ABB BALDOR RELIANCE

# Customer information packet

L3605

2HP, 1725RPM, 1PH, 60HZ, 184, 3628L, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | 2.000 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 115.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **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 @ 115.0 V |
| | 11.700 A @ 208.0 V |
| | 11.500 A @ 230.0 V |
| **Design Code** | L |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 75.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | AB |
| **Type** | AC |
| **Mech. spec.** | 36C011 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGW223 |
| **Layout** | 36LYC011 |
| **Eff. date** | 05-09-2024 |
| **CD Diagram** | CD0001 |
| **Poles** | 04 |
| **Leads** | 4#14 A PH,2#16 B PH |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 11.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | H |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 4 @ 14 AWG, A PH |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3628L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.69 IN |
| **Power Factor** | 74 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.875 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1725 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP1256L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L3605 | | | | | | | | |
| **SPEC.** | 36C11W223 | | | | | | | | |
| **HP** | 2 | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | |
| **AMP** | 23/11.5 | | | | | | | | |
| **RPM** | 1725 | | | | | | | | |
| **FRAME** | 184 | **HZ** | 60 | | | **PH** | 1 | | |
| **SER.F.** | 1.15 | **CODE** | H | **DES** | L | **CLASS** | F | | |
| **NEMA-NOM-EFF** | 75.5 | **PF** | 74 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA034354 | SA 36C11W223 | 1.000 ea |
| RA030382 | RA 36C11W223 | 1.000 ea |
| 36CB3004 | 36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0 | 1.000 ea |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 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 |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 ea |
| 36EP3104A01 | FREP MACH W/GRSR, RAISED FH PADS | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| 13XF0832A08 | 8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN | 2.000 ea |
| 51XB1016A05 | 10-16X5/16HX WA SL SR TYB (F/S) | 2.000 ea |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 ea |
| 36EP3100A01SP | PUEP ASSEMBLY FOR ROUTING PURPOSES | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| XY2520A12 | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS | 4.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| 36FH4009A102 | IEC FH GREASER PRIMED | 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 |
| 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 |
| WD1000A15 | 3-520132-2 AMP FLAG (4M/RL NON-CANC/NON- | 2.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| 36FN3000A01SP | EXFN, PLASTIC, 7.00 OD, .912 ID | 1.000 ea |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.022 ga |
| EC1850A06SP | ELEC CAP 115V 2.0 X 4.3 X | 1.000 ea |
| HA3101A25 | THRUBOLT 1/4-20 X 11.000 OHIO ROD | 4.000 ea |
| SP5172A09 | 37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY | 1.000 ea |

| | | |
|---|---|---|
| 35CB4802A02SP | CAPACITOR COVER, STAMPED X | 1.000 ea |
| 35GS3001A02 | GASKET, CA.COVER, 5.38 LONG .06 CS301 | 1.000 ea |
| LC0001A01 | CONN LABEL / WARNING LABEL (LC0001 / LB1 | 1.000 ea |
| NP1256L | ALUM UL CC INDUSTRIAL MOTOR A60 | 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 |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 36-1037 | C FACE KIT | A8 |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8 |

**AC Induction Motor Performance Data**
Record # 61411
Typical performance - not guaranteed values

| **Winding:** 36WGW223-R004 | **Type:** 3628L | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **115 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 6 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 23/11.5 | **Breakdown Torque** | 17.4 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 11.4 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 14.4 LB-FT |
| **NEMA Design Code** | L | **KVA Code** | H | **Starting Current** | 142 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 14.2 A |
| **NEMA Nom. Eff.** | 75.5 | **Power Factor** | 74 | **Line-line Res. @ 25ºC** | 0.239 Ω A Ph<br>1.14 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 75°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 88°C |
| | | | | **Locked-rotor Power Factor** | 83.9 |
| | | | | **Rotor inertia** | 0.263 LB-FT2 |

**Load Characteristics 115 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 36 | 54 | 67 | 74 | 79 | 82 | 77 |
| **Efficiency** | 61 | 73 | 75 | 75.5 | 74 | 73 | 74.6 |
| **Speed** | 1788 | 1775 | 1760 | 1745 | 1730 | 1712 | 1736 |
| **Line amperes** | 15 | 16.8 | 19.6 | 23 | 27.4 | 31.6 | 25.6 |

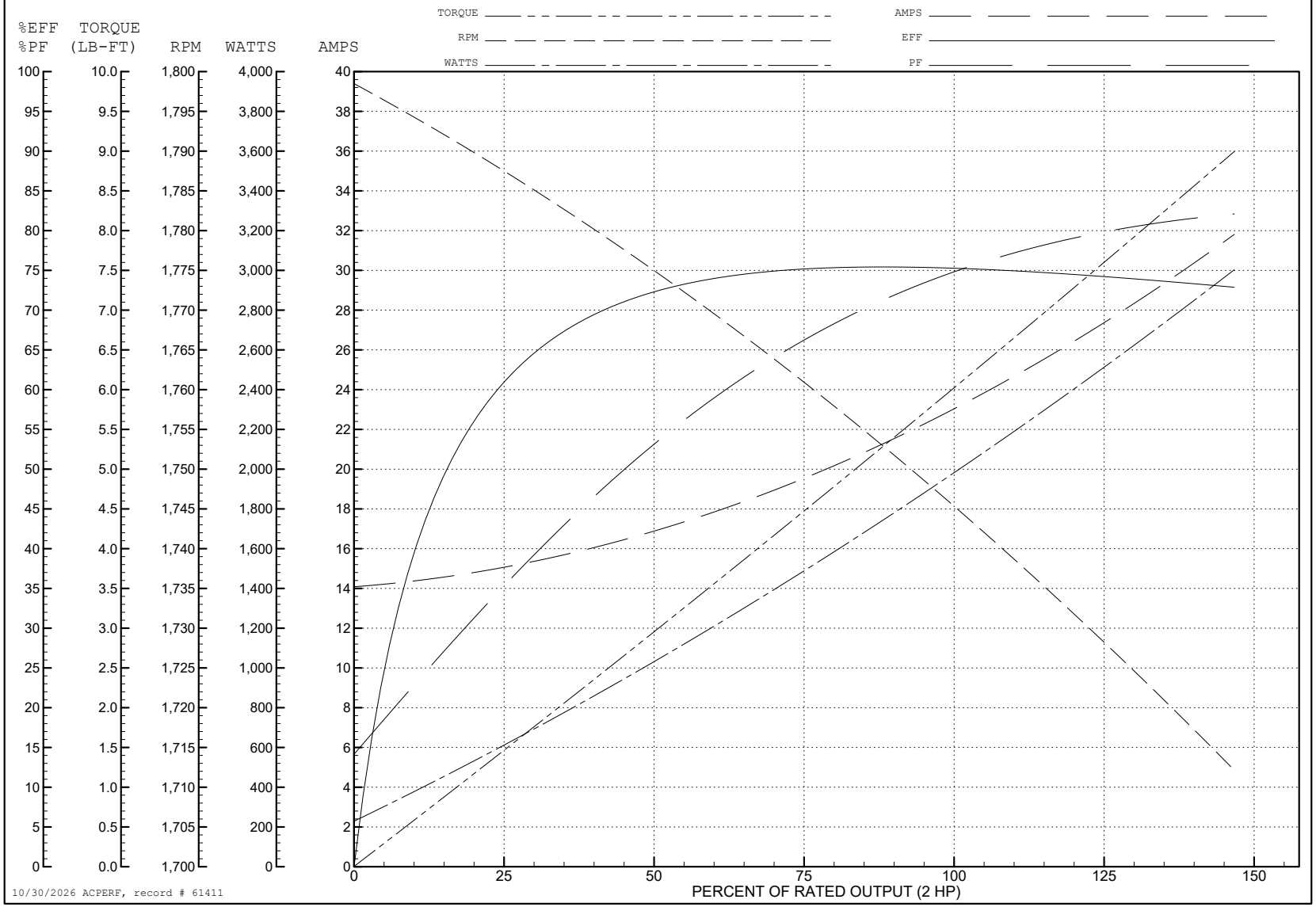
ABB Motors and Mechanical Inc.

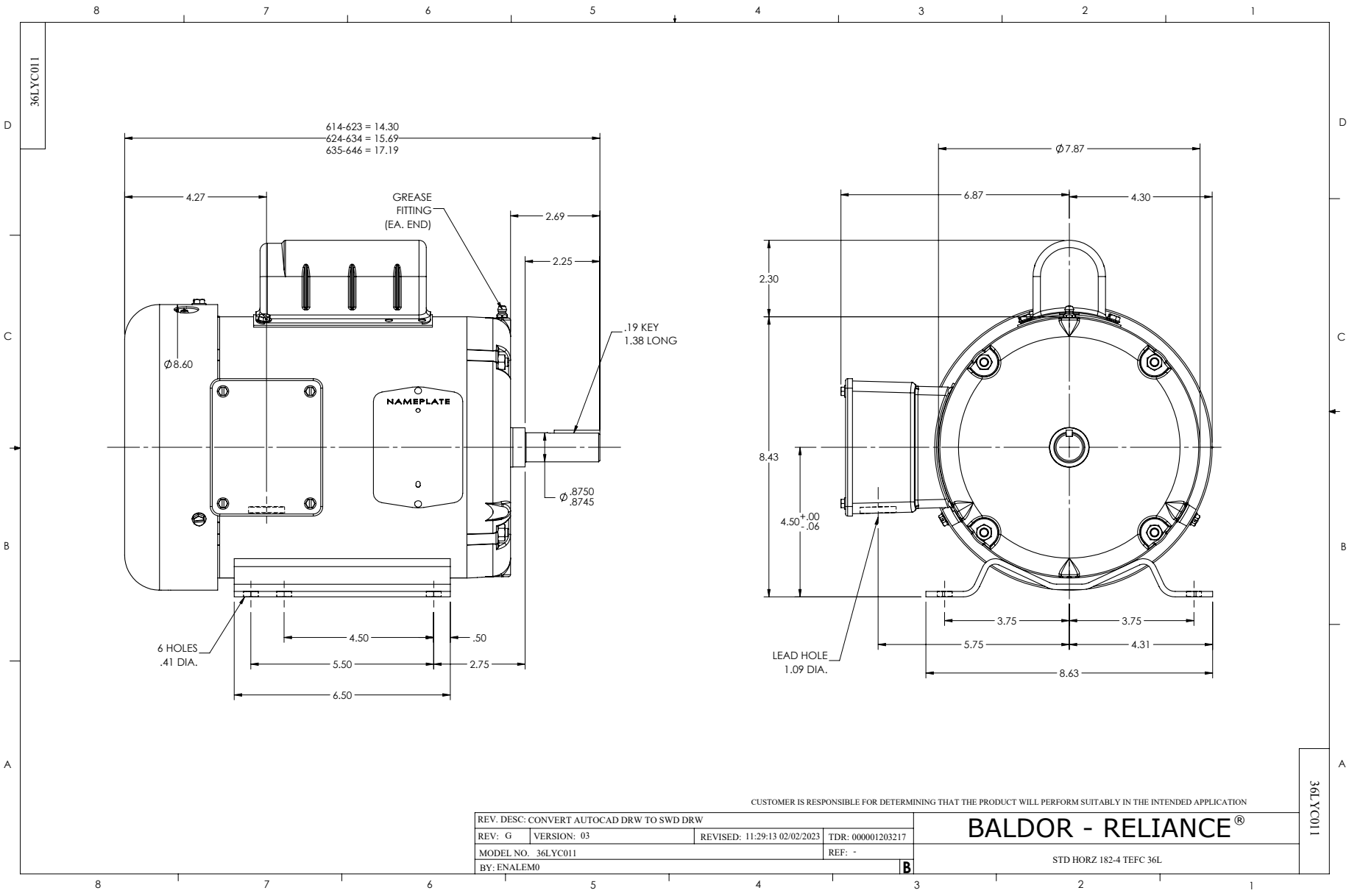
WINDING # 36WGW223

2 HP 1 PH 60 HZ 1725 RPM 115 V 3628L

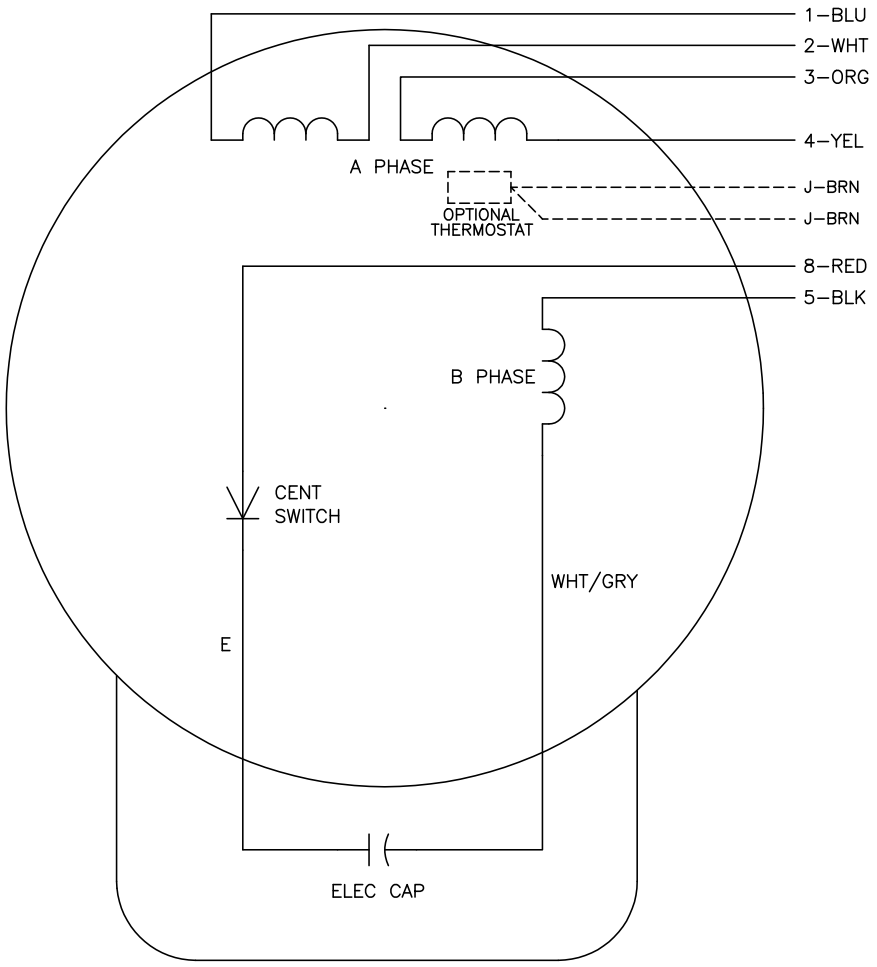
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=17.4 PU=11.4 LR=14.4 LRA=142




36LYC011
614-623 = 14.30
624-634 = 15.69
635-646 = 17.19
4.27
GREASE FITTING (EA. END)
2.69
2.25
.19 KEY
1.38 LONG
Ø8.60
NAMEPLATE
Ø .8750
.8745
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
6.87
4.30
2.30
8.43
4.50 +.00 -.06
3.75
3.75
5.75
4.31
LEAD HOLE
1.09 DIA.
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: G
VERSION: 03
REVISED: 11:29:13 02/02/2023
TDR: 000001203217
MODEL NO. 36LYC011
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4 TEFC 36L
36LYC011

CD0001




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | – |
| LOW OPP | 1,3,5 | 2,4,8 | – |

NOTES:

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

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | BY: JLP | REVISED: 04/08/99 1:16 | TDR: 0178636 |
| CD0001 | | FILE: AAA00007405 | MDL: – |
| | | MTL: – | TYPE L, DV, REV, 6 LEADS |

CD0001