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# Customer information packet

## M3218T

5HP, 1750RPM, 3PH, 60HZ, 184T, 3630M, OPSB, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | OPSB                                                          |
| Frame                          | 184T                                                          |
| Frequency                      | 60.00 Hz                                                      |
| Haz Area Class and Group       | None                                                          |
| Haz Area Division              | Not Applicable                                                |
| Motor Letter Type              | Three Phase                                                   |
| Output @ Frequency             | 5.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                             |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ         |
| Agency Approvals               | UR<br>CSA                                                     |
| Ambient Temperature            | 40 °C                                                         |
| Auxillary Box                  | No Auxillary Box                                              |
| Auxillary Box Lead Termination | None                                                          |
| Base Indicator                 | Rigid                                                         |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                       |
| Blower                         | None                                                          |
| Current @ Voltage              | 14.400 A @ 230.0 V<br>15.600 A @ 208.0 V<br>7.200 A @ 460.0 V |
| Design Code                    | A                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 87.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Front Face Code                | Standard                                                      |
| Front Shaft Indicator          | None                                                          |
| Heater Indicator               | No Heater                                                     |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  | 36B101     |
| Base         |            |
| Status       | NLA/A      |
| Elec. spec.  | 36WGS034   |
| Layout       | 36LYB101   |
| Eff. date    | 10-12-2010 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 04-03-2008 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 7.2 a               |
| Insulation Class              | B                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | J                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 9 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3630M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 15.00 IN            |
| Power Factor                  | 74                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 1.125 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1750 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

| NP1256L      |               |      |     |      |   |       |   |  |  |
|--------------|---------------|------|-----|------|---|-------|---|--|--|
| CAT.NO.      | M3218T        |      |     |      |   |       |   |  |  |
| SPEC.        | 36B101S034H1  |      |     |      |   |       |   |  |  |
| HP           | 5             |      |     |      |   |       |   |  |  |
| VOLTS        | 208-230/460   |      |     |      |   |       |   |  |  |
| AMP          | 15.6-14.4/7.2 |      |     |      |   |       |   |  |  |
| RPM          | 1750          |      |     |      |   |       |   |  |  |
| FRAME        | 184T          |      | HZ  | 60   |   | PH    | 3 |  |  |
| SER.F.       | 1.15          | CODE | J   | DES  | A | CLASS | B |  |  |
| NEMA-NOM-EFF | 87.5          | PF   | 74  |      |   |       |   |  |  |
| RATING       | 40C AMB-CONT  |      |     |      |   |       |   |  |  |
| CC           | 010A          |      |     |      |   |       |   |  |  |
| DE           | 6206          |      | ODE | 6205 |   |       |   |  |  |
| ENCL         | OPSB          | SN   |     |      |   |       |   |  |  |

## Parts list

| Part number    | Description                              | Quantity |
|----------------|------------------------------------------|----------|
| SA169812       | SA 36B101S034H1                          | 1.000 ea |
| RA158072       | RA 36B101S034H1                          | 1.000 ea |
| S/P101-000-000 | EPACT PROCEDURES-FS PLANT-POLYREX EM, NO | 1.000 ea |
| 36CB3004       | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 ea |
| 51XB1016A08    | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 ea |
| 11XW1032G06    | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01      | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea |
| 36EP3204B00    | FR ENDPLATE, ASSEMBLY FOR ROUTING        | 1.000 ea |
| HW4500A01      | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW5100A05      | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 36EP3205D00    | PU ENDPLATE, ASSEMBLY FOR ROUTING        | 1.000 ea |
| HW4500A01      | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY2520A12      | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 ea |
| 36CB4516       | 750LIPPED CB LID - GALVANNEAL            | 1.000 ea |
| 51XW0832A07    | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501E16      | KEY, 1/4 SQ X 1.750                      | 1.000 ea |
| HA7000A02      | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |
| 85XU0407S04    | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MJ1000A02      | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| MG1000G27      | MED CHARCOAL METALLIC GREY               | 0.022 ga |
| 36AD2004A01    | BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA | 2.000 ea |
| HA3101A25      | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 ea |
| LB1125C04      | STD-E (STOCK CTN LABEL STD-E WITH FLAG)  | 1.000 ea |
| LC0005E01      | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 ea |
| NP1256L        | ALUM UL CC INDUSTRIAL MOTOR A60          | 1.000 ea |
| 36PA1000       | PKG GRP, PRINT PK1016A06                 | 1.000 ea |
| MN416A01       | TAG-INSTAL-MAINT no wire (2400 bx)4/22   | 1.000 ea |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 36-3403       | C FACE KIT   | A8         |
| 36EP1405A09SP | D-FLANGE KIT |            |

## AC Induction Motor Performance Data

Record # 43516

Typical performance - not guaranteed values

| Winding: 36WGS034-R001 |    |               | Type: 3630M                              |                     | Enclosure: OPSB         |                       |              |
|------------------------|----|---------------|------------------------------------------|---------------------|-------------------------|-----------------------|--------------|
| Nameplate Data         |    |               | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                       |              |
| Rated Output (HP)      |    | 5             | Full Load Torque                         |                     | 14.8 LB-FT              |                       |              |
| Volts                  |    | 208-230/460   | Start Configuration                      |                     | direct on line          |                       |              |
| Full Load Amps         |    | 15.6-14.4/7.2 | Breakdown Torque                         |                     | 53.8 LB-FT              |                       |              |
| R.P.M.                 |    | 1750          | Pull-up Torque                           |                     | 29.2 LB-FT              |                       |              |
| Hz                     | 60 | Phase         | 3                                        | Locked-rotor Torque |                         | 34 LB-FT              |              |
| NEMA Design Code       |    | A             | KVA Code                                 |                     | J                       | Starting Current      | 48 A         |
| Service Factor (S.F.)  |    | 1.15          | No-load Current                          |                     | 4.21 A                  |                       |              |
| NEMA Nom. Eff.         |    | 87.5          | Power Factor                             |                     | 74                      | Line-line Res. @ 25°C | 2.79 Ω       |
| Rating - Duty          |    | 40C           | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                       | 50°C         |
| S.F. Amps              |    |               |                                          |                     | Temp. Rise @ S.F. Load  |                       | 60°C         |
|                        |    |               |                                          |                     | Rotor inertia           |                       | 0.279 LB-FT2 |

## Load Characteristics 460 V, 60 Hz, 5 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 33   | 53   | 66   | 74   | 78   | 82   | 76   |
| Efficiency      | 76.4 | 85.4 | 87.5 | 87.8 | 87.2 | 85   | 87.4 |
| Speed           | 1788 | 1778 | 1766 | 1754 | 1740 | 1721 | 1746 |
| Line amperes    | 4.46 | 5.11 | 5.99 | 7.16 | 8.49 | 10.4 | 7.96 |

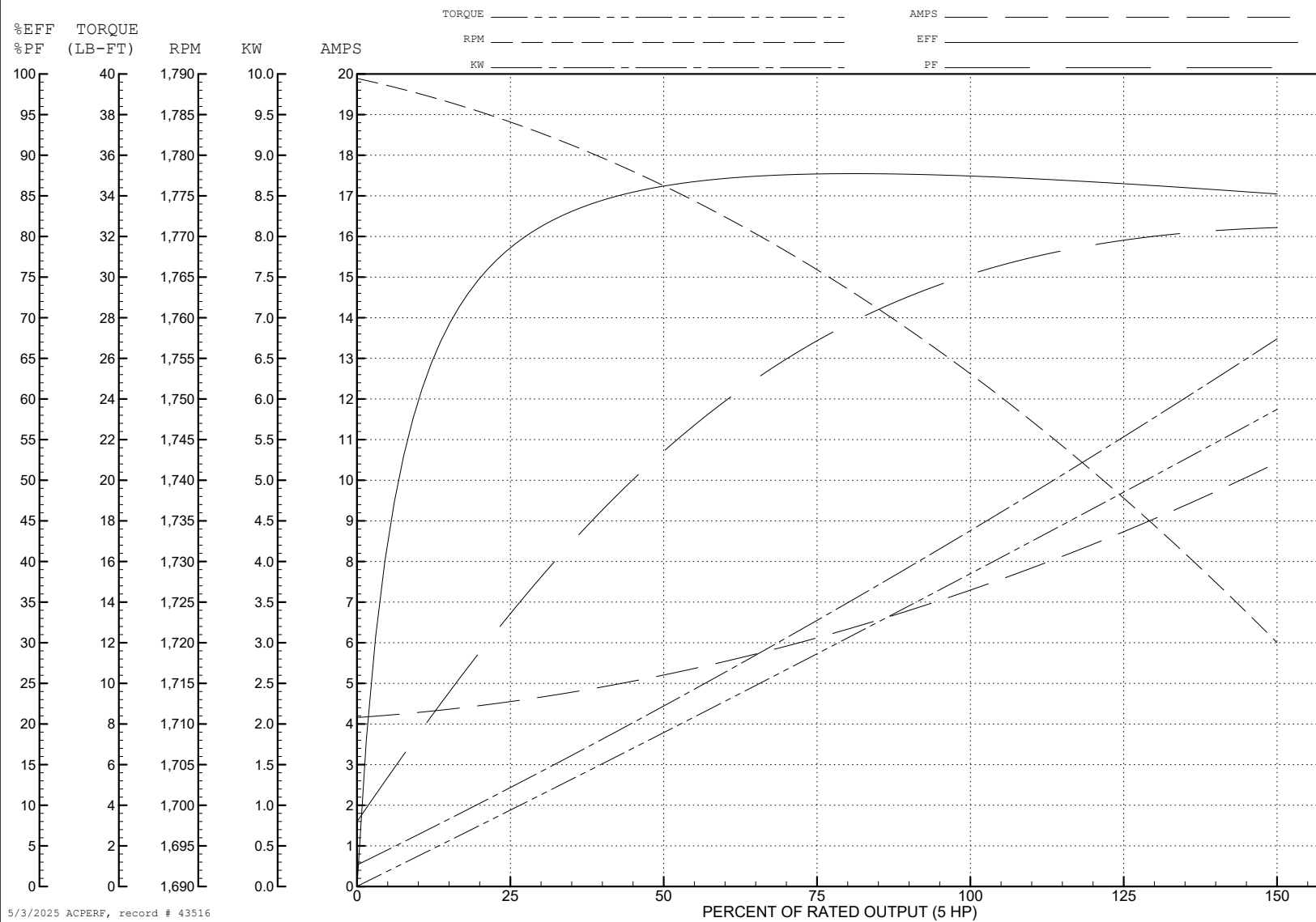
ABB Motors and Mechanical Inc.

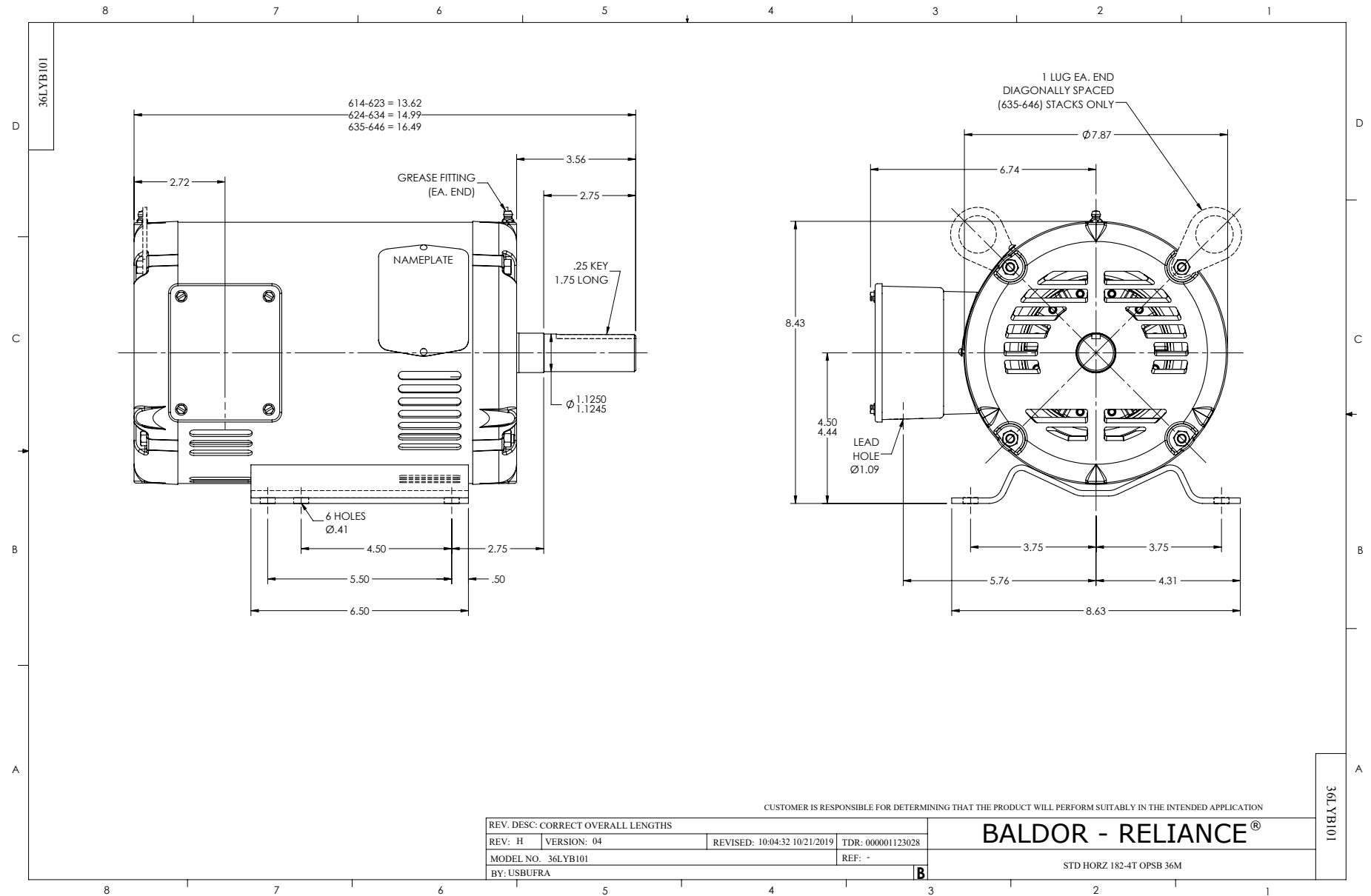
WINDING # 36WGS034

Typical performance - not guaranteed values.

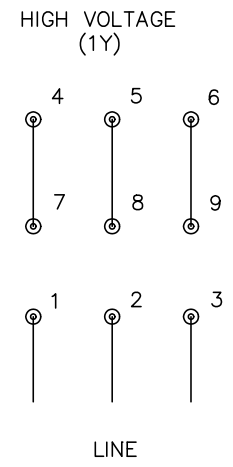
5 HP 3 PH 60 HZ 1750 RPM 460 V 3630M

TORQUES (LB-FT): PO=53.8 PU=29.2 LR=34 LRA=48





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