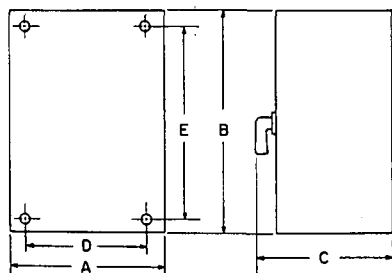
| Horsepower | Catalog Numbers  |              |              | Horsepower | Catalog Numbers  |              |              |
|------------|------------------|--------------|--------------|------------|------------------|--------------|--------------|
|            | 208/220<br>Volts | 440<br>Volts | 550<br>Volts |            | 208/220<br>Volts | 440<br>Volts | 550<br>Volts |
| 5          | 10177-H1034      | 10177-H1028  | 10177-H1066  | 30         | 10177-H1049      | 10177-H1043  | 10177-H1041  |
| 7½         | H1038            | H1032        | H1030        | 40         | H1050            | H1045        | H1043        |
| 10         | H1040            | H1034        | H1032        | 50         | H1052            | H1047        | H1045        |
| 15         | H1043            | H1037        | H1036        | 60         | H1054            | H1047        | H1046        |
| 20         | H1045            | H1040        | H1038        | 75         | H1055            | H1049        | H1047        |
| 25         | H1047            | H1041        | H1039        | 100        | H1058            | H1052        | H1049        |

For more accurate selection and for other enclosures select heater coils by full load current. See index on page 280.

TYPICAL WIRING DIAGRAM



APPROXIMATE DIMENSIONS AND SHIPPING WEIGHTS



| NEMA<br>Size     | Dimensions in Inches |           |                |                |    | Ship.<br>Wt.<br>Lbs. |
|------------------|----------------------|-----------|----------------|----------------|----|----------------------|
|                  | Wide<br>A            | High<br>B | ③<br>Deep<br>C | Mounting       |    |                      |
|                  |                      |           |                | D              | E  |                      |
| NEMA 1 ENCLOSURE |                      |           |                |                |    |                      |
| 1 PW             | 16½                  | 22¾       | 7¾             | 13½            | 20 | 50                   |
| 2 PW             | 18½                  | 30¾       | 9¾             | 15½            | 28 | 110                  |
| 3 PW             | 22¾                  | 30¾       | 9¾             | 19½            | 28 | 145                  |
| 4 PW             | 26¾                  | 34¾       | 9¾             | 23½            | 32 | 200                  |
| 5 PW             | 28                   | 60        | 21 ⅞           | Floor Mounting |    | 470                  |
| 6 PW             | 32                   | 72        | 34½            | Floor Mounting |    | 1500                 |
| ① 7 PW           | 48                   | 72        | 40½            | Floor Mounting |    | 2500                 |

① Size 7 PW has two doors

② Does not include ¾" lock hasp.

OPTIONAL FEATURES, page 129

CUTLER-HAMMER

DISCOUNT SCHEDULE 1CD