



---

# Customer information packet

## EM3764T

3HP, 1165RPM, 3PH, 60HZ, 213T, 0736M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 213T                                                        |
| Frame Material                 | Iron                                                        |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | None                                                        |
| Haz Area Division              | Not Applicable                                              |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 3.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                          |
| Agency Approvals               | CSA EEV<br>CURUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR   |
| Ambient Temperature            | 40 °C                                                       |
| Auxiliary Box                  | NO AUXILLARY BOX                                            |
| Auxiliary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 9.000 A @ 208.0 V<br>9.000 A @ 230.0 V<br>4.500 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 89.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |
| Feedback Device                | NO FEEDBACK                                                 |

## Part detail

|              |            |
|--------------|------------|
| Revision     | V          |
| Type         | AC         |
| Mech. spec.  | 07H002     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 07WGX970   |
| Layout       | 07LYH002   |
| Eff. date    | 04-29-2024 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 06-19-2010 |

|                               |                       |
|-------------------------------|-----------------------|
| Front Face Code               | Standard              |
| Front Shaft Indicator         | None                  |
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 4.5 a                 |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | K                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 0736M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 6                     |
| Overall Length                | 18.45 IN              |
| Power Factor                  | 71                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.375 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1165 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |

|                            |                     |
|----------------------------|---------------------|
| Thermal Device - Winding   | None                |
| Vibration Sensor Indicator | No Vibration Sensor |
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

## Nameplate

## NP3441LUA

|                           |                             |      |     |      |   |       |   |  |  |  |
|---------------------------|-----------------------------|------|-----|------|---|-------|---|--|--|--|
| CAT.NO.                   | EM3764T                     |      |     |      |   |       |   |  |  |  |
| SPEC                      | 07H002X970G1                |      |     |      |   |       |   |  |  |  |
| HP                        | 3                           |      |     |      |   |       |   |  |  |  |
| VOLTS                     | 230/460                     |      |     |      |   |       |   |  |  |  |
| AMPS                      | 9/4.5                       |      |     |      |   |       |   |  |  |  |
| RPM                       | 1165                        |      |     |      |   |       |   |  |  |  |
| FRAME                     | 213T                        |      | HZ  | 60   |   | PH    | 3 |  |  |  |
| SF                        | 1.15                        | CODE | K   | DES  | B | CLASS | F |  |  |  |
| NEMA NOM. EFF             | 89.5                        | PF   | 71  |      |   |       |   |  |  |  |
| RATING                    | 40C AMB-CONT                |      |     |      |   |       |   |  |  |  |
| CC                        | 010A                        |      |     |      |   |       |   |  |  |  |
| ENCL                      | TEFC                        | SER  |     |      |   |       |   |  |  |  |
| DE                        | 6307                        |      | ODE | 6206 |   |       |   |  |  |  |
| VPWM INVERTER READY       | SFA 9.8/4.9                 |      |     |      |   |       |   |  |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |                             |      |     |      |   |       |   |  |  |  |
|                           | 50Hz 3HP 190/380V 10.4/5.2A |      |     |      |   |       |   |  |  |  |
|                           | SF1.0                       |      |     |      |   |       |   |  |  |  |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 37-1304     | C FACE KIT  | A8         |

**AC Induction Motor Performance Data**

Record # 53091

Typical performance - not guaranteed values

| Winding: 07WGX970-R023 |    |              | Type: 0736M  |                                          | Enclosure: TEFC       |                |         |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|---------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                |         |
| Rated Output (HP)      |    | 3            |              | Full Load Torque                         |                       | 13.61 LB-FT    |         |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line |         |
| Full Load Amps         |    | 9/4.5        |              | Breakdown Torque                         |                       | 51.71 LB-FT    |         |
| R.P.M.                 |    | 1165         |              | Pull-up Torque                           |                       | 25.77 LB-FT    |         |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 31.08 LB-FT    |         |
| NEMA Design Code       |    | B            | KVA Code     | K                                        | Starting Current      |                | 32.19 A |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 2.26 A         |         |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor | 71                                       | Line-line Res. @ 25°C |                | 3 Ω     |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 34°C           |         |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                   |                       | 41°C           |         |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 23.3           |         |
|                        |    |              |              | Rotor inertia                            |                       | 0.895 LB-FT2   |         |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 35   | 54   | 65   | 72   | 75   | 76   | 73   |
| Efficiency      | 82.8 | 88.3 | 89.7 | 89.6 | 89   | 87.3 | 89.4 |
| Speed           | 1192 | 1184 | 1176 | 1166 | 1156 | 1143 | 1161 |
| Line amperes    | 2.48 | 2.96 | 3.62 | 4.41 | 5.29 | 6.33 | 4.99 |

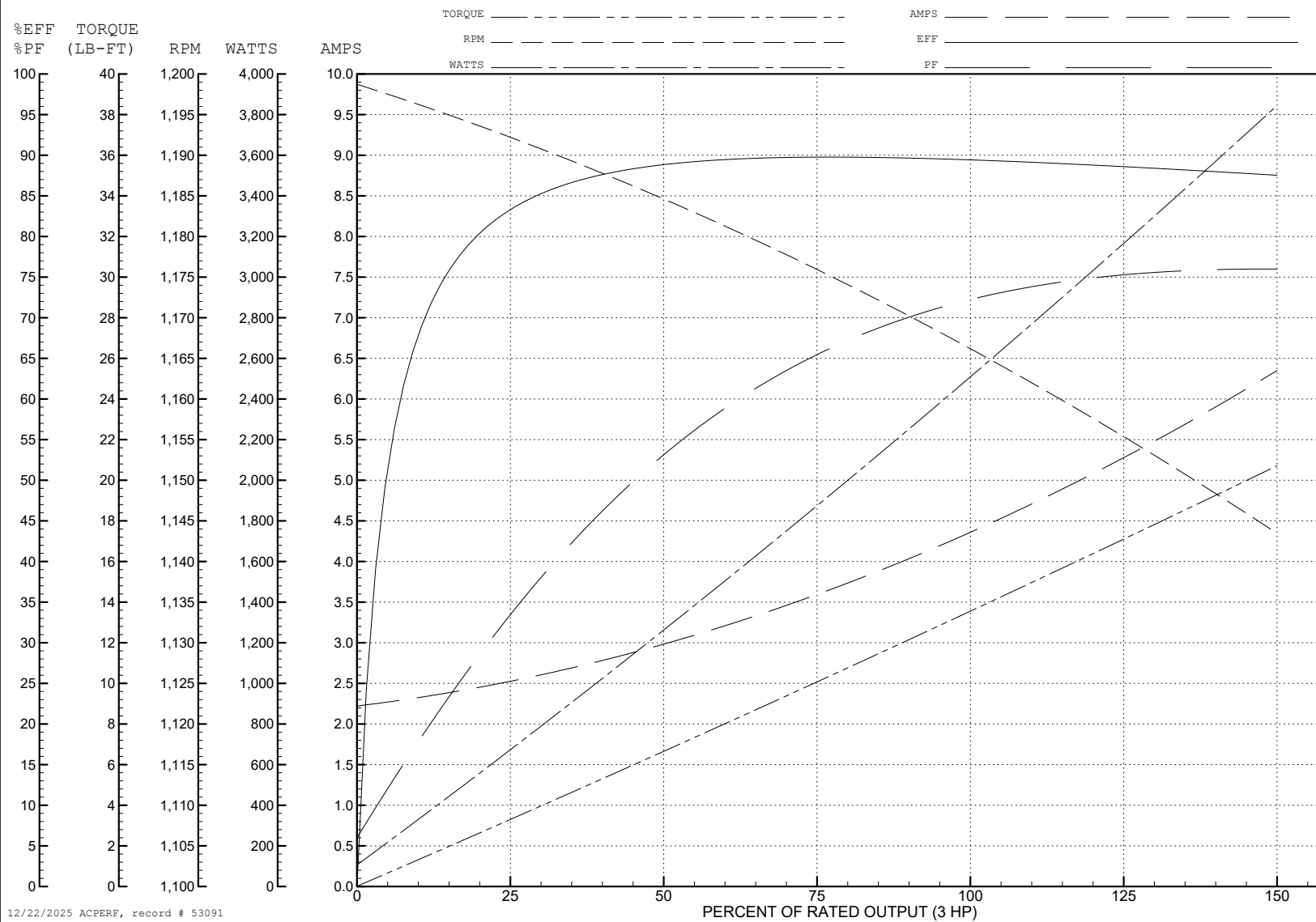
ABB Motors and Mechanical Inc.

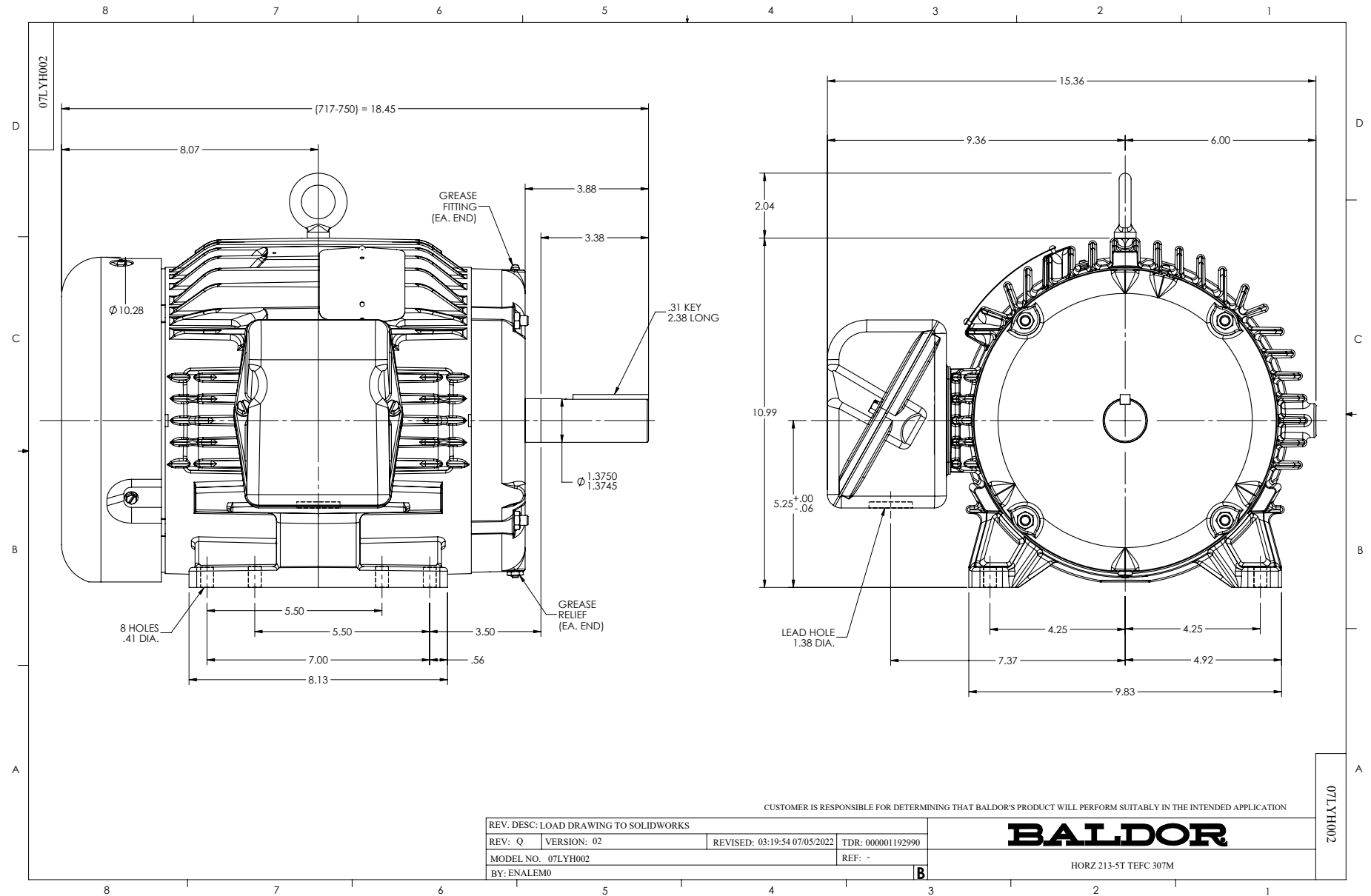
WINDING # 07WGX970

Typical performance - not guaranteed values.

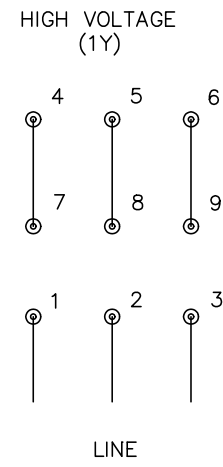
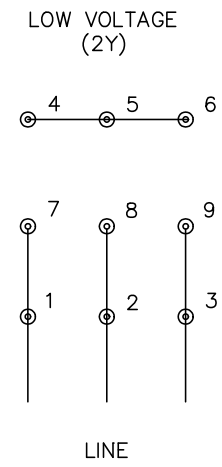
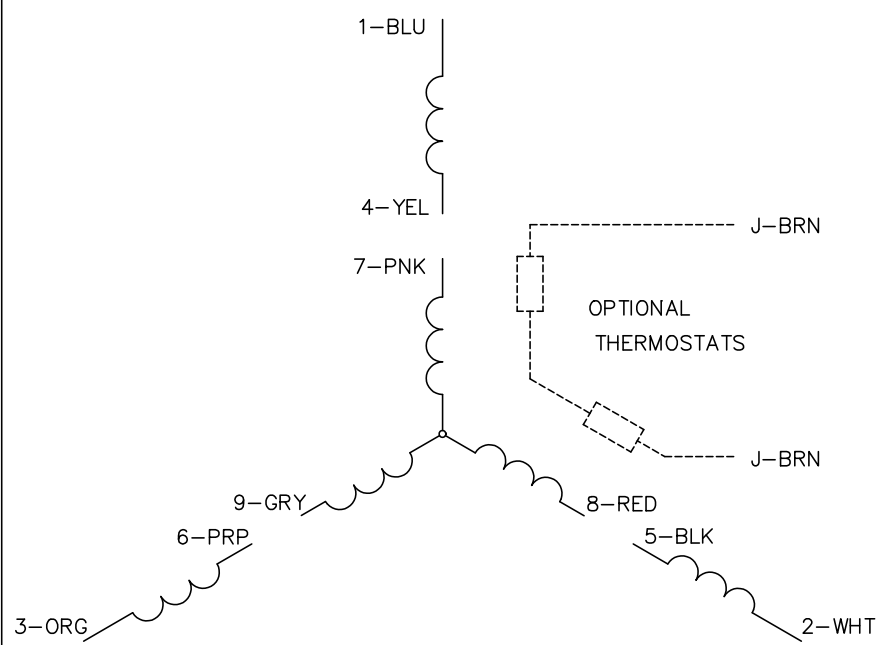
3 HP 3 PH 60 HZ 1165 RPM 460 V 0736M

TORQUES (LB-FT): PO=51.71 PU=25.77 LR=31.08 LRA=32.19





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005