



# MOTOR and WIRE RATING DATA

269

**MAGNET COIL SUFFIX NUMBERS** — Apply to Catalog Numbers 9560 9575, 9584, 9586, 9589, 9594, 9656, 9658, 9736 and 9739 only.

| Voltage | Frequency |           |           |
|---------|-----------|-----------|-----------|
|         | 60 cycles | 50 cycles | 25 cycles |
| 6       | -26       | -30       | -34       |
| 12      | -27       | -31       | -35       |
| 24      | -28       | -32       | -36       |
| 32      | -29       | -33       | -37       |
| 110     | -1        | -5        | -10       |
| 115     | -14       | -16       | -18       |
| 115/120 | -46       | ---       | ---       |
| 115/230 | -20       | -21       | -22       |
| 120     | -39       | -43       | -44       |
| 208     | -45       | ---       | ---       |
| 208/220 | -2        | ---       | ---       |
| 220     | -42       | -6        | -11       |
| 220/240 | -23       | -24       | -25       |
| 230     | -15       | -17       | -19       |
| 240     | -40       | ---       | ---       |
| 380     | ---       | -7        | ---       |
| 440     | -3        | -8        | -12       |
| 480     | -41       | ---       | ---       |
| 500     | ---       | -38       | ---       |
| 550     | -4        | -9        | -13       |

This section contains:

Pages

|                                                               |         |
|---------------------------------------------------------------|---------|
| Magnet coil suffix numbers                                    | 269     |
| Average motor ampere ratings                                  | 272-273 |
| Motor branch circuit fuse, wire and circuit breaker selection | 271     |
| Relay operating times                                         | 278     |
| Resistors — service classifications and recommendations       | 276-278 |
| Transformer selection for control circuits                    | 274-275 |
| Wire:                                                         |         |
| Current-carrying capacities                                   | 270     |
| Motor branch circuit selection                                | 271     |
| Number per conduit or raceway                                 | 269     |
| Voltage drop                                                  | 270     |

## WIRE and CONDUIT TABLES — Based on 1962 N.E.C.

**MAXIMUM NUMBER OF CONDUCTORS IN CONDUIT OR TUBING** — Types RF-2, RFH-2, R, RH, RW, RH-RW, RHW, RHH, RU, RUH, RUW, SF, SFF, TF, T, TW, THW and THWN (See sections 300-17, 300-18, 346-6 and 348-6 of 1962 N.E.C.) — Derating factor for more than three conductors in raceways, see Note 8 on next page.

| Wire Size<br>AWG<br>or<br>MCM | Maximum Number of Conductors in Conduit or Tubing<br>(Based upon % conductor fill, Table 3, Chap. 9, for new work) |             |           |               |               |           |               |           |               |           |           |           |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------|-----------|---------------|---------------|-----------|---------------|-----------|---------------|-----------|-----------|-----------|
|                               | 1/2<br>Inch                                                                                                        | 3/4<br>Inch | 1<br>Inch | 1 1/4<br>Inch | 1 1/2<br>Inch | 2<br>Inch | 2 1/2<br>Inch | 3<br>Inch | 3 1/2<br>Inch | 4<br>Inch | 5<br>Inch | 6<br>Inch |
| 18                            | 7                                                                                                                  | 12          | 20        | 35            | 49            | 80        | 115           | 176       |               |           |           |           |
| 16                            | 6                                                                                                                  | 10          | 17        | 30            | 41            | 68        | 98            | 150       |               |           |           |           |
| 14                            | 4                                                                                                                  | 6           | 10        | 18            | 25            | 41        | 58            | 90        | 121           | 155       |           |           |
| 12                            | 3                                                                                                                  | 5           | 8         | 15            | 21            | 34        | 50            | 76        | 103           | 132       | 208       |           |
| 10                            | 1                                                                                                                  | 4           | 7         | 13            | 17            | 29        | 41            | 64        | 86            | 110       | 173       |           |
| 8                             | 1                                                                                                                  | 3           | 4         | 7             | 10            | 17        | 25            | 38        | 52            | 67        | 105       | 152       |
| 6                             | 1                                                                                                                  | 1           | 3         | 4             | 6             | 10        | 15            | 23        | 32            | 41        | 64        | 93        |
| 4                             | 1                                                                                                                  | 1           | 1         | 3             | 5             | 8         | 12            | 18        | 24            | 31        | 49        | 72        |
| 3                             |                                                                                                                    | 1           | 1         | 3             | 4             | 7         | 10            | 16        | 21            | 28        | 44        | 63        |
| 2                             |                                                                                                                    | 1           | 1         | 3             | 3             | 6         | 9             | 14        | 19            | 24        | 38        | 55        |
| 1                             |                                                                                                                    | 1           | 1         | 1             | 3             | 4         | 7             | 10        | 14            | 18        | 29        | 42        |
| 0                             |                                                                                                                    |             | 1         | 1             | 2             | 4         | 6             | 9         | 12            | 16        | 25        | 37        |
| 00                            |                                                                                                                    |             | 1         | 1             | 1             | 3         | 5             | 8         | 11            | 14        | 22        | 32        |
| 000                           |                                                                                                                    |             | 1         | 1             | 1             | 3         | 4             | 7         | 9             | 12        | 19        | 27        |
| 0000                          |                                                                                                                    |             | 1         | 1             | 1             | 2         | 3             | 6         | 8             | 10        | 16        | 23        |
| 250                           |                                                                                                                    |             |           | 1             | 1             | 1         | 3             | 5         | 6             | 8         | 13        | 19        |
| 300                           |                                                                                                                    |             |           | 1             | 1             | 1         | 3             | 4         | 5             | 7         | 11        | 16        |
| 350                           |                                                                                                                    |             |           | 1             | 1             | 1         | 1             | 3         | 5             | 6         | 10        | 15        |
| 400                           |                                                                                                                    |             |           |               | 1             | 1         | 1             | 3         | 4             | 6         | 9         | 13        |
| 500                           |                                                                                                                    |             |           |               | 1             | 1         | 1             | 3         | 4             | 5         | 8         | 11        |
| 600                           |                                                                                                                    |             |           |               |               | 1         | 1             | 1         | 3             | 4         | 6         | 9         |
| 700                           |                                                                                                                    |             |           |               |               | 1         | 1             | 1         | 3             | 3         | 6         | 8         |
| 750                           |                                                                                                                    |             |           |               |               | 1         | 1             | 1         | 3             | 3         | 5         | 8         |
| 800                           |                                                                                                                    |             |           |               |               | 1         | 1             | 1         | 2             | 3         | 5         | 7         |
| 900                           |                                                                                                                    |             |           |               |               | 1         | 1             | 1         | 1             | 3         | 4         | 7         |
| 1000                          |                                                                                                                    |             |           |               |               | 1         | 1             | 1         | 1             | 3         | 4         | 6         |
| 1250                          |                                                                                                                    |             |           |               |               |           | 1             | 1         | 1             | 1         | 3         | 5         |
| 1500                          |                                                                                                                    |             |           |               |               |           |               | 1         | 1             | 1         | 3         | 4         |
| 1750                          |                                                                                                                    |             |           |               |               |           |               | 1         | 1             | 1         | 2         | 4         |
| 2000                          |                                                                                                                    |             |           |               |               |           |               | 1         | 1             | 1         | 1         | 3         |

① Where an existing service run of conduit or electrical metallic tubing does not exceed 50 ft. in length and does not contain more than the equivalent of two quarter bends from and to end, two No. 4 insulated and one No. 4 bare conductors may be installed in 1-inch conduit or tubing.

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269

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