

**BALDOR® • RELIANCE** 

**Product Information Packet**

**CECP83583T-4**

**1.5HP,3450RPM,3PH,60HZ,143,TC,0524M,TEFC**

| Part Detail |                                                           |                |       |             |          |               |            |
|-------------|-----------------------------------------------------------|----------------|-------|-------------|----------|---------------|------------|
| Revision:   | AM                                                        | Status:        | PRD/A | Change #:   |          | Proprietary:  | No         |
| Type:       | AC                                                        | Prod. Type:    | 0524M | Elec. Spec: | 05WGW176 | CD Diagram:   | CD0006     |
| Enclosure:  | TEFC                                                      | Mfg Plant:     |       | Mech. Spec: | 05E943   | Layout:       | 05LYE943   |
| Frame:      | 143TC                                                     | Mounting:      | F1    | Poles:      | 02       | Created Date: | 11-22-2005 |
| Base:       | RG                                                        | Rotation:      | R     | Insulation: | F        | Eff. Date:    | 12-14-2016 |
| Leads:      | 3#18 15" LEAD LENGTH,0#0 Dbl Dip & Bake,0#0 Phase InsulaY |                |       |             |          | Replaced By:  |            |
| Literature: |                                                           | Elec. Diagram: |       |             |          |               |            |

## Nameplate NP3235E

|              |              |      |      |       |
|--------------|--------------|------|------|-------|
| CAT.NO.      | CECP83583T-4 |      |      |       |
| SPEC.        | 05E943W176   |      |      |       |
| HP           | 1.5          | TE   |      | IP 56 |
| VOLTS        | 460          |      |      |       |
| AMP          | 2            |      |      |       |
| RPM          | 3450         |      |      |       |
| FRAME        | 143TC        | HZ   | 60   | PH 3  |
| SER.F.       | 1.15         | CODE | M    | DES B |
| RATING       | 40C AMB-CONT |      |      | CL F  |
| SN           |              |      |      |       |
| DE           | 6205         | ODE  | 6205 |       |
| NEMA-NOM-EFF | 85.5         | PF   | 83   |       |
| G.MIN.EFF    | 82.5         | CC   | 010A |       |
| T. CODE      | T4           | T=   | 135  |       |

Nameplate NP3186E

|             |            |                         |                   |
|-------------|------------|-------------------------|-------------------|
| SPEC.       | 05E943W176 |                         |                   |
| D.E. BRG.   | 25BC02X30X |                         |                   |
| O.D.E. BRG. | 25BC02X30X |                         |                   |
| GREASE      | POLYREX EM |                         |                   |
| WEIGHT      | 71         | # OF ROTOR BARS         | 24                |
| RPM MAX     | 5400       | MAX. KVAR               | .25               |
| BLANK       |            |                         |                   |
| INV.TYPE    | PWM        |                         | # OF STATOR SLOTS |
| T=          | 135        |                         |                   |
| C HP FR     | 60         | C HP TO                 | 90                |
| CT HZ FROM  | 6          | CT HZ TO                | 60                |
| VT HZ FROM  | 3          | VT HZ TO                | 60                |
| HTR-VOLTS   | N/A        | HTR-AMPS                | N/A               |
| HTR-WATTS   |            | MAX. SPACE HEATER TEMP. | N/A               |

| Parts List   |                                          |          |
|--------------|------------------------------------------|----------|
| Part Number  | Description                              | Quantity |
| SA136059     | SA 05E943W176                            | 1.000 EA |
| RA125762     | RA 05E943W176                            | 1.000 EA |
| HW3201A05    | 3/8-16 EYEBOLT                           | 1.000 EA |
| 06CB1001A01G | CONDUIT BOX, MACH GRAY                   | 1.000 EA |
| RM1016       | LEAD SEPARATOR GASKET - 305/306 C.P.MOTO | 1.000 EA |
| 51XW2520A12  | SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75  | 2.000 EA |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01    | BRASS CUP WASHER, FOR #8 SCREW           | 1.000 EA |
| 10XN2520S06  | 1/4 20X3/8 HX HD CAP S.S.                | 2.000 EA |
| WD1000B16    | T&B CX70TN TERMINAL                      | 2.000 EA |
| 51XN1032A20  | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| 05EP1100A02G | FREP TEFC 205,GRSR,RLF,DRAIN FITTING,INP | 1.000 EA |
| HW4601B22    | INPRO SEAL, 205 BRG, MINI66              | 1.000 EA |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HA4051A00    | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A17    | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4010A01    | DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .076 | 1.000 EA |
| HW5100A05    | WVY WSHR F/205 & 304 BRGS                | 1.000 EA |
| 35EP1329A32G | EP ENCL 205 BRG,GRSR,RLF,NPT DRAIN,INPRO | 1.000 EA |
| HW4601B22    | INPRO SEAL, 205 BRG, MINI66              | 1.000 EA |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 EA |
| HA4051A00    | PLASTIC CAP FOR GREASE FITTING           | 1.000 EA |
| HW4500A17    | 317400 ALEMITE GREASE RELIEF             | 1.000 EA |
| HA4010A01    | DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .076 | 1.000 EA |

| Parts List (continued) |                                          |          |
|------------------------|------------------------------------------|----------|
| Part Number            | Description                              | Quantity |
| 51XN1032A20            | 10-32 X 1 1/4 HX WS SL SR                | 2.000 EA |
| HA3100A28              | THRUBOLT 10-32 X 8.187                   | 4.000 EA |
| 35FH1000A19G           | 35FH1000A19 W/GRAY FLUIDIZ               | 1.000 EA |
| 10XN2520A16            | 1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED | 3.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 3.000 EA |
| WD4100A03              | DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC | 1.000 EA |
| 06CB1503A01G           | LIPPED CONDUIT BOX LID, MACH GRAY EPOXY  | 1.000 EA |
| 06GS1009               | GASKET, KOBX LID, 1/8" THICK BLACK NEOPR | 1.000 EA |
| 10XN2520A12            | O1/4-20X 3/4 HEX HEAD CAP                | 2.000 EA |
| HW1001A25              | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 EA |
| HW2501D13              | KEY, 3/16 SQ X 1.375                     | 1.000 EA |
| HA7000A01              | KEY RETAINER 7/8" DIA SHAFT              | 1.000 EA |
| MJ5004A59              | ADHESIVE LOCTITE #401 SURFACE INSENSITIV | 0.010 EA |
| MJ5001A27              | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 QT |
| MJ1000A73              | INPRO P-80 ASSEMBLY LUB./ 1 QT. CONTAIN  | 0.001 QT |
| 85XU0407S04            | 4X1/4 U DRIVE PIN STAINLESS              | 4.000 EA |
| LB1115N                | LABEL,LIFTING DEVICE (ON ROLLS)          | 1.000 EA |
| LT0019A00              | MOTOR NO-LOAD PERFORMANCE DATA SHEET     | 1.000 EA |
| WD1000D21              | TRM,T&B #B71M,RING,18-14,.25,NON-INSL    | 3.000 EA |
| MJ1000A02              | GREASE, POLYREX EM EXXON (USe 4824-15A)  | 0.050 LB |
| 34FN3002B01            | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/  | 1.000 EA |
| 51XB1214A16            | 12-14X1.00 HXWSSLD SERTYB                | 1.000 EA |
| MG1025N19              | WILKOFASST, 778.50, RELIANCE BLUE-GREEN  | 0.022 GA |
| LB1119N                | WARNING LABEL                            | 1.000 EA |

|          |                                          |          |
|----------|------------------------------------------|----------|
| LC0006   | CONNECTION LABEL                         | 1.000 EA |
| LB1449   | DIV-2/NEC WARNING LABEL                  | 1.000 EA |
| NP3235E  | SS IEEE841 DIV-2 UL CSA-C US EEV PREM    | 1.000 EA |
| NP3186E  | SS IEEE841 INV AUX DATA INFORMATION      | 1.000 EA |
| 36PA1000 | PKG GRP, PRINT PK1016A06                 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |

**AC Induction Motor Performance Data**

Record # 47131 - Typical performance - not guaranteed values

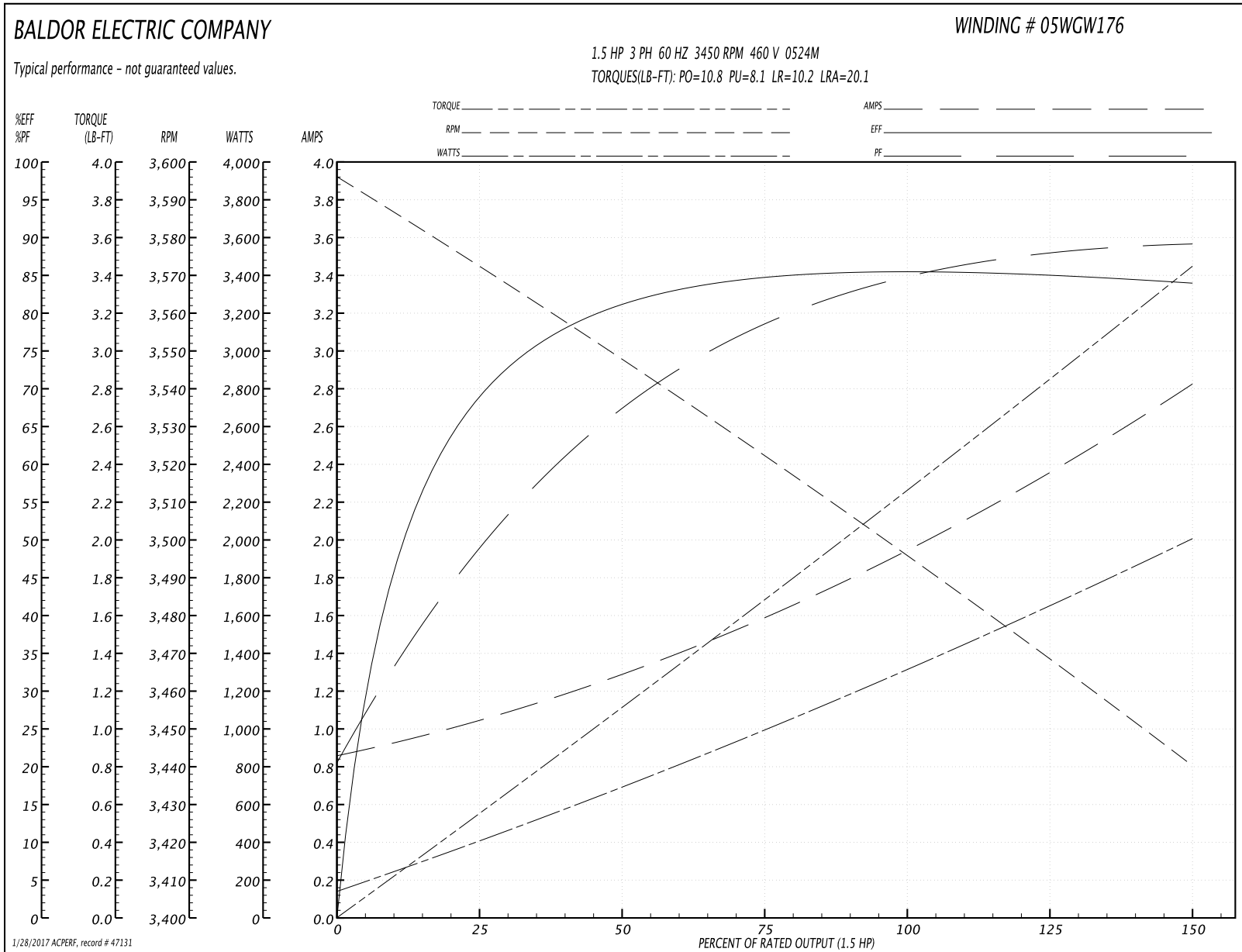
|                               |                    |                        |
|-------------------------------|--------------------|------------------------|
| <b>Winding:</b> 05WGW176-R028 | <b>Type:</b> 0524M | <b>Enclosure:</b> TEFC |
|-------------------------------|--------------------|------------------------|

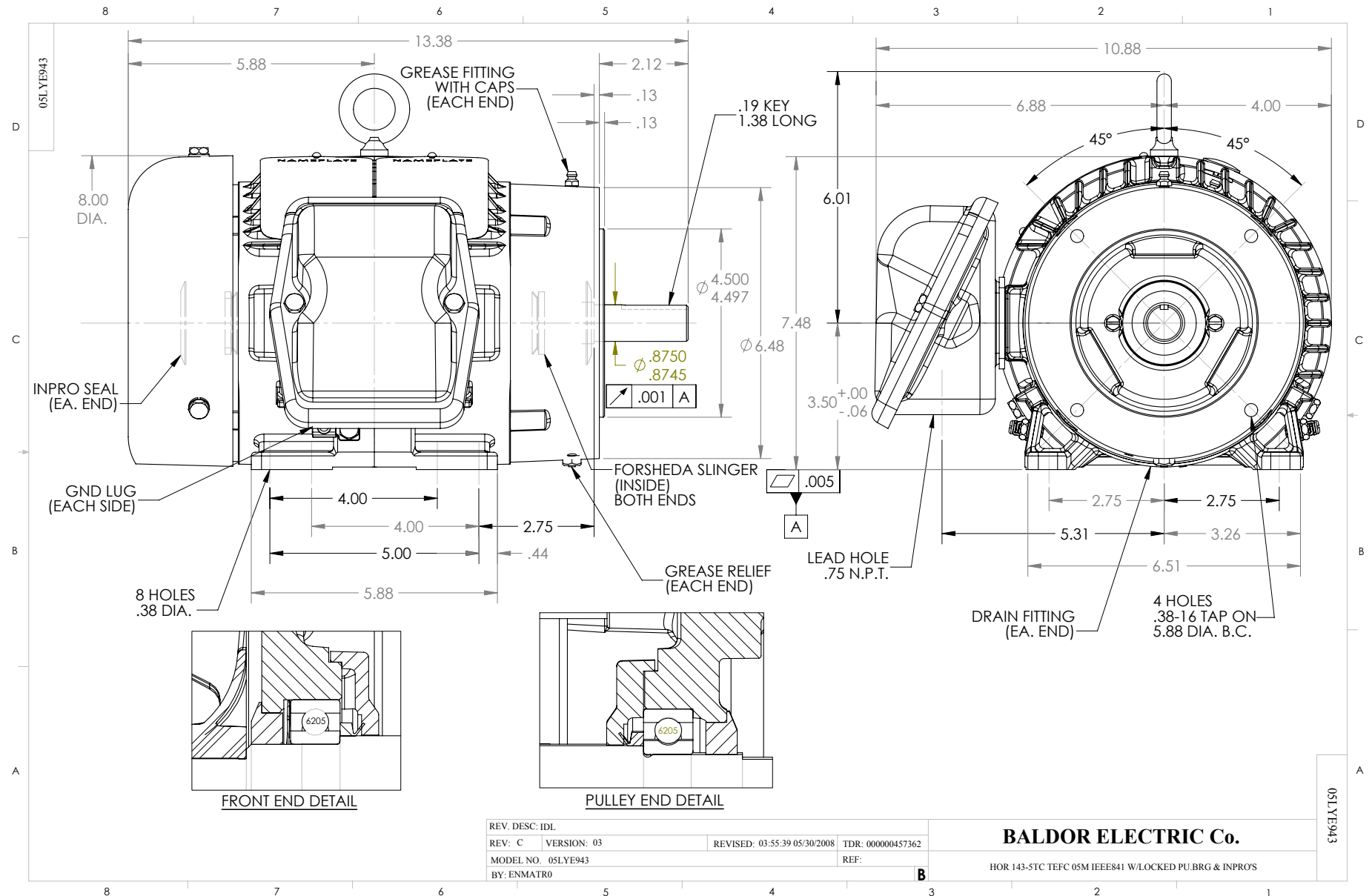
| Nameplate Data        |              |              |    | 460 V, 60 Hz:<br>Single Voltage Motor |                |
|-----------------------|--------------|--------------|----|---------------------------------------|----------------|
| Rated Output (HP)     | 1.5          |              |    | Full Load Torque                      | 2.3 LB-FT      |
| Volts                 | 460          |              |    | Start Configuration                   | direct on line |
| Full Load Amps        | 2            |              |    | Breakdown Torque                      | 10.8 LB-FT     |
| R.P.M.                | 3450         |              |    | Pull-up Torque                        | 8.1 LB-FT      |
| Hz                    | 60           | Phase        | 3  | Locked-rotor Torque                   | 10.2 LB-FT     |
| NEMA Design Code      | B            | KVA Code     | M  | Starting Current                      | 20.1 A         |
| Service Factor (S.F.) | 1.15         |              |    | No-load Current                       | 0.88 A         |
| NEMA Nom. Eff.        | 85.5         | Power Factor | 83 | Line-line Res. @ 25°C                 | 7.45 Ω         |
| Rating - Duty         | 40C AMB-CONT |              |    | Temp. Rise @ Rated Load               | 32°C           |
| S.F. Amps             |              |              |    | Temp. Rise @ S.F. Load                | 37°C           |

**Load Characteristics 460 V, 60 Hz, 1.5 HP**

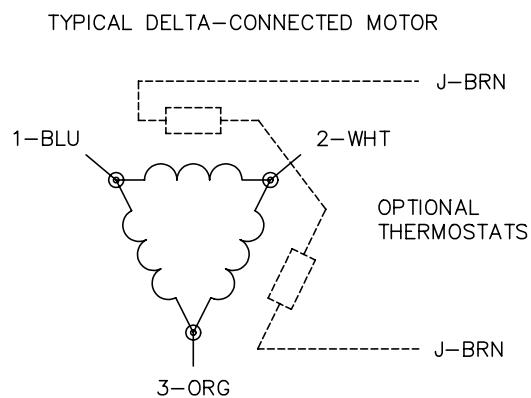
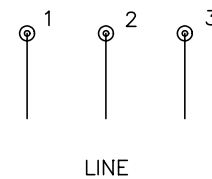
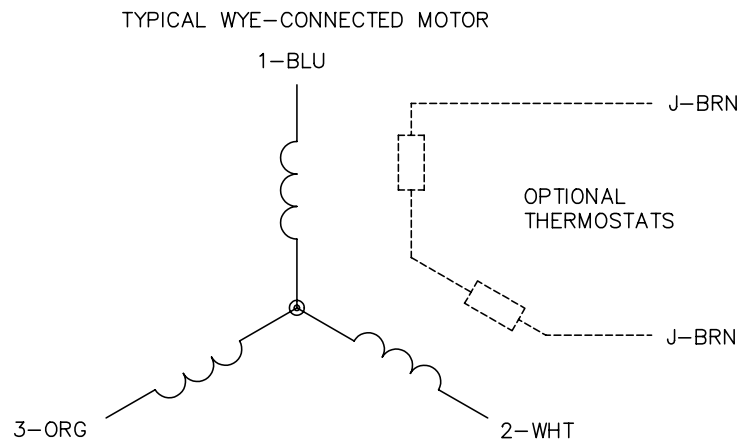
|                 |      |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
| Power Factor    | 49   | 68   | 78   | 83   | 87   | 88   | 85   |
| Efficiency      | 71.9 | 81.3 | 84.3 | 85.5 | 85   | 84   | 85.2 |
| Speed           | 3569 | 3545 | 3521 | 3496 | 3468 | 3439 | 3479 |
| Line amperes    | 1.03 | 1.29 | 1.6  | 2    | 2.4  | 2.8  | 2.25 |

## Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D BY: JLP REVISED: 01/21/99 4:02 TDR: 0171435

9000D

FILE: AAA00005141

MDL: -

MTL: -

**BALDOR ELECTRIC Co.**

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006