

# ABB BALDOR RELIANCE III

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## Customer information packet

### FDL3619TM

3HP, 1725RPM, 1PH, 60HZ, 184T, 3634LC, TEFC, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                           |
|---------------------------------------|---------------------------|
| <b>Enclosure</b>                      | TEFC                      |
| <b>Frame</b>                          | 184T                      |
| <b>Frame Material</b>                 | Steel                     |
| <b>Frequency</b>                      | 60.00 Hz                  |
| <b>Haz Area Class and Group</b>       | None                      |
| <b>Haz Area Division</b>              | Not Applicable            |
| <b>Motor Letter Type</b>              | Cap Start, Cap Run        |
| <b>Output @ Frequency</b>             | 3.000 HP @ 60 HZ          |
| <b>Phase</b>                          | 1                         |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ          |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ           |
| <b>Agency Approvals</b>               | UR<br>CSA                 |
| <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>Current @ Voltage</b>              | 13.200 A @ 230.0 V        |
| <b>Design Code</b>                    | L                         |
| <b>Drip Cover</b>                     | No Drip Cover             |
| <b>Duty Rating</b>                    | CONT                      |
| <b>Efficiency @ 100% Load</b>         | 81.5 %                    |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated |
| <b>Feedback Device</b>                | NO FEEDBACK               |
| <b>Front Face Code</b>                | Standard                  |
| <b>Front Shaft Indicator</b>          | None                      |
| <b>Heater Indicator</b>               | No Heater                 |
| <b>High Voltage Full Load Amps</b>    | 13.2 a                    |
| <b>Insulation Class</b>               | F                         |
| <b>Inverter Code</b>                  | Not Inverter              |

**Part Detail**

|                     |                    |
|---------------------|--------------------|
| <b>Revision</b>     | N                  |
| <b>Type</b>         | AC                 |
| <b>Mech. spec.</b>  | 36Q165             |
| <b>Base</b>         |                    |
| <b>Status</b>       | PRD/A              |
| <b>Elec. spec.</b>  | 36WGW835           |
| <b>Layout</b>       | 36LYQ165           |
| <b>Eff. date</b>    | 04-15-2025         |
| <b>CD Diagram</b>   | CD0002A02          |
| <b>Poles</b>        | 04                 |
| <b>Leads</b>        | 2#14 A PH,3#16 B&J |
| <b>Proprietary</b>  | False              |
| <b>Created date</b> | 12-12-2013         |

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>KVA Code</b>                      | <b>H</b>                       |
| <b>Lifting Lugs</b>                  | <b>No Lifting Lugs</b>         |
| <b>Locked Bearing Indicator</b>      | <b>No Locked Bearing</b>       |
| <b>Motor Lead Exit</b>               | <b>Ko Box</b>                  |
| <b>Motor Lead Quantity/Wire Size</b> | <b>2 @ 14 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>3634LC</b>                  |
| <b>Mounting Arrangement</b>          | <b>F1</b>                      |
| <b>Number of Poles</b>               | <b>4</b>                       |
| <b>Overall Length</b>                | <b>16.54 IN</b>                |
| <b>Power Factor</b>                  | <b>90</b>                      |
| <b>Product Family</b>                | <b>General Purpose</b>         |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</b>          |
| <b>Pulley Face Code</b>              | <b>Standard</b>                |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>                |
| <b>Rodent Screen</b>                 | <b>None</b>                    |
| <b>Service Factor</b>                | <b>1.00</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>Shaft 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>None</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**

| NP1280L      |              |  |      |      |     |    |  |    |   |
|--------------|--------------|--|------|------|-----|----|--|----|---|
| CAT.NO.      | FDL3619TM    |  |      |      |     |    |  |    |   |
| SPEC.        | 36Q165W835G1 |  |      |      |     |    |  |    |   |
| HP           | 3            |  |      |      |     |    |  |    |   |
| VOLTS        | 230          |  |      |      |     |    |  |    |   |
| AMP          | 13.2         |  |      |      |     |    |  |    |   |
| RPM          | 1725         |  |      |      |     |    |  |    |   |
| FRAME        | 184T         |  | HZ   | 60   |     | PH |  | 1  |   |
| SER.F.       | 1.00         |  | CODE | H    | DES | L  |  | CL | F |
| NEMA-NOM-EFF | 81.5         |  | PF   | 90   |     |    |  |    |   |
| RATING       | 40C AMB-CONT |  |      |      |     |    |  |    |   |
| CC           |              |  |      |      |     |    |  |    |   |
| DE           | 6206         |  | ODE  | 6205 |     |    |  |    |   |
| ENCL         | TEFC         |  | SN   |      |     |    |  |    |   |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA274235     | SA 36Q165W835G1                          | 1.000 ea |
| RA260822     | RA 36Q165W835G1                          | 1.000 ea |
| TPBRD3930    | THERMAL 1PH 1.25 MAN REF BRD2998 TDR #58 | 1.000 ea |
| 36CB1000A22  | CONDUIT BOX, MACH                        | 1.000 ea |
| 37GS1000SP   | GASKET, CONDUIT BOX STD., .06 THICK LEXI | 1.000 ea |
| 51XB1016A10  | 10-16X 5/8HXWSSLD 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 |
| HA6015A08    | THERMAL RETAINER (PLATED)                | 1.000 ea |
| RM1014A01SP  | BUTYL RUB.THRM COV. (MENA)               | 1.000 ea |
| 51XB1214A16  | 12-14X1.00 HXWSSLD SERTYB                | 2.000 ea |
| 36FH4009A132 | IEC FH, NO GRSR & SPL NOTCH (NO DIMPLES) | 1.000 ea |
| 36EP3104A85  | FREP TEFC 36L/M 205 BRG W/EYEBOLT,NO GRS | 1.000 ea |
| HW3200A01    | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea |
| 13XF0832A08  | 8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN | 2.000 ea |
| 36GS3000     | GASKET, CAPACITOR COVER LEXIDE           | 1.000 ea |
| 10XN2520A12  | 1/4-20 X 3/4 HEX HEAD CAP                | 2.000 ea |
| HW5100A05    | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 36EP3100C11  | PU ENDPLATE, MACH                        | 1.000 ea |
| HW4600H12    | SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB | 1.000 ea |
| HW4600B36SP  | V-RING SLINGER 1.188 X 1.380 X .24 VITON | 1.000 ea |
| HW3200A01    | 3/8-16X3/4 EYEBOLT WELDED F/S            | 1.000 ea |
| XY2520A12    | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS   | 4.000 ea |
| 51XB1214A16  | 12-14X1.00 HXWSSLD SERTYB                | 1.000 ea |
| 51XW1032A06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 36CB4516     | 750LIPPED CB LID - GALVANNEAL            | 1.000 ea |
| 37GS1001SP   | GASKET, CONDUIT BOX LID, .06 THICK LEXID | 1.000 ea |
| 51XW0832A07  | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| HA1005A03SP  | SLINGER, OD 1.750, ID .938, 205 BRG      | 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 |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1087        | LABEL,MANUAL RESET (ROLL LABEL)          | 1.000 ea |
| MJ5001A27     | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 36CB5005A08   | CAPACITOR BOX KIT, 36CB3800Z, OC3030F11, | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 36FN3000A01SP | EXFN, PLASTIC, 7.00 OD, .912 ID          | 1.000 ea |
| MG1025C02     | WILKOFASST SG, 787.105, TAN              | 0.022 ga |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| HA3101A25     | THRUBOLT 1/4-20 X 11.000 OHIO ROD        | 4.000 ea |
| TP5059        | GENERIC WELDED THERMAL, 7" LEAD KIT      | 1.000 ea |
| SP5172A05     | 37 TYPE LC TORQ STAT SW LEAD ASSEMBLY    | 1.000 ea |
| LC0002        | CONNECTION LABEL                         | 1.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| NP1280L       | ALUM FARM DUTY UL CC THERMAL             | 1.000 ea |
| 36PA1001      | PKG GRP, PRINT PK1017A07                 | 1.000 ea |
| FE-0000001    | ZRTG FE ASSEMBLY                         | 1.000 ea |
| PE-0000002    | ZRTG PE ASSEMBLY                         | 1.000 ea |

**Accessories**

| Part number   | Description                             | Multiplier |
|---------------|-----------------------------------------|------------|
| 36-3301FDA    | C FACE KIT FARM DUTY F182-4TC, ENCL,    | P1         |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8         |

**AC Induction Motor Performance Data**

Record # 10851

Typical performance - not guaranteed values

| Winding: 36GW835-R001 |    |       | Type: 3634LC                          |                     | Enclosure: TEFC  |                         |       |                              |
|-----------------------|----|-------|---------------------------------------|---------------------|------------------|-------------------------|-------|------------------------------|
| Nameplate Data        |    |       | 230 V, 60 Hz:<br>Single Voltage Motor |                     |                  |                         |       |                              |
| Rated Output (HP)     |    | 3     | Full Load Torque                      |                     | 9 LB-FT          |                         |       |                              |
| Volts                 |    | 230   | Start Configuration                   |                     | direct on line   |                         |       |                              |
| Full Load Amps        |    | 13.2  | Breakdown Torque                      |                     | 22 LB-FT         |                         |       |                              |
| R.P.M.                |    | 1725  | Pull-up Torque                        |                     | 21.7 LB-FT       |                         |       |                              |
| Hz                    | 60 | Phase | 1                                     | Locked-rotor Torque |                  | 26 LB-FT                |       |                              |
| NEMA Design Code      |    | L     | KVA Code                              | H                   | Starting Current |                         | 100 A |                              |
| Service Factor (S.F.) |    | 1     |                                       | No-load Current     |                  | 6.2 A                   |       |                              |
| NEMA Nom. Eff.        |    | 81.5  | Power Factor                          |                     | 90               | Line-line Res. @ 25°C   |       | 0.698 Ω A Ph<br>1.342 Ω B Ph |
| Rating - Duty         |    | 40C   |                                       | AMB-CONT            |                  | Temp. Rise @ Rated Load |       | 84°C                         |

**Load Characteristics 230 V, 60 Hz, 3 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 66   | 82   | 84   | 89   | 90   | 92   |
| Efficiency      | 61.5 | 75   | 76.2 | 79.7 | 80.3 | 77.4 |
| Speed           | 1790 | 1783 | 1774 | 1764 | 1754 | 1739 |
| Line amperes    | 7.8  | 8.1  | 11.6 | 13.9 | 16.8 | 20.5 |



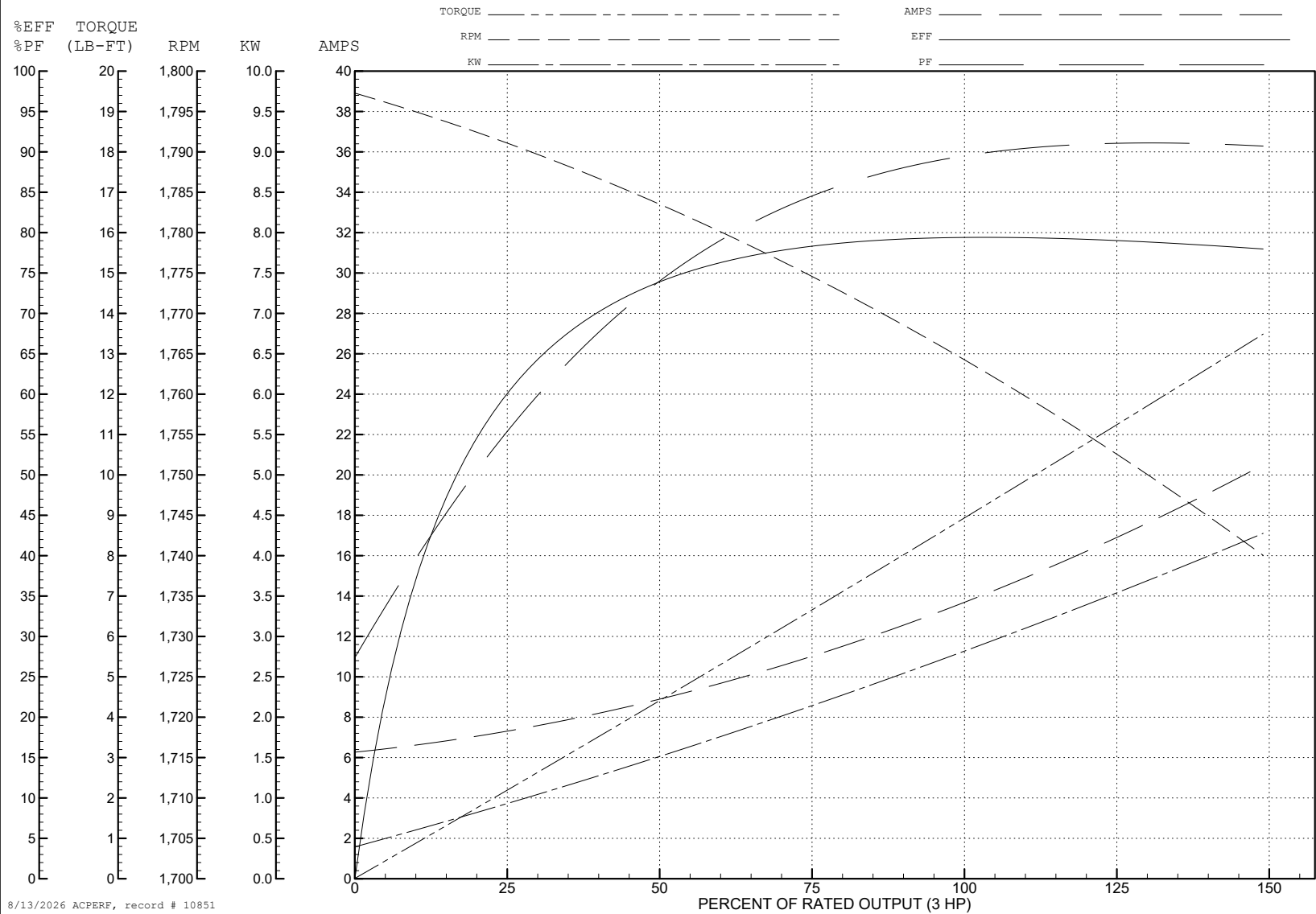
ABB Motors and Mechanical Inc.

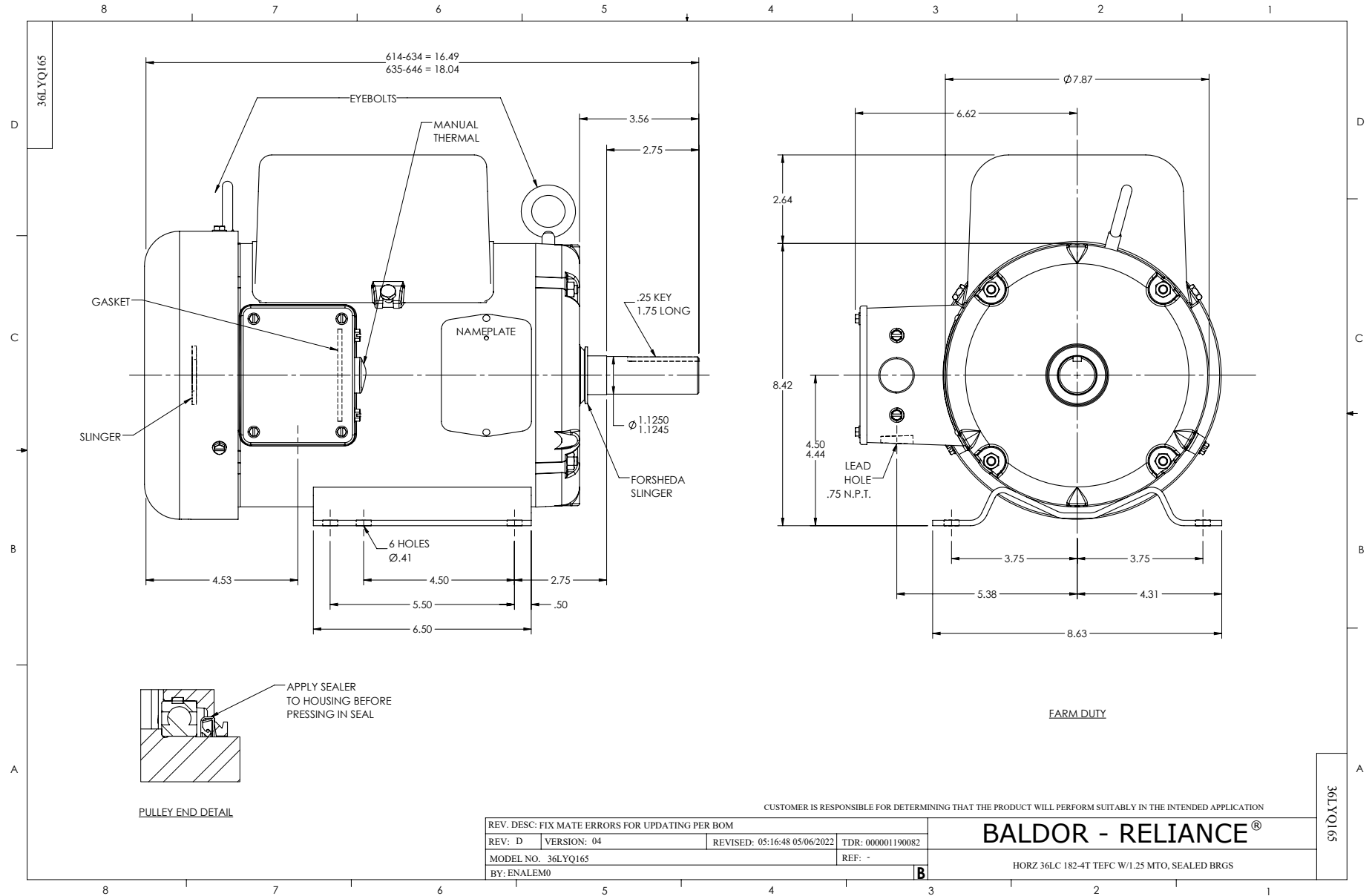
WINDING # 36WG835

Typical performance - not guaranteed values.

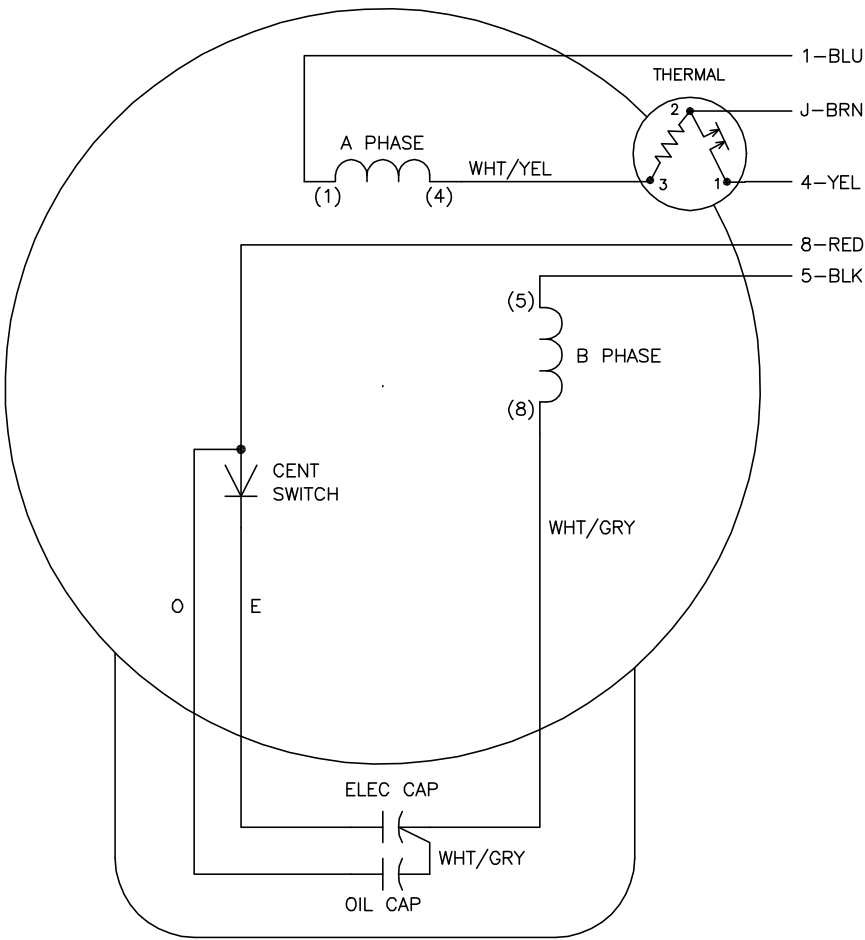
3 HP 1 PH 60 HZ 1725 RPM 230 V 3634LC

TORQUES (LB-FT): PO=22 PU=21.7 LR=26 LRA=100





CD0002A02



|     | 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: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0002A04 |                      |                              |
| REV. LTR: D                                                | VERSION: 01          | TDR: 000000360649            |
| CD0002A02                                                  | FILE: \AAA\00007\520 | REVISED: 17:11:40 04/15/2005 |
|                                                            | MTL: -               | BY: ENJOEPO                  |

**BALDOR ELECTRIC Co.**

TYPE LC, SV, REV, THERMAL, 5 LEADS

CD0002A02