

# ABB BALDOR RELIANCE III

---

## Customer information packet

### CL1410TM

5HP, 1725RPM, 1PH, 60HZ, 184TC, 3640LC, OPEN

Class - None

Division - Not Applicable

**Specifications**

|                                |                                          |
|--------------------------------|------------------------------------------|
| Enclosure                      | OPEN                                     |
| Frame                          | 184TC                                    |
| Frame Material                 | Steel                                    |
| Frequency                      | 60.00 Hz                                 |
| Haz Area Class and Group       | None                                     |
| Haz Area Division              | Not Applicable                           |
| Motor Letter Type              | Cap Start, Cap Run                       |
| Output @ Frequency             | 5.000 HP @ 60 HZ                         |
| Phase                          | 1                                        |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                         |
| Voltage @ Frequency            | 230.0 V @ 60 HZ                          |
| Agency Approvals               | C UR US                                  |
| 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              | 23.000 A @ 230.0 V<br>25.000 A @ 208.0 V |
| Design Code                    | L                                        |
| Drip Cover                     | No Drip Cover                            |
| Duty Rating                    | CONT                                     |
| Efficiency @ 100% Load         | 82.5 %                                   |
| Electrically Isolated Bearing  | Not Electrically Isolated                |
| Feedback Device                | NO FEEDBACK                              |
| Front Face Code                | Standard                                 |
| Front Shaft Indicator          | None                                     |
| Heater Indicator               | No Heater                                |
| High Voltage Full Load Amps    | 23.0 a                                   |
| Insulation Class               | F                                        |
| Inverter Code                  | Not Inverter                             |

**Part Detail**

|              |                    |
|--------------|--------------------|
| Revision     | AK                 |
| Type         | AC                 |
| Mech. spec.  | 36F484             |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | 36WGW903           |
| Layout       | 36LYF484           |
| Eff. date    | 05-09-2024         |
| CD Diagram   | CD0002A04          |
| Poles        | 04                 |
| Leads        | 2#10 A PH,3#16 B&J |
| Proprietary  | False              |
| Created date | 01-01-0001         |

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>KVA Code</b>                      | <b>G</b>                       |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>         |
| <b>Locked Bearing Indicator</b>      | <b>Locked Bearing</b>          |
| <b>Motor Lead Exit</b>               | <b>Ko Box</b>                  |
| <b>Motor Lead Quantity/Wire Size</b> | <b>2 @ 10 AWG, A PH</b>        |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>            |
| <b>Motor Standards</b>               | <b>NEMA</b>                    |
| <b>Motor Type</b>                    | <b>3640LC</b>                  |
| <b>Mounting Arrangement</b>          | <b>F1</b>                      |
| <b>Number of Poles</b>               | <b>4</b>                       |
| <b>Overall Length</b>                | <b>16.50 IN</b>                |
| <b>Power Factor</b>                  | <b>87</b>                      |
| <b>Product Family</b>                | <b>General Purpose</b>         |
| <b>Pulley End Bearing Type</b>       | <b>Ball</b>                    |
| <b>Pulley Face Code</b>              | <b>C-Face</b>                  |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>                |
| <b>Rodent Screen</b>                 | <b>None</b>                    |
| <b>Service Factor</b>                | <b>1.15</b>                    |
| <b>Shaft Diameter</b>                | <b>1.125 IN</b>                |
| <b>Shaft Extension Location</b>      | <b>Pulley End</b>              |
| <b>Shaft Ground Indicator</b>        | <b>No Shaft Grounding</b>      |
| <b>Shaft Rotation</b>                | <b>Reversible</b>              |
| <b>Shaft Slinger Indicator</b>       | <b>No Slinger</b>              |
| <b>Speed</b>                         | <b>1725 rpm</b>                |
| <b>Speed Code</b>                    | <b>Single Speed</b>            |
| <b>Starting Method</b>               | <b>Direct on line</b>          |
| <b>Thermal Device - Bearing</b>      | <b>None</b>                    |
| <b>Thermal Device - Winding</b>      | <b>Do Not Use</b>              |
| <b>Vibration Sensor Indicator</b>    | <b>No Vibration Sensor</b>     |
| <b>Winding Thermal 1</b>             | <b>Manual Thermal Overload</b> |
| <b>Winding Thermal 1 Location</b>    | <b>KO</b>                      |
| <b>Winding Thermal 2</b>             | <b>None</b>                    |

**Nameplate**

| NP1257L      |              |  |      |      |    |     |   |    |   |  |  |
|--------------|--------------|--|------|------|----|-----|---|----|---|--|--|
| CAT.NO.      | CL1410TM     |  |      |      |    |     |   |    |   |  |  |
| SPEC.        | 36F484W903   |  |      |      |    |     |   |    |   |  |  |
| HP           | 5            |  |      |      |    |     |   |    |   |  |  |
| VOLTS        | 230          |  |      |      |    |     |   |    |   |  |  |
| AMP          | 23           |  |      |      |    |     |   |    |   |  |  |
| RPM          | 1725         |  |      |      |    |     |   |    |   |  |  |
| FRAME        | 184TC        |  |      | HZ   | 60 |     |   | PH | 1 |  |  |
| SER.F.       | 1.15         |  | CODE | G    |    | DES | L | CL | F |  |  |
| NEMA-NOM-EFF | 82.5         |  | PF   | 87   |    |     |   |    |   |  |  |
| RATING       | 40C AMB-CONT |  |      |      |    |     |   |    |   |  |  |
| CC           |              |  |      |      |    |     |   |    |   |  |  |
| DE           | 6206         |  | ODE  | 6205 |    |     |   |    |   |  |  |
| ENCL         | OPEN         |  | SN   |      |    |     |   |    |   |  |  |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA035042    | SA 36F484W903                            | 1.000 ea |
| RA031069    | RA 36F484W903                            | 1.000 ea |
| TPBRT00DB   | THERMAL 1PH 1.25 MAN 120CWELDED          | 1.000 ea |
| TP5059      | GENERIC WELDED THERMAL, 7" LEAD KIT      | 1.000 ea |
| 36CB3004A02 | 36 CB 1.09 @ 6, 1.25 MTO @ 3             | 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 |
| HA6015A09   | THERMAL RETAINER PLATED                  | 1.000 ea |
| 51XB1214A10 | 12-14 X 5/8HX WS SL SR TYBX              | 2.000 ea |
| 36EP3204B00 | MASTER ODE,205 BRG,GRSR                  | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| SP1008A01   | BAFFLE, MODEL 36 & 37                    | 1.000 ea |
| 13XF0832A08 | 8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN | 2.000 ea |
| 10XN2520A12 | 1/4-20 X 3/4 HEX HEAD CAP                | 2.000 ea |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 36EP3403A03 | PU E.P., TC, OPEN, 206 BRG, LESS TIGHT S | 1.000 ea |
| HW4500A01   | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| 36AD2000    | AIR BAFFLE                               | 1.000 ea |
| 60XW0632A06 | 6-32 X 3/8 TORX HEAD SCREW TAPTITE II    | 4.000 ea |
| 10XN2520A28 | 1/4-20X 1 3/4 HEX HD                     | 4.000 ea |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 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 |
| MG1050G01   | CELEROL MEDIUM CHARCOAL METALLIC GRAY    | 0.022 ga |
| SP5172A05   | 37 TYPE LC TORQ STAT SW LEAD ASSEMBLY    | 1.000 ea |
| HA3101A28   | THRUBOLT 1/4-20 X 12.500 OHIO ROD        | 4.000 ea |
| 36CB5005A03 | CAPACITOR BOX KIT, 36CB3800Z, OC3040F18, | 1.000 ea |

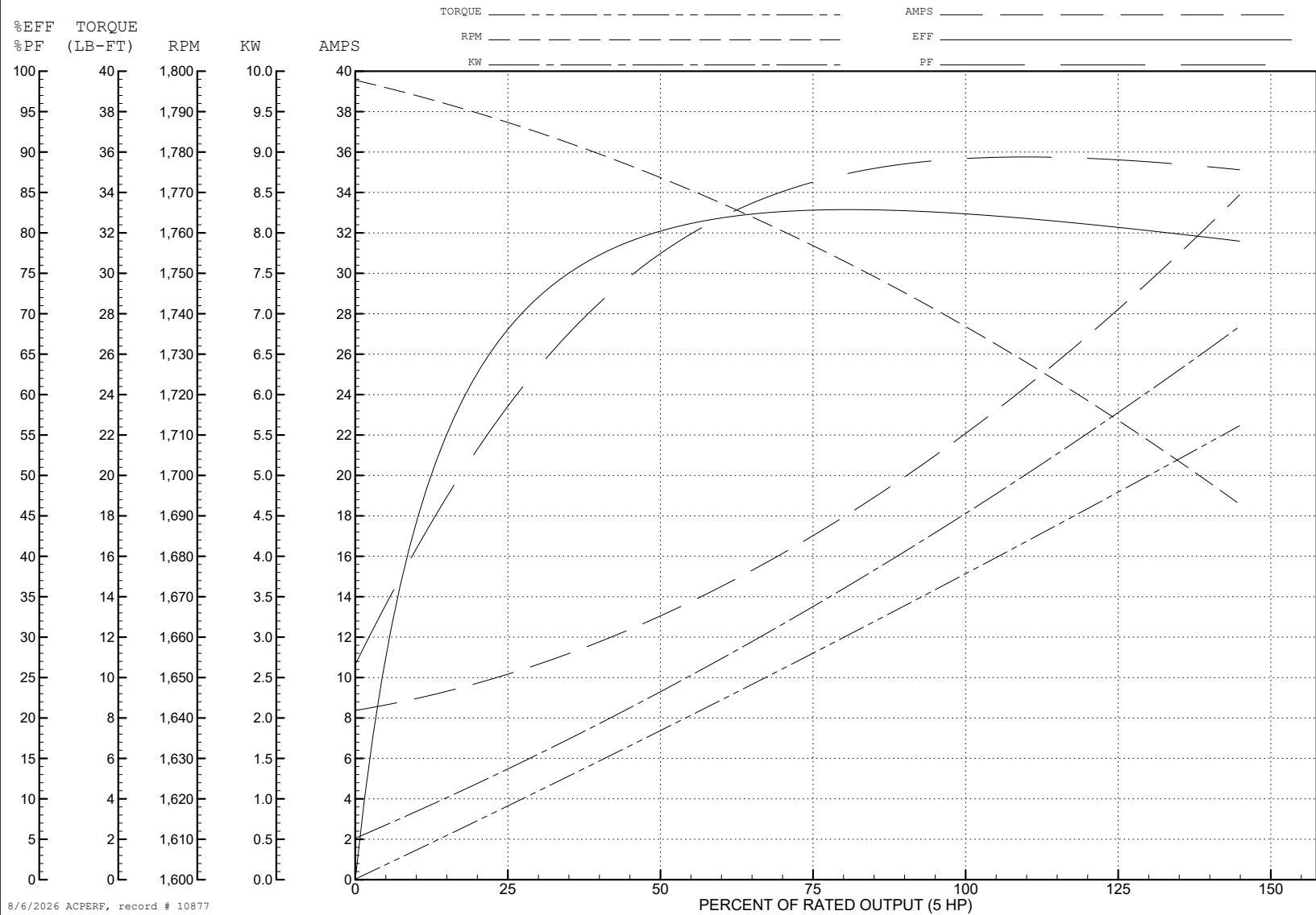
|            |                                          |          |
|------------|------------------------------------------|----------|
| LB1087     | LABEL,MANUAL RESET (ROLL LABEL)          | 1.000 ea |
| LC0002     | CONNECTION LABEL                         | 1.000 ea |
| NP1257L    | ALUM UL CC THERMAL REV MTG               | 1.000 ea |
| 36PA1001   | PKG GRP, PRINT PK1017A07                 | 1.000 ea |
| MN416A01   | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000011 | ZRTG PE ASSEMBLY                         | 1.000 ea |
| LB1624     | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

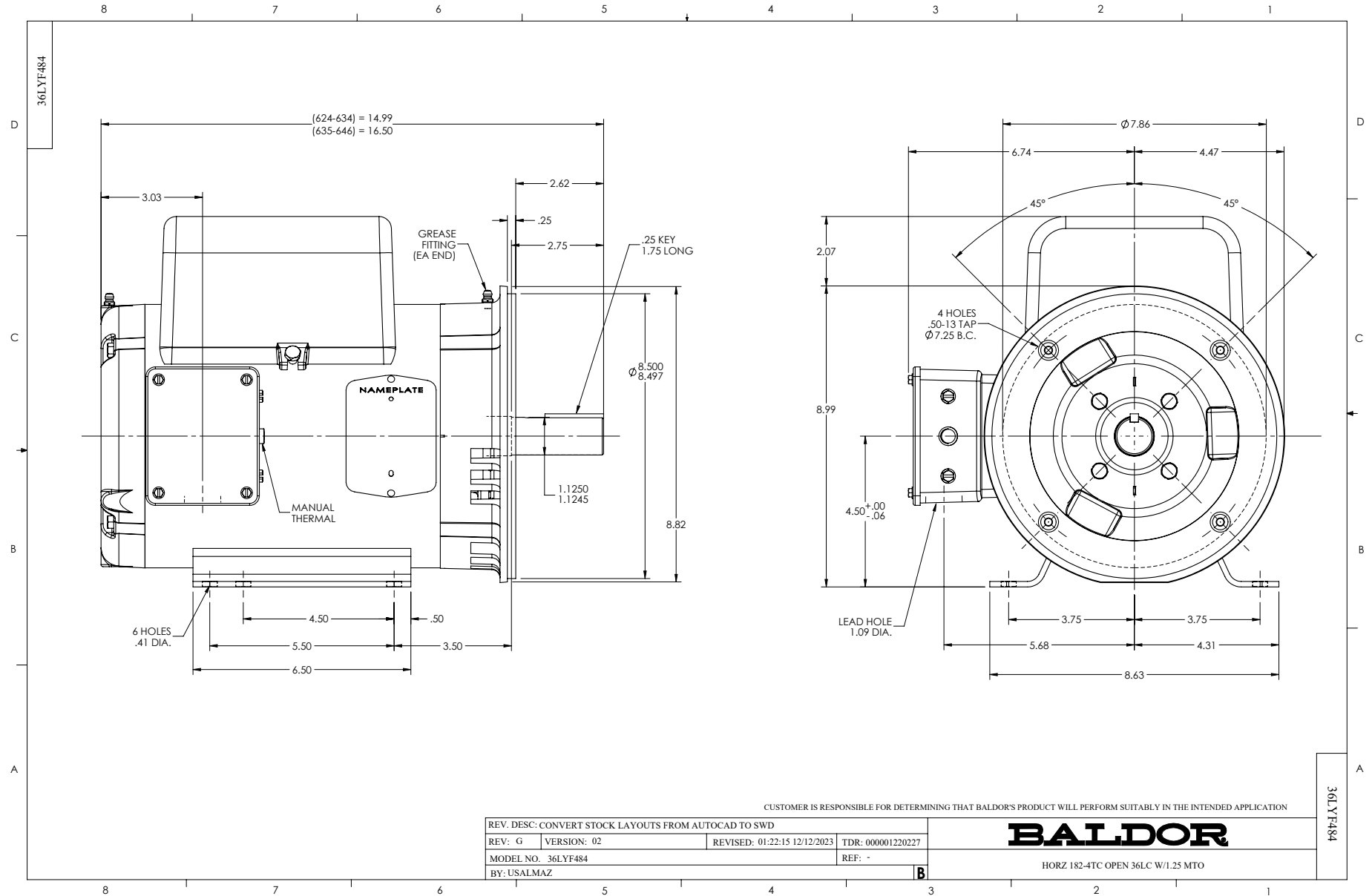
ABB Motors and Mechanical Inc.

WINDING # 36WG903

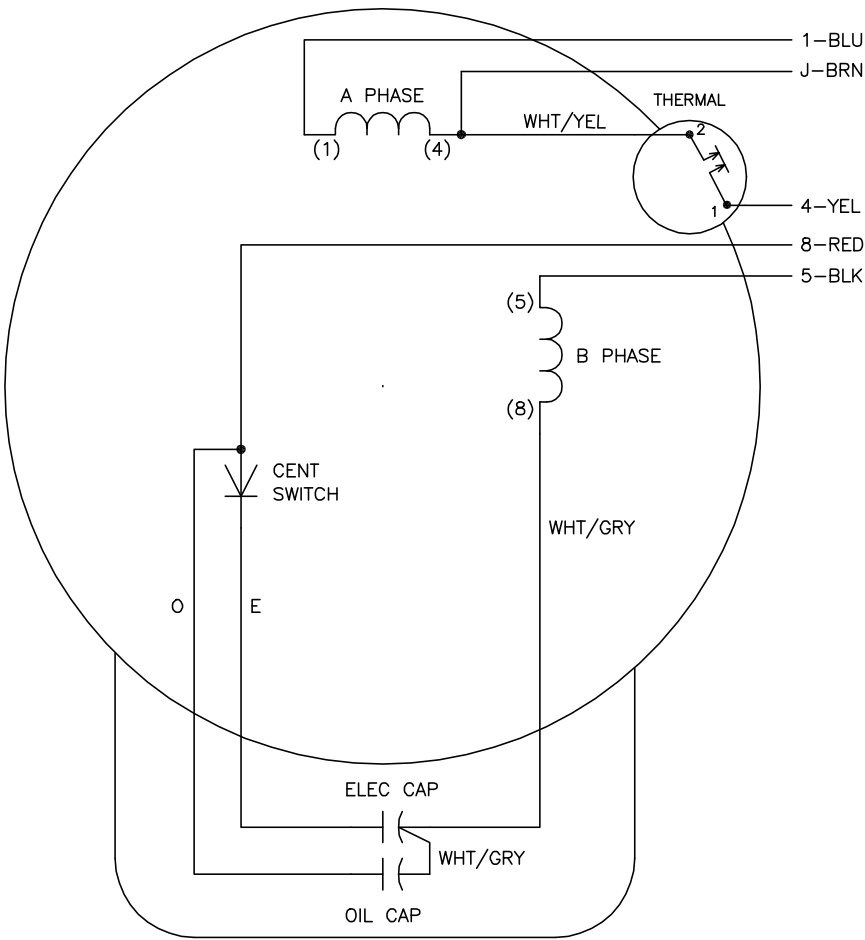
Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3640LC  
TORQUES (LB-FT): PO=34 PU=28 LR=41 LRA=140



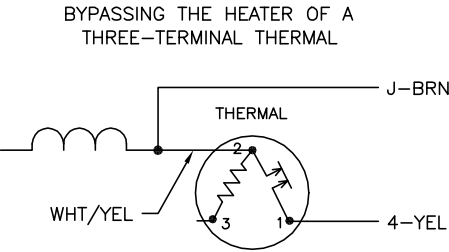


CD0002A04



|     | LINE A | LINE B | JOIN |
|-----|--------|--------|------|
| STD | 1,8    | 4      | J,5  |
| OPP | 1,5    | 4      | J,8  |

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
  2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
  3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.



|                |                      |                              |
|----------------|----------------------|------------------------------|
| REV. DESC: NEW | VERSION: 00          | TDR: 000000360649            |
| REV. LTR: -    | FILE: \AAA\00126\009 | REVISED: 17:08:44 04/15/2005 |
| CD0002A04      | MTL: -               | BY: ENJOEPO                  |

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, 2-TERMINAL THERMAL, 5 LEADS

CD0002A04