

# ABB BALDOR RELIANCE III

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## Customer information packet

### DRX18544T

5HP, 1750//1450RPM, 3PH, 60HZ, 184T, XPFC, F1

Class - CLI GP C,D

Division - Division I

**Specifications**

|                                       |                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------|
| <b>Enclosure</b>                      | XPFC                                                                               |
| <b>Frame</b>                          | 184T                                                                               |
| <b>Frame Material</b>                 | Iron                                                                               |
| <b>Frequency</b>                      | 60.00 Hz                                                                           |
| <b>Haz Area Class and Group</b>       | CLI GP C,D                                                                         |
| <b>Haz Area Division</b>              | Division I                                                                         |
| <b>Motor Letter Type</b>              | Three Phase                                                                        |
| <b>Output @ Frequency</b>             | 5.000 HP @ 60 HZ                                                                   |
| <b>Phase</b>                          | 3                                                                                  |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                                                   |
| <b>Voltage @ Frequency</b>            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                                                 |
| <b>Agency Approvals</b>               | CSA EEV<br>UL                                                                      |
| <b>Ambient Temperature</b>            | 40 °C                                                                              |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                                                   |
| <b>Auxiliary Box Lead Termination</b> | None                                                                               |
| <b>Base Indicator</b>                 | Rigid                                                                              |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                                            |
| <b>Blower</b>                         | None                                                                               |
| <b>Constant Torque Speed Range</b>    | 6                                                                                  |
| <b>Current @ Voltage</b>              | 6.600 A @ 460.0 V<br>5.100 A @ 380.0 V<br>13.200 A @ 230.0 V<br>10.200 A @ 190.0 V |
| <b>Design Code</b>                    | B                                                                                  |
| <b>Drip Cover</b>                     | No Drip Cover                                                                      |
| <b>Duty Rating</b>                    | CONT                                                                               |
| <b>Efficiency @ 100% Load</b>         | 89.5 %                                                                             |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                                          |
| <b>Feedback Device</b>                | NO FEEDBACK                                                                        |
| <b>Haz Area Temp Code</b>             | T3C                                                                                |

**Part Detail**

|                     |              |
|---------------------|--------------|
| <b>Revision</b>     | F            |
| <b>Type</b>         | AC           |
| <b>Mech. spec.</b>  |              |
| <b>Base</b>         |              |
| <b>Status</b>       | PRD/A        |
| <b>Elec. spec.</b>  | 06WGY545     |
| <b>Layout</b>       | 06LY-000-044 |
| <b>Eff. date</b>    | 07-15-2025   |
| <b>CD Diagram</b>   | CD0005       |
| <b>Poles</b>        | 04           |
| <b>Leads</b>        | 9#16         |
| <b>Proprietary</b>  | False        |
| <b>Created date</b> | 03-22-2019   |

|                             |                            |
|-----------------------------|----------------------------|
| Heater Indicator            | No Heater                  |
| High Voltage Full Load Amps | 5.1 a                      |
| Insulation Class            | F                          |
| Inverter Code               | Inverter Duty              |
| IP Rating                   | NONE                       |
| KVA Code                    | J                          |
| Lifting Lugs                | Standard Lifting Lugs      |
| Locked Bearing Indicator    | Locked Bearing             |
| Max Speed                   | 2700 rpm                   |
| Motor Lead Termination      | Flying Leads               |
| Motor Standards             | NEMA                       |
| Motor Type                  | 0642M                      |
| Mounting Arrangement        | F1                         |
| Number of Poles             | 4                          |
| Overall Length              | 17.56 IN                   |
| Power Factor                | 81                         |
| Product Family              | General Purpose            |
| Pulley Face Code            | Standard                   |
| Rodent Screen               | None                       |
| RoHS Status                 | ROHS NON-COMPLIANT         |
| Service Factor              | 1.00                       |
| Shaft Diameter              | 1.125 IN                   |
| Shaft Ground Indicator      | No Shaft Grounding         |
| Shaft Rotation              | Reversible                 |
| Speed                       | 1750 rpm                   |
| Speed Code                  | Single Speed               |
| Starting Method             | Direct on line             |
| Thermal Device - Bearing    | None                       |
| Thermal Device - Winding    | Normally Closed Thermostat |
| Vibration Sensor Indicator  | No Vibration Sensor        |
| Winding Thermal 1           | None                       |
| Winding Thermal 2           | None                       |

**Nameplate**

| NP1401XPSLEV |                    |        |   |              |   |          |                     |      |         |          |  |    |
|--------------|--------------------|--------|---|--------------|---|----------|---------------------|------|---------|----------|--|----|
| NO.          |                    |        |   |              |   |          | CC                  | 010A |         |          |  |    |
| S/N          |                    |        |   |              |   |          | TEMP CODE           |      | T3C     |          |  |    |
| SPEC.        | 06-0000-0054       |        |   |              |   |          | INV.TYPE            |      | PWM     |          |  |    |
| CAT.NO.      | DRX18544T          |        |   |              |   |          | C HP FR             | 60   | C HP TO | 90       |  |    |
| HP           | 5//3               |        |   |              |   |          | CT HZ FROM          |      | 6       | CT HZ TO |  | 60 |
| VOLTS        | 230/460//190/380   |        |   |              |   |          | VT HZ FROM          |      | 6       | VT HZ TO |  | 60 |
| AMPS         | 13.2/6.6//10.2/5.1 |        |   |              |   |          | MAG CUR             | 6/3  |         |          |  |    |
| RPM          | 1750//1450         |        |   |              |   |          | MX RPM              | 2700 |         |          |  |    |
| HZ           | 60                 | PH     | 3 | CL           | F | NOM.EFF. |                     | 89.5 |         |          |  |    |
| SER.F.       | 1.00               | DES    | B | SL HZ        |   | 1.7      | WK2                 | 0.39 |         |          |  |    |
| FRAME        | 184T               | RATING |   | 40C AMB-CONT |   |          |                     |      |         |          |  |    |
|              | 55C AMB @1.0SF     |        |   |              |   |          |                     |      |         |          |  |    |
|              | 1.15SF SINEWAVE    |        |   |              |   |          | NEMA MG-1 PT 5,IP55 |      |         |          |  |    |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA367984     | SA 06-0000-0054                          | 1.000 ea |
| RA357470     | RA 06-0000-0054                          | 1.000 ea |
| LB1624       | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0145B01    | CONNECTION LABEL                         | 1.000 ea |
| NP1401XPSLEV | SS XP INV UL CSA-EEV CC CL-I GP-C&D      | 1.000 ea |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 4.000 ea |
| MN416A01     | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| LB1081F      | ALUM XP CAUTION LABEL (FS PLANT ONLY-    | 1.000 ea |
| HW3201A05    | 3/8-16 EYEBOLT                           | 1.000 ea |
| 06FH1003A06  | FH, XP W/GRSR                            | 1.000 ea |
| 51XN1032A14  | 10-32 X 0.875 HX WS SL SR                | 4.000 ea |
| 34FN3002A02  | EXTERNAL FAN, PLASTIC, .905/.907 HUB W/  | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 06EP1709A08  | FRONT XPFC 205 BRG GRP C W/ DRAIN (HW450 | 1.000 ea |
| 10XN3118K20  | 5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED  | 4.000 ea |
| HW1001A31    | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 ea |
| HW5100A05    | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW4500A19    | 1/4-28X1/4 SLOTTED PLUG F/S              | 1.000 ea |
| HW4506A02    | BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI | 1.000 ea |
| HW3022E05    | .125 DIA X .500 ROLLED SPRING PIN        | 1.000 ea |
| 36EP1718A16  | PULLEY 206 BRG GROUP C W/GRSR, DRAIN & S | 1.000 ea |
| HW1001A31    | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 ea |
| 10XN3118K20  | 5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED  | 4.000 ea |
| HA2065A01    | ALUM SLINGER 206 BRGS DRILL RIG MOTOR    | 1.000 ea |
| 80XN1032J07  | 10-32 X 7/16 SET SCREW, HEX SOC, CUP PT  | 2.000 ea |
| HW4500A01    | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HW4500A19    | 1/4-28X1/4 SLOTTED PLUG F/S              | 1.000 ea |
| HW4506A02    | BREATHER/DRAIN-EXP PROOF-.125-27 NPTF AI | 1.000 ea |
| HW3022E05    | .125 DIA X .500 ROLLED SPRING PIN        | 1.000 ea |

|             |                                          |          |
|-------------|------------------------------------------|----------|
| 07CB1000A02 | CONDUIT BOX, MODEL 306,EXP. PROOF        | 1.000 ea |
| 10XN2520A14 | 1/4 20X7/8 HX HD CAP                     | 4.000 ea |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| WD1000B17   | T&B CX35TN OR L35P TERMINAL LUG          | 1.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 07CB1502A01 | CONDUIT BOX LID MACH (DUCTILE IRON)      | 1.000 ea |
| 10XN2520K16 | 1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P   | 4.000 ea |
| HW1001A25   | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| MG1500Y02   | WILKOPON PRIMER YELLOW                   | 0.001 ga |
| MG1025G29   | WILKOFAS, 789.229, DARK CHARCOAL GRAY    | 0.022 ga |
| 37PA1074    | PALLET PACK GRP, PRINT BOX PK1026A06     | 1.000 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 |

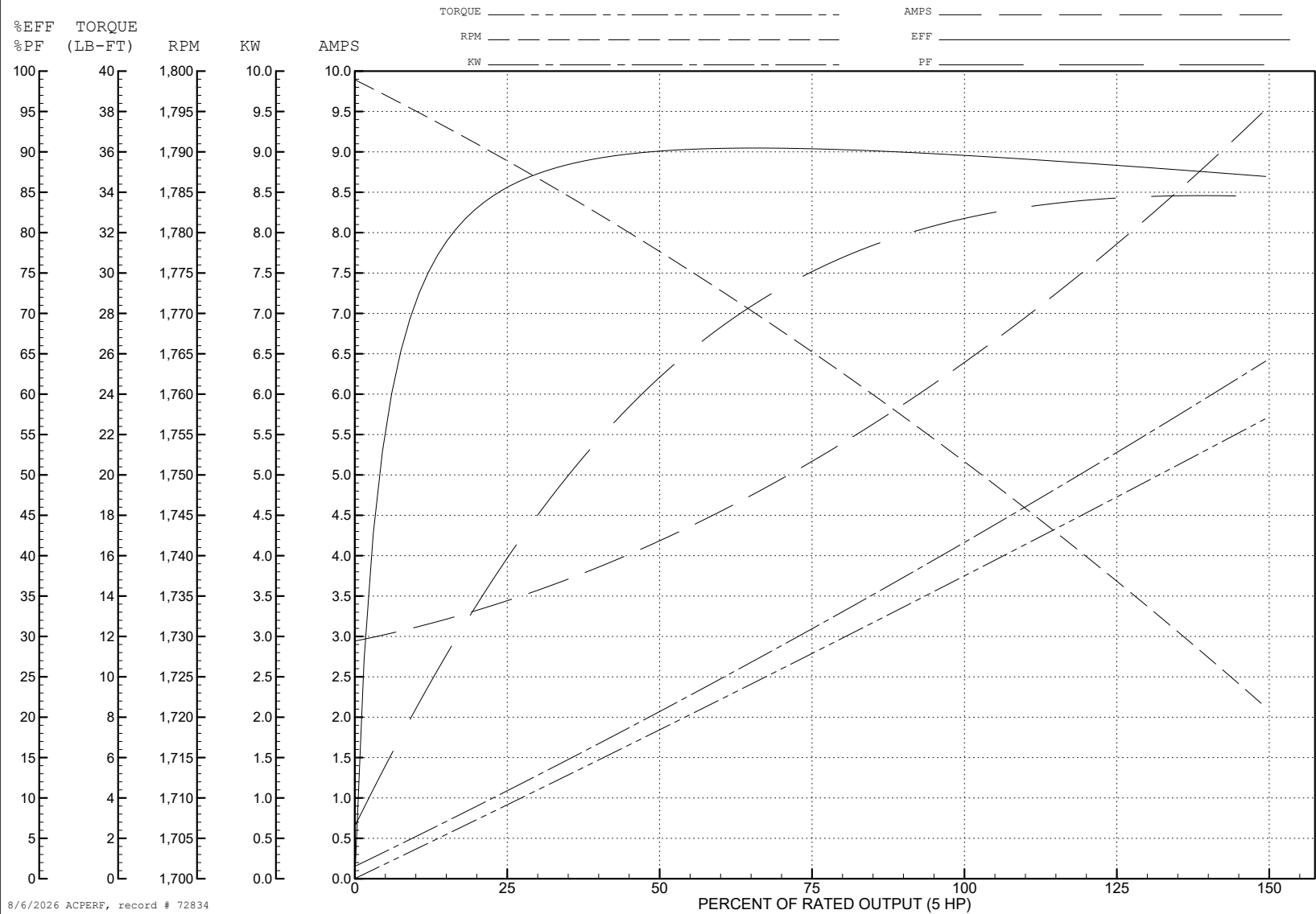
ABB Motors and Mechanical Inc.

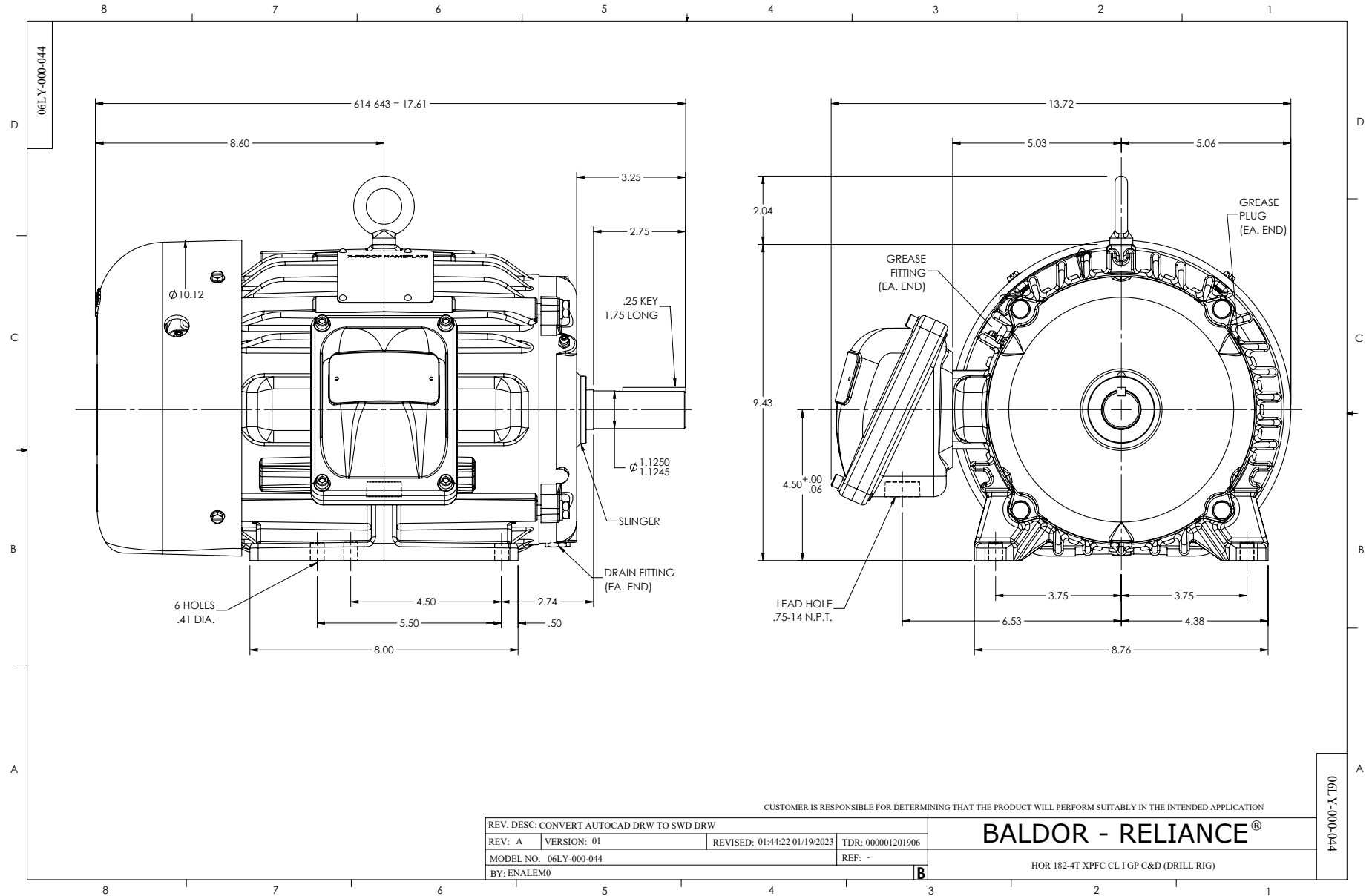
WINDING # 06WGY545

Typical performance - not guaranteed values.

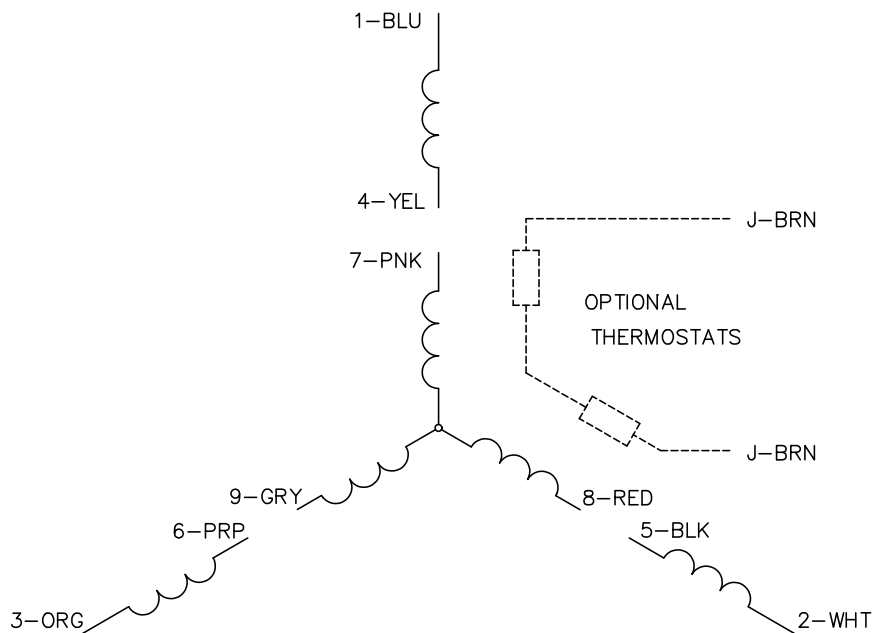
5 HP 3 PH 60 HZ 1752 RPM 460 V 0642M

TORQUES (LB-FT): PO=53.9 PU=22.4 LR=31.8 LRA=46.6

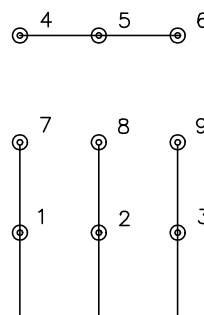




CD0005

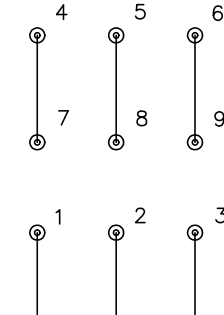


LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

**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