

# ABB BALDOR RELIANCE III

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## Customer information packet

### CEM3714T

10HP, 1768RPM, 3PH, 60HZ, 215TC, 3750M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                                |
|--------------------------------|----------------------------------------------------------------|
| Enclosure                      | TEFC                                                           |
| Frame                          | 215TC                                                          |
| Frame Material                 | Steel                                                          |
| Frequency                      | 60.00 Hz                                                       |
| Haz Area Class and Group       | None                                                           |
| Haz Area Division              | Not Applicable                                                 |
| Motor Letter Type              | Three Phase                                                    |
| Output @ Frequency             | 10.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                              |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                               |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| Agency Approvals               | CURUSEEV<br>NEMA PREMIUM                                       |
| 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              | 12.400 A @ 460.0 V<br>24.800 A @ 230.0 V<br>27.000 A @ 208.0 V |
| Design Code                    | A                                                              |
| Drip Cover                     | No Drip Cover                                                  |
| Duty Rating                    | CONT                                                           |
| Efficiency @ 100% Load         | 91.7 %                                                         |
| Electrically Isolated Bearing  | Not Electrically Isolated                                      |
| Feedback Device                | NO FEEDBACK                                                    |
| Front Shaft Indicator          | None                                                           |
| Heater Indicator               | No Heater                                                      |
| High Voltage Full Load Amps    | 12.4 a                                                         |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | -          |
| Type         | AC         |
| Mech. spec.  | 37G814     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGZ711   |
| Layout       | 37LYG814   |
| Eff. date    | 11-24-2025 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#14       |
| Proprietary  | False      |
| Created date | 11-05-2025 |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Insulation Class</b>              | F                     |
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | K                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 14 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 3750M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4                     |
| <b>Overall Length</b>                | 20.50 IN              |
| <b>Power Factor</b>                  | 85                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Ball                  |
| <b>Pulley Face Code</b>              | C-Face                |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <b>RoHS Status</b>                   | ROHS COMPLIANT        |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.375 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | No Slinger            |
| <b>Speed</b>                         | 1768 rpm              |
| <b>Speed Code</b>                    | Single Speed          |
| <b>Starting Method</b>               | Direct on line        |
| <b>Thermal Device - Bearing</b>      | None                  |
| <b>Thermal Device - Winding</b>      | None                  |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor   |
| <b>Winding Thermal 1</b>             | None                  |
| <b>Winding Thermal 2</b>             | None                  |

Nameplate

| NP3441LUA                     |               |     |      |      |     |   |       |   |       |
|-------------------------------|---------------|-----|------|------|-----|---|-------|---|-------|
| CAT.NO.                       | CEM3714T      |     |      |      |     |   |       |   |       |
| SPEC                          | 37G814Z711    |     |      |      |     |   |       |   |       |
| HP                            | 10            |     |      |      |     |   |       |   |       |
| VOLTS                         | 230/460       |     |      |      |     |   |       |   |       |
| AMPS                          | 24.8/12.4     |     |      |      |     |   |       |   |       |
| RPM                           | 1768          |     |      |      |     |   |       |   |       |
| FRAME                         | 215TC         |     | HZ   | 60   |     |   | PH    | 3 |       |
| SF                            | 1.15          |     | CODE | K    | DES | A | CLASS | F |       |
| NEMA NOM. EFF                 | 91.7          |     | PF   | 85   |     |   |       |   |       |
| RATING                        | 40C AMB-CONT  |     |      |      |     |   |       |   |       |
| CC                            | 010A          |     |      |      |     |   |       |   |       |
| ENCL                          | TEFC          | SER |      |      |     |   |       |   |       |
| DE                            | 6307          |     | ODE  | 6206 |     |   |       |   |       |
| VPWM INVERTER READY           | SFA 28.2/14.1 |     |      |      |     |   |       |   |       |
| CT6-60H(10:1)VT3-60H(20:1     |               |     |      |      |     |   |       |   |       |
| 50HZ 10HP 190/380V 29.8/14.9A |               |     |      |      |     |   |       |   | SF1.0 |

**AC Induction Motor Performance Data**

Record # 115760

Typical performance - not guaranteed values

| Winding: 37WGZ711-R001 |    |              | Type: 3750M  |                                          | Enclosure: TEFC |                       |          |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------|-----------------------|----------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                 |                       |          |
| Rated Output (HP)      |    | 10           |              | Full Load Torque                         |                 | 29.79 LB-FT           |          |
| Volts                  |    | 230/460      |              | Start Configuration                      |                 | direct on line        |          |
| Full Load Amps         |    | 24.8/12.4    |              | Breakdown Torque                         |                 | 93.4 LB-FT            |          |
| R.P.M.                 |    | 1768         |              | Pull-up Torque                           |                 | 44.7 LB-FT            |          |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                 | 55.5 LB-FT            |          |
| NEMA Design Code       |    | A            | KVA Code     | K                                        |                 | Starting Current      | 90.5 A   |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                 | 5.11 A                |          |
| NEMA Nom. Eff.         |    | 91.7         | Power Factor | 85                                       |                 | Line-line Res. @ 25°C | 1.1801 Ω |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                 | 77°C                  |          |
| S.F. Amps              |    | 28.2/14.1    |              | Temp. Rise @ S.F. Load                   |                 | 108°C                 |          |
|                        |    |              |              | Locked-rotor Power Factor                |                 | 37.2                  |          |

**Load Characteristics 460 V, 60 Hz, 10 HP**

| % of Rated Load | 25     | 50   | 75     | 100    | 125    | 150    | S.F. |
|-----------------|--------|------|--------|--------|--------|--------|------|
| Power Factor    | 45     | 68   | 78     | 82     | 85     | 85     | 84   |
| Efficiency      | 89.9   | 92.6 | 92.6   | 91.8   | 90.5   | 88.9   | 91   |
| Speed           | 1792.4 | 1785 | 1776.3 | 1767.2 | 1756.7 | 1745.2 | 1756 |
| Line amperes    | 5.83   | 7.54 | 9.79   | 12.4   | 15.3   | 18.6   | 14.2 |

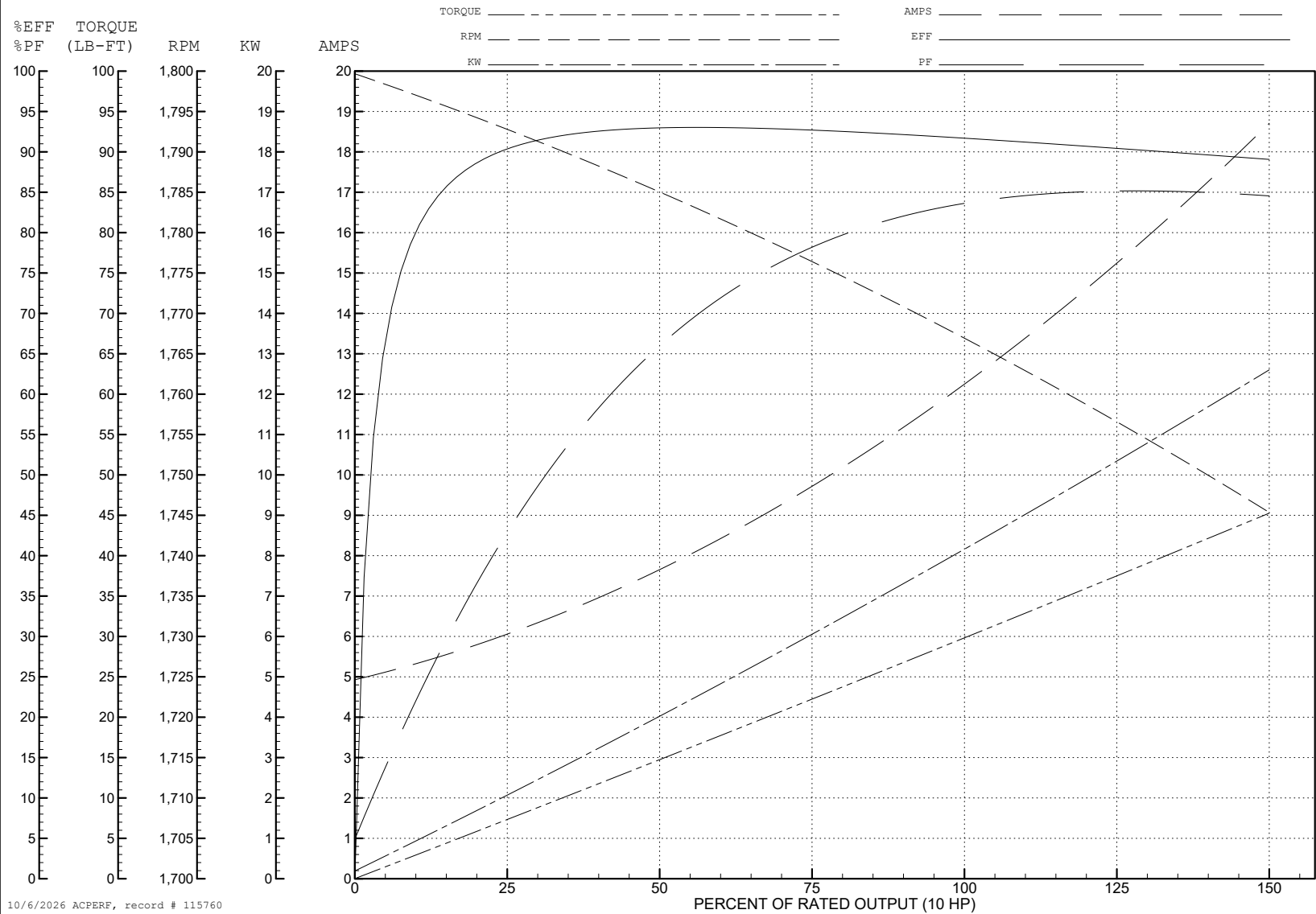
ABB Motors and Mechanical Inc.

WINDING # 37WGZ711

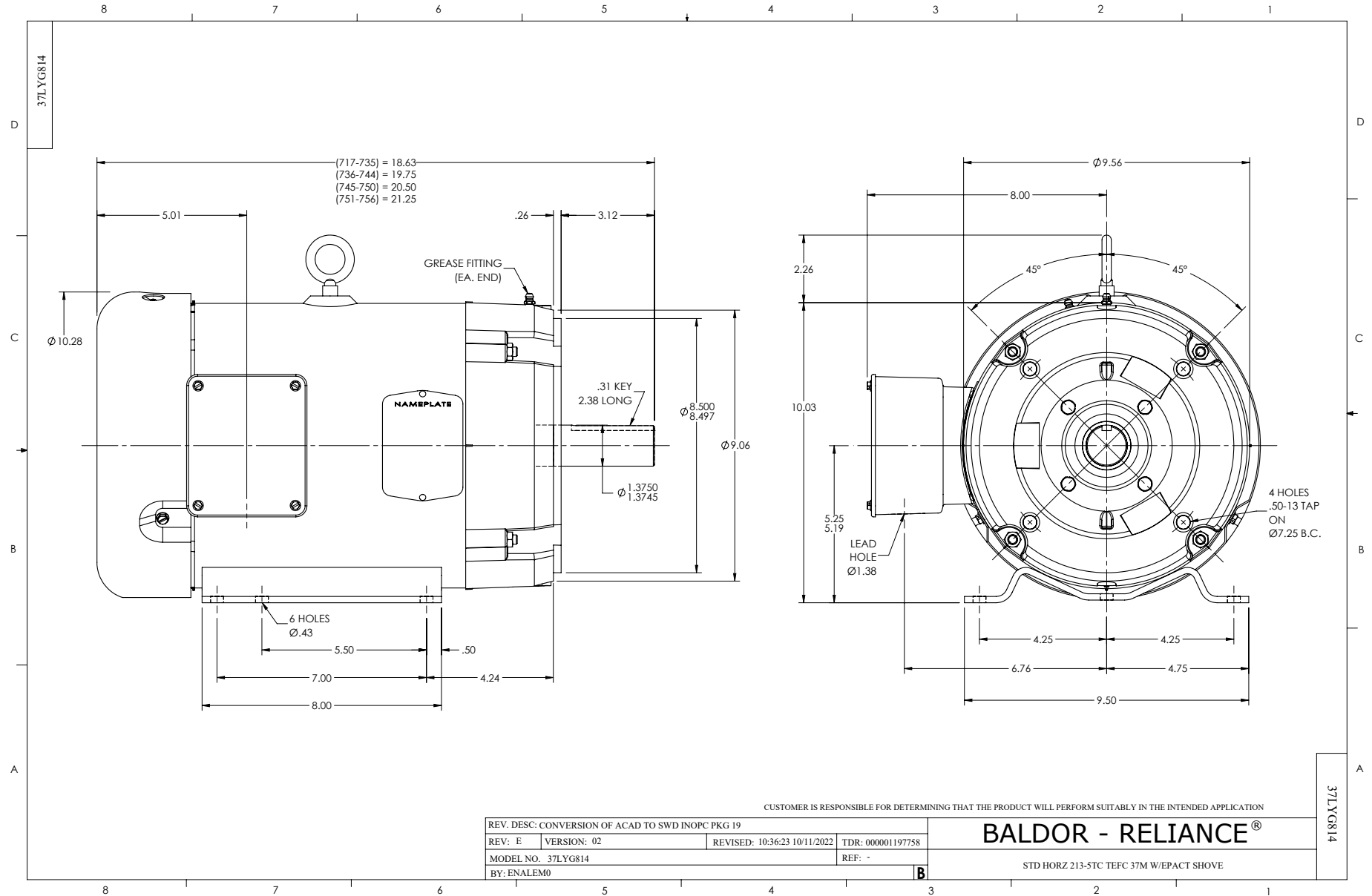
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1768 RPM 460 V 3750M

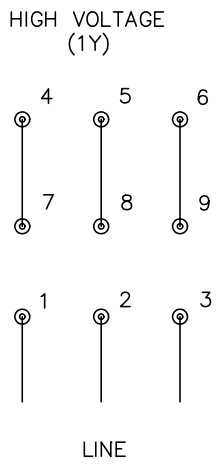
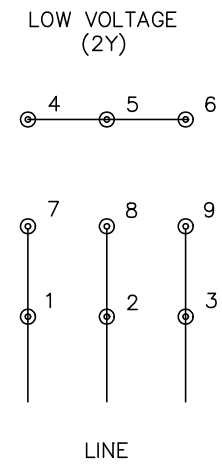
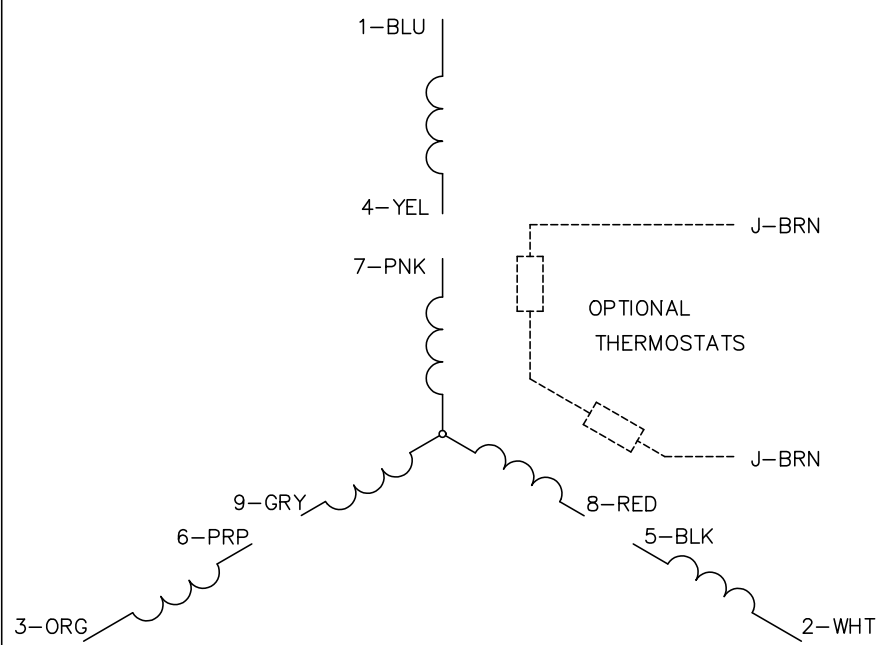
TORQUES (LB-FT): PO=93.4 PU=44.7 LR=55.5 LRA=90.5



10/6/2026 ACPERF, record # 115760



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