

# ABB BALDOR RELIANCE III

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## Customer information packet

### L3514TM

1.5HP, 1725RPM, 1PH, 60HZ, 145T, 3532LC, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Enclosure                      | TEFC                                                         |
| Frame                          | 145T                                                         |
| 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             | 1.500 HP @ 60 HZ                                             |
| Phase                          | 1                                                            |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                             |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>208.0 V @ 60 HZ<br>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              | 12.200 A @ 115.0 V<br>5.500 A @ 230.0 V<br>6.200 A @ 208.0 V |
| Design Code                    | L                                                            |
| Drip Cover                     | No Drip Cover                                                |
| Duty Rating                    | CONT                                                         |
| Efficiency @ 100% Load         | 80.0 %                                                       |
| Electrically Isolated Bearing  | Not Electrically Isolated                                    |
| Feedback Device                | NO FEEDBACK                                                  |
| Front Shaft Indicator          | None                                                         |
| Heater Indicator               | No Heater                                                    |
| High Voltage Full Load Amps    | 5.5 a                                                        |

**Part Detail**

|              |                |
|--------------|----------------|
| Revision     | D              |
| Type         | AC             |
| Mech. spec.  | 35HH612        |
| Base         |                |
| Status       | PRD/A          |
| Elec. spec.  | 35WGG398       |
| Layout       | 35LYHH612      |
| Eff. date    | 06-19-2025     |
| CD Diagram   | CD0016A02      |
| Poles        | 04             |
| Leads        | 7#18,1#16 #4TH |
| Proprietary  | False          |
| Created date | 02-23-2023     |

|                                      |                         |
|--------------------------------------|-------------------------|
| <b>Insulation Class</b>              | F                       |
| <b>Inverter Code</b>                 | Not Inverter            |
| <b>KVA Code</b>                      | H                       |
| <b>Lifting Lugs</b>                  | No Lifting Lugs         |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing       |
| <b>Motor Lead Quantity/Wire Size</b> | 7 @ 18 AWG              |
| <b>Motor Lead Termination</b>        | Flying Leads            |
| <b>Motor Standards</b>               | NEMA                    |
| <b>Motor Type</b>                    | 3532LC                  |
| <b>Mounting Arrangement</b>          | F1                      |
| <b>Number of Poles</b>               | 4                       |
| <b>Overall Length</b>                | 14.16 IN                |
| <b>Power Factor</b>                  | 90                      |
| <b>Product Family</b>                | General Purpose         |
| <b>Pulley End Bearing Type</b>       | Ball                    |
| <b>Pulley Face Code</b>              | Standard                |
| <b>Pulley Shaft Indicator</b>        | Standard                |
| <b>Rodent Screen</b>                 | None                    |
| <b>RoHS Status</b>                   | ROHS COMPLIANT          |
| <b>Service Factor</b>                | 1.00                    |
| <b>Shaft Diameter</b>                | 0.875 IN                |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding      |
| <b>Shaft Rotation</b>                | Reversible              |
| <b>Shaft Slinger Indicator</b>       | No Slinger              |
| <b>Speed</b>                         | 1725 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>             | Manual Thermal Overload |
| <b>Winding Thermal 1 Location</b>    | SB                      |
| <b>Winding Thermal 2</b>             | None                    |

**Nameplate**

| NP1257L      |              |      |      |     |    |    |   |    |   |  |  |
|--------------|--------------|------|------|-----|----|----|---|----|---|--|--|
| CAT.NO.      | L3514TM      |      |      |     |    |    |   |    |   |  |  |
| SPEC.        | 35HH612G398  |      |      |     |    |    |   |    |   |  |  |
| HP           | 1.5          |      |      |     |    |    |   |    |   |  |  |
| VOLTS        | 115/208-230  |      |      |     |    |    |   |    |   |  |  |
| AMP          | 12.2/6.2-5.5 |      |      |     |    |    |   |    |   |  |  |
| RPM          | 1725         |      |      |     |    |    |   |    |   |  |  |
| FRAME        | 145T         |      |      | HZ  | 60 |    |   | PH | 1 |  |  |
| SER.F.       | 1.00         | CODE | H    | DES | L  | CL | F |    |   |  |  |
| NEMA-NOM-EFF | 80           | PF   | 90   |     |    |    |   |    |   |  |  |
| RATING       | 40C AMB-CONT |      |      |     |    |    |   |    |   |  |  |
| CC           |              |      |      |     |    |    |   |    |   |  |  |
| DE           | 6205         | ODE  | 6203 |     |    |    |   |    |   |  |  |
| ENCL         | TEFC         | SN   |      |     |    |    |   |    |   |  |  |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA414864      | SA 35HH612G398                           | 1.000 ea |
| RA406633      | RA 35HH612G398                           | 1.000 ea |
| OC3025F11     | CYL OIL CAP 25MFD/370V                   | 1.000 ea |
| EC1540A06SP   | ELEC CAP, 540-648 MFD, 125V, 2.06D X 4.  | 1.000 ea |
| WD3006A01     | RSS-2-103JT 2W 10K RES. METAL OXIDE 5%   | 1.000 ea |
| NS2512A01     | INSULATOR, CONDUIT BOX X                 | 1.000 ea |
| 35CB3009      | 35 CB W/1.09 DIA. LEAD HOLE @ 6:         | 1.000 ea |
| 36GS1000SP    | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 ea |
| 51XB1016A07   | 10-16 X 7/16 HXWSSLD SERTYB              | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 35EP3122A00   | MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 2.000 ea |
| 35CB3801      | CAPACITOR COVER, CAST                    | 1.000 ea |
| 34GS3002      | GASKET, CAPACITOR BOX                    | 1.000 ea |
| HA7010        | CAPACITOR RETENTION CLAMP                | 1.000 ea |
| NS2501A02     | INSULATOR, CAPACITOR BOX                 | 1.000 ea |
| 51XB1016A08   | 10-16X 1/2HXWSSLD SERTYB                 | 2.000 ea |
| HW5100A03     | WAVY WASHER (W1543-017)                  | 1.000 ea |
| 35EP3123F00   | MASTER DE,205 BRG,.998SH,#26 DRN,GRSR    | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| XY1032A02     | 10-32 HEX NUT DIRECTIONAL SERRATION      | 4.000 ea |
| 51XB1214A16   | 12-14X1.00 HXWSSLD SERTYB                | 1.000 ea |
| 35FH4005A84SP | IEC FH W/GRSR, NO DIMPLES PRIMED         | 1.000 ea |
| 51XW1032A06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 35CB4521GX    | CONDUIT BOX LID KIT **ORDER INDIV PARTS  | 1.000 ea |
| 51XW0832A07   | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HW2501D13     | KEY, 3/16 SQ X 1.375                     | 1.000 ea |
| HA7000A01     | KEY RETAINER 7/8" DIA SHAFT              | 1.000 ea |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1087        | LABEL,MANUAL RESET (ROLL LABEL)          | 1.000 ea |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 35FN3002A05SP | EXFN, PLASTIC, 6.376 OD, .638 ID         | 1.000 ea |
| MG1050G01     | CELEROL MEDIUM CHARCOAL METALLIC GRAY    | 0.017 ga |
| WD1000A15     | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 4.000 ea |
| SP5181A03     | MODEL 35 LC TORQ STAT SWITCH LEAD ASSY   | 1.000 ea |
| 34GS5003      | FOAM SLEEVE, ID = 2 1/16" X 3 3/8"       | 1.000 ea |
| HA3100A22     | THRUBOLT 10-32 X 10.125                  | 4.000 ea |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0016        | CONNECTION LABEL                         | 1.000 ea |
| NP1257L       | ALUM UL CC THERMAL REV MTG               | 1.000 ea |
| 36PA1000      | PKG GRP, PRINT PK1016A08                 | 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-0000001    | ZRTG PE ASSEMBLY                         | 1.000 ea |

**Accessories**

| Part number   | Description  | Multiplier |
|---------------|--------------|------------|
| 35-8762       | C FACE KIT   | A8         |
| 35EP1506A01SP | D-FLANGE KIT | A8         |

**AC Induction Motor Performance Data**

Record # 89151

Typical performance - not guaranteed values

| Winding: 35WGG398-R001 |          |                 | Type: 3532LC                             |  | Enclosure: TEFC             |  |
|------------------------|----------|-----------------|------------------------------------------|--|-----------------------------|--|
| Nameplate Data         |          |                 | 230 V, 60 Hz:<br>High Voltage Connection |  |                             |  |
| Rated Output (HP)      |          | 1.5             | Full Load Torque                         |  | 4.56 LB-FT                  |  |
| Volts                  |          | 115/208-230     | Start Configuration                      |  | direct on line              |  |
| Full Load Amps         |          | 13.4/6.8-6.7    | Breakdown Torque                         |  | 9.9 LB-FT                   |  |
| R.P.M.                 |          | 1725            | Pull-up Torque                           |  | 8.06 LB-FT                  |  |
| Hz                     | 60 Phase | 1               | Locked-rotor Torque                      |  | 12.98 LB-FT                 |  |
| NEMA Design Code       |          | L KVA Code      | Starting Current                         |  | 43.97 A                     |  |
| Service Factor (S.F.)  |          | 1               | No-load Current                          |  | 0.877 A                     |  |
| NEMA Nom. Eff.         |          | 80 Power Factor | Line-line Res. @ 25°C                    |  | 0.517 Ω A Ph<br>1.32 Ω B Ph |  |
| Rating - Duty          |          | 40C AMB-CONT    | Temp. Rise @ Rated Load                  |  | 67°C                        |  |
|                        |          |                 | Locked-rotor Power Factor                |  | 91.1                        |  |
|                        |          |                 | Rotor inertia                            |  | 0.232 lb-ft²                |  |

**Load Characteristics 230 V, 60 Hz, 1.5 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150   |
|-----------------|------|------|------|------|------|-------|
| Power Factor    | 95   | 98   | 98   | 98   | 97   | 96    |
| Efficiency      | 68.1 | 80.4 | 82.5 | 81.1 | 76.9 | 69.8  |
| Speed           | 1782 | 1765 | 1746 | 1723 | 1690 | 1641  |
| Line amperes    | 1.83 | 3.08 | 4.5  | 6.1  | 8.12 | 10.79 |

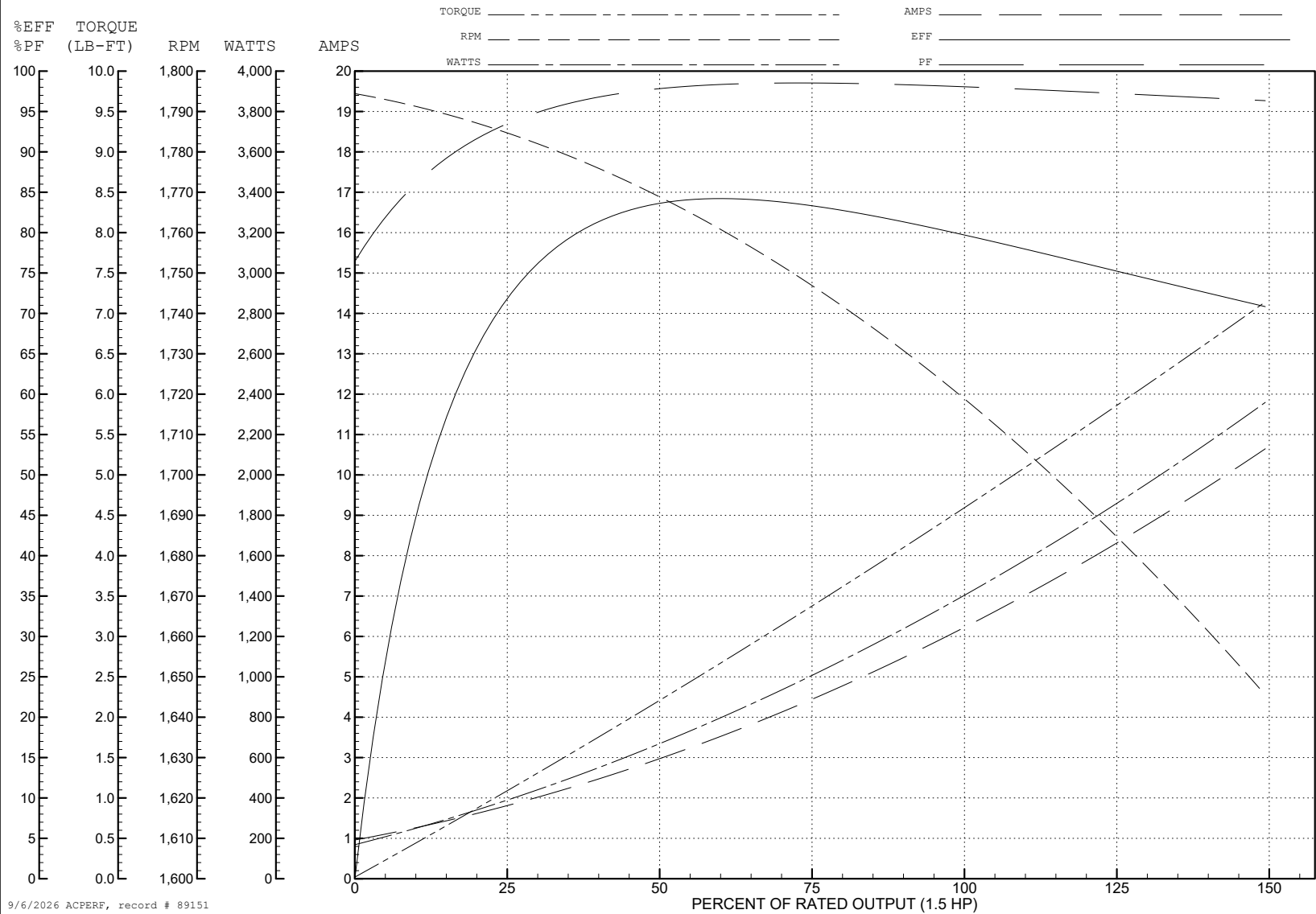
ABB Motors and Mechanical Inc.

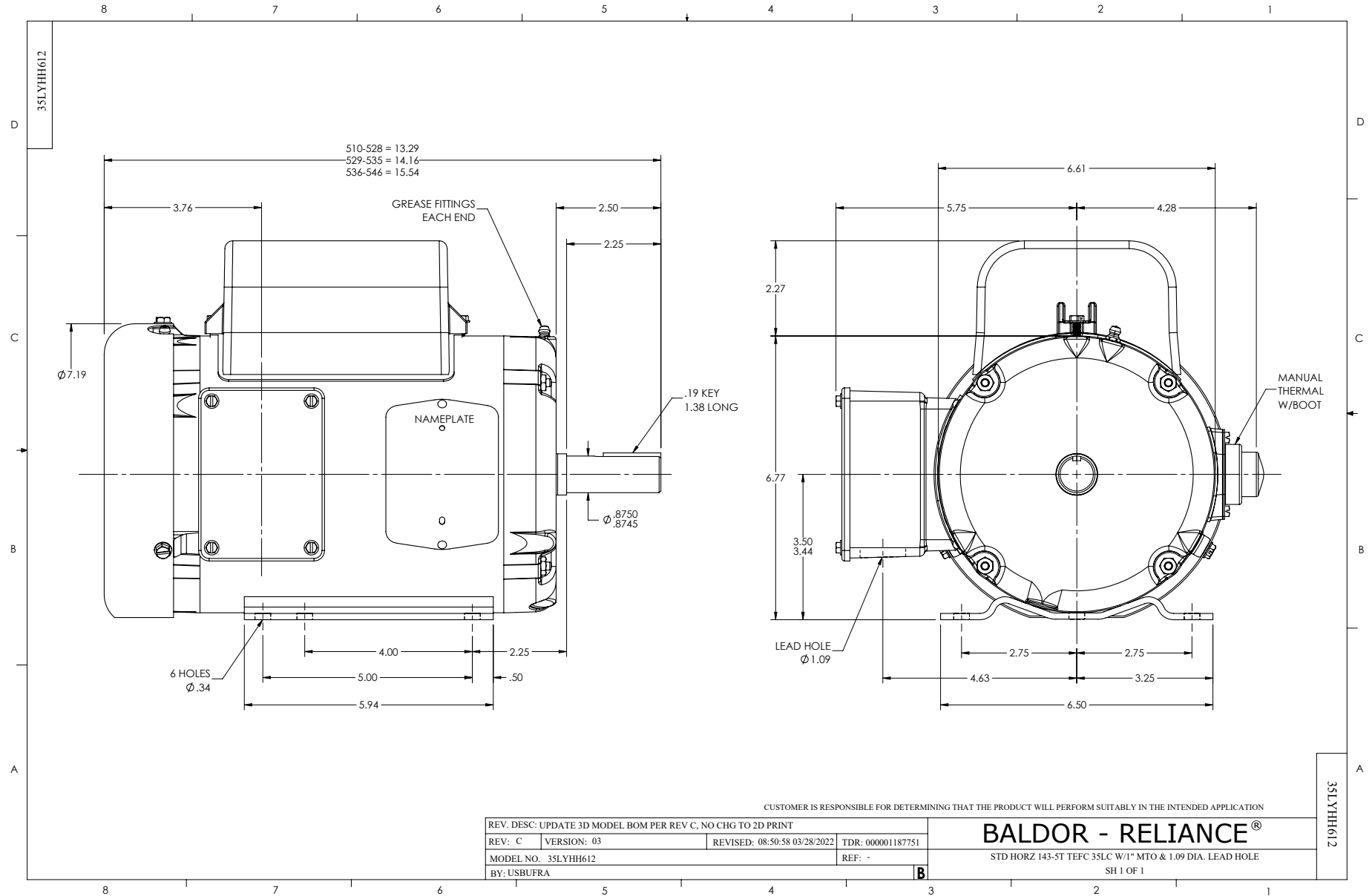
WINDING # 35WGG398

Typical performance - not guaranteed values.

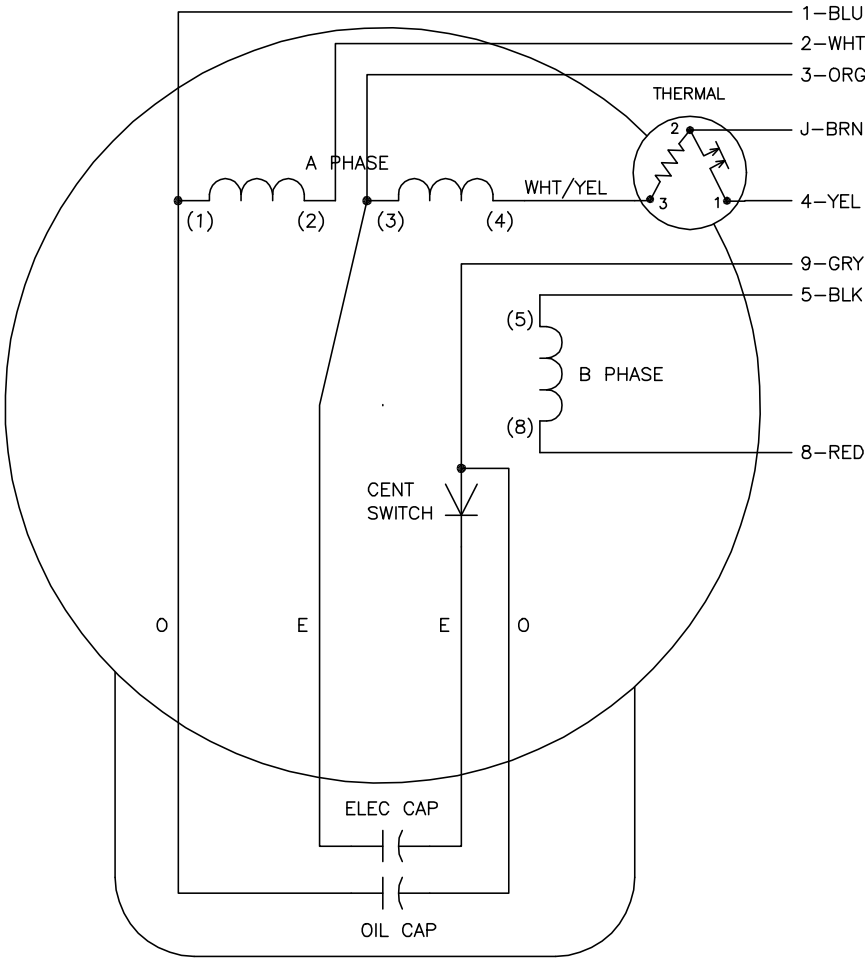
1.5 HP 1 PH 60 HZ 1725 RPM 230 V 3532LC

TORQUES (LB-FT): PO=9.9 PU=8.06 LR=12.98 LRA=43.97





CD0016A02



|          | LINE A | LINE B | JOIN | JOIN  | JOIN |
|----------|--------|--------|------|-------|------|
| HIGH STD | 1      | 4      | 2,3  | 8,9   | J,5  |
| HIGH OPP | 1      | 4      | 2,3  | 5,9   | J,8  |
| LOW STD  | 1,3    | 4      | 8,9  | 2,J,5 | —    |
| LOW OPP  | 1,3    | 4      | 5,9  | 2,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: REMOVE OPTIONAL THERMAL CONNECTION |                      |                              |
| REV. LTR: F                                   | VERSION: 01          | TDR: 000000373039            |
| CD0016A02                                     | FILE: \AAA\00007\411 | REVISED: 10:13:25 08/11/2005 |
|                                               | MTL: —               | BY: ENJOEPO                  |

BALDOR ELECTRIC Co.

TYPE LC, DV, REV, OIL CAP ACR. LINE, THERMAL, 8 LEADS

CD0016A02