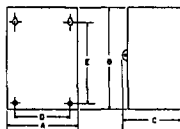


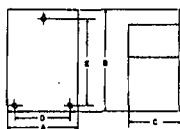
# A-C SINGLE PHASE-MAGNETIC

## Full Voltage Non-Reversing Starters

### APPROXIMATE DIMENSIONS AND SHIPPING WEIGHTS



Enclosed



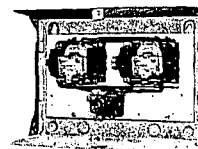
Open

| Size     | Dimensions in Inches |           |           |          |     | Ship.<br>Wt.<br>Lbs. | Dimensions in Inches |           |           |          |     | Ship.<br>Wt.<br>Lbs. |
|----------|----------------------|-----------|-----------|----------|-----|----------------------|----------------------|-----------|-----------|----------|-----|----------------------|
|          | Wide<br>A            | High<br>B | Deep<br>C | Mounting |     |                      | Wide<br>A            | High<br>B | Deep<br>C | Mounting |     |                      |
|          |                      |           |           | D        | E   |                      |                      |           |           | D        | E   |                      |
| NEMA 1   |                      |           |           |          |     |                      | OPEN TYPE            |           |           |          |     |                      |
| 00       | 5%                   | 7         | 4%        | 3½       | 5½  | 7                    | 4%                   | 5½        | 4%        | 2½       | 5   | 3¼                   |
| 0        | 5%                   | 8%        | 5         | 3½       | 6¼  | 7½                   | 4%                   | 6%        | 4%        | 3¼       | 5½  | 3¼                   |
| 1 & 1½   | 6%                   | 9½        | 5%        | 4%       | 7%  | 9½                   | 5%                   | 6¼        | 5         | 4%       | 5¾  | 5                    |
| NEMA 3-4 |                      |           |           |          |     |                      | NEMA 5-12            |           |           |          |     |                      |
| 0        | 8                    | 11¾       | 8%        | 4¾       | 10% | 23                   | 8                    | 11¾       | 8         | 4¾       | 10% | 22                   |
| 1 & 1½   | 8                    | 11¾       | 8%        | 4¾       | 10% | 25                   | 8                    | 11¾       | 8         | 4¾       | 10% | 24                   |
| NEMA 7   |                      |           |           |          |     |                      | NEMA 9               |           |           |          |     |                      |
| 0        | 9¾                   | 11½       | 7%        | 8        | 9%  | 20                   | 7¾                   | 10        | 7         | 5¾       | 9¾  | 14                   |
| 1 & 1½   | 9¾                   | 11½       | 7%        | 8        | 9%  | 22½                  | 8½                   | 10%       | 7¾        | 6%       | 10  | 17                   |

## Full Voltage Reversing Starters

### WHEN ORDERING SPECIFY

- Catalog number
- Voltage and frequency
- Heater coil number or full load current



NEMA Type 1, Horizontal with Cover Removed

### FOR REMOTE CONTROL

| Non-Plugging Max. HP 60-50-25 Cycles |           | NEMA Size | Poles | General Purpose NEMA 1 |                 |       | Weatherproof-Watertight NEMA 3-4 |        | Dusttight-Industrial NEMA 5-12 |       | Hazardous Gas NEMA 7-D |        | Hazardous Dust NEMA 9-EFG |        | Open Types        |                 |       |
|--------------------------------------|-----------|-----------|-------|------------------------|-----------------|-------|----------------------------------|--------|--------------------------------|-------|------------------------|--------|---------------------------|--------|-------------------|-----------------|-------|
| 115 Volts                            | 230 Volts |           |       | Vertical Cat. No.      | Horiz. Cat. No. | Price | Cat. No.                         | Price  | Cat. No.                       | Price | Cat. No.               | Price  | Cat. No.                  | Price  | Vertical Cat. No. | Horiz. Cat. No. | Price |
| 1/2                                  | ---       | 00        | 2     | ---                    | 9595-H2176      | \$66. | 9595-W9                          | \$112. | ---                            | ---   | ---                    | ---    | 9595-W13                  | \$112. | ---               | 9595-W17        | \$62. |
| ---                                  | 3/4       |           | 2     | ---                    | H2177           | 66.   | W10                              | 112.   | ---                            | ---   | ---                    | ---    | W14                       | 112.   | ---               | W18             | 62.   |
| 1/2                                  | ---       |           | 3     | ---                    | W7              | 68.   | W11                              | 114.   | ---                            | ---   | ---                    | ---    | W15                       | 114.   | ---               | W19             | 64.   |
| ---                                  | 3/4       |           | 3     | ---                    | W8              | 68.   | W12                              | 114.   | ---                            | ---   | ---                    | ---    | W16                       | 114.   | ---               | W20             | 64.   |
| 1                                    | 2         | 0         | 2     | 9656-H18               | 9656-H25        | 78.   | 9656-W17                         | 124.   | 9656-W21                       | \$96. | 9656-W25               | \$239. | 9656-W31                  | 124.   | 9656-H4           | 9656-H11        | 74.   |
| ---                                  | ---       |           | 3     | H46                    | H62             | 80.   | W18                              | 126.   | W22                            | 98.   | W26                    | 241.   | W32                       | 126.   | W35               | W37             | 76.   |
| 2                                    | 3         | 1         | 2     | H118                   | H125            | 90.   | W19                              | 154.   | W23                            | 108.  | W27                    | 251.   | W33                       | 154.   | H104              | H111            | 84.   |
| ---                                  | ---       |           | 3     | W13                    | W14             | 92.   | W20                              | 156.   | W24                            | 110.  | W28                    | 253.   | W34                       | 156.   | W36               | W38             | 86.   |

Prices include one heater coil at \$1.50.

### PLUGGING AND JOGGING SERVICE HORSEPOWER RATINGS

| Volts | Maximum horsepower where operation is interrupted more than five times per minute. |        |        |
|-------|------------------------------------------------------------------------------------|--------|--------|
|       | Size 00                                                                            | Size 0 | Size 1 |
| 115   | 1/4                                                                                | 1/2    | 1      |
| 230   | 1/4                                                                                | 1/2    | 2      |

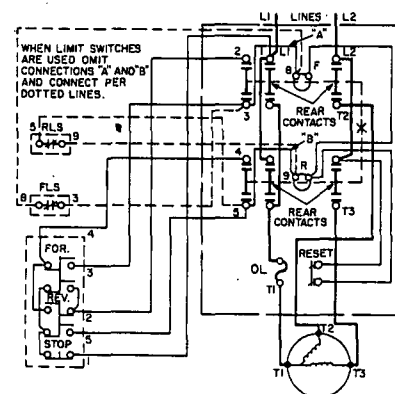
- 1/6 to 3/4 selection for 2 pole only.
- 60 cycle only. Order 50 or 25 cycle by description and complete motor data.
- Except size 00.

### HEATER COILS for starters in NEMA 1 enclosures for average 60 cycle motors.

| H.P.  | Catalog Numbers |             |
|-------|-----------------|-------------|
|       | 115 Volts       | 230 Volts   |
| 1/6   | 9104-H1361      | 9104-H1354  |
| 1/4   | H1364           | H1357       |
| 1/2   | H1367           | H1359       |
| 3/4   | H1370           | H1363       |
| 1     | H1374           | H1366       |
| 1 1/2 | 10177-H1041     | 10177-H1035 |
| 2     | H1043           | H1037       |
| 3     | H1045           | H1039       |
| ---   | ---             | H1042       |

For more accurate selection and other enclosures, select heater coils by full load current. See index on page 281.

### TYPICAL WIRING DIAGRAM



OPTIONAL FEATURES, page 146.

CUTLER-HAMMER

DISCOUNT SCHEDULE 1 CD