ABB BALDOR RELIANCE

# Customer information packet

## EWDM3614T

2HP, 1175RPM, 3PH, 60HZ, 184T, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184T |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 2.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1200 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | CSA EEV |
| | NEMA PREMIUM |
| | 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** | 3.500 A @ 460.0 V |
| | 7.000 A @ 230.0 V |
| **Design Code** | A |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 88.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.5 a |

## Part Detail

| | |
|---|---|
| **Revision** | C |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 36WGS917 |
| **Layout** | 36LYK186 |
| **Eff. date** | 02-14-2024 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 11-25-2019 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | M |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3644M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 18.04 IN |
| **Power Factor** | 60 |
| **Product Family** | Wash Down |
| **Pulley Face Code** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Speed** | 1175 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**

| NP1669L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EWDM3614T | | | | | | | | | | |
| **SPEC.** | 36-0000-0236 | | | | | | | | | | |
| **HP** | 2 | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMP** | 7/3.5 | | | | | | | | | | |
| **RPM** | 1175 | | | | | | | | | | |
| **FRAME** | 184T | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | M | **DES** | A | **CLASS** | F | | | | |
| **NEMA-NOM-EFF** | 88.5 | **PF** | 60 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | 010A | | | | | | | | | | |
| **DE** | 6206 | | **ODE** | 6205 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | | |
| **BLANK** | 20:1 CT, 20:1 VT,1.00SF | | | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA376626 | SA 36-0000-0236 | 1.000 ea |
| RA366543 | RA 36-0000-0236 | 1.000 ea |
| LB1164 | LABEL,WARNING AND DRAIN | 1.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP1669L | SS WD SUPER-E UL PREM REV MTG | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| HW3200A01 | 3/8-16X3/4 EYEBOLT WELDED F/S | 1.000 ea |
| 36FH4010A08 | IEC FH NO GREASER - W/PRIMER | 1.000 ea |
| 11XW1032S06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 3.000 ea |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID | 1.000 ea |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| HA3101S28 | THRUBOLT- 1/4-20 X 12.50 SS | 4.000 ea |
| XY2520S12 | 1/4-20 SS HEX NUT | 4.000 ea |
| 36EP3104A03MW | FREP MACH (RAISED FH PADS) WHITE EPOXY | 1.000 ea |
| HW4600B32SP | V-RING SLINGER 1.000 X 1.540 X .24 VITON | 1.000 ea |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 ea |
| HW4032A01 | BLACK DRAIN PLUG FOR WASH DOWN MOTORS | 3.000 ea |
| 36EP3100A40MW | PU ENDPLATE-ENCL.WASH DOWN DUTY (WHITE E | 1.000 ea |
| HW4600B36SP | V-RING SLINGER 1.188 X 1.380 X .24 VITON | 1.000 ea |
| HW4600B50 | SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB | 1.000 ea |
| HA5027A01 | HA4066A01 T-DRAIN X2 BAGGED | 1.000 ea |
| HW4032A01 | BLACK DRAIN PLUG FOR WASH DOWN MOTORS | 3.000 ea |
| 36CB3005A03W | 36 CB .75 NPT @ 6 W/WHITE EPOXY | 1.000 ea |
| 35GS1039 | 05 MOLDED GASKET W/LIP, 1.12 LEAD HOLE, | 1.000 ea |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 ea |
| HW3001B02 | BRASS CUP WASHER W/GROUND SYMBOL TAB, | 1.000 ea |
| 36CB4518 | 36 LIPPED CB LID PRIMED | 1.000 ea |
| 37GS3010SP | 1/16"WHITE LID GASKET | 1.000 ea |
| 59XW0832S07 | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 ea |

| | | |
|---|---|---|
| MG1025W01 | WILKOFAST, 781.01, SIGNAL WHITE #9003 | 0.022 ga |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.001 qt |
| G0PA1000 | PKG GRP, PRINT PK1026A06 | 1.000 ea |
| HW2502E16 | #303 SS,SQ KEY 1/4 X 1.750 | 1.000 ea |
| HA7000A02 | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 ea |
| MG1025Z02 | ACTIVATOR WILKOFAST 060.02HF | 0.022 ga |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 ea |
| PE-0000002 | ZRTG PE ASSEMBLY | 1.000 ea |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 53367
Typical performance - not guaranteed values

| **Winding:** 36WGS917-R019 | **Type:** 3644M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 8.91 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7/3.5 | **Breakdown Torque** | 40.2 LB-FT |
| **R.P.M.** | | | 1175 | **Pull-up Torque** | 21.6 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 28.2 LB-FT |
| **NEMA Design Code** | A | **KVA Code** | M | **Starting Current** | 27.5 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.45 A |
| **NEMA Nom. Eff.** | 88.5 | **Power Factor** | 60 | **Line-line Res. @ 25ºC** | 4.02 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 34°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 39°C |
| | | | | **Locked-rotor Power Factor** | 28.7 |
| | | | | **Rotor inertia** | 0.413 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 24 | 40 | 52 | 60 | 66 | 70 | 64 |
| **Efficiency** | 76.4 | 85.3 | 87.9 | 88.8 | 88.9 | 88.2 | 88.8 |
| **Speed** | 1197 | 1191 | 1186 | 1179 | 1173 | 1166 | 1175 |
| **Line amperes** | 2.53 | 2.76 | 3.09 | 3.49 | 3.97 | 4.52 | 3.78 |

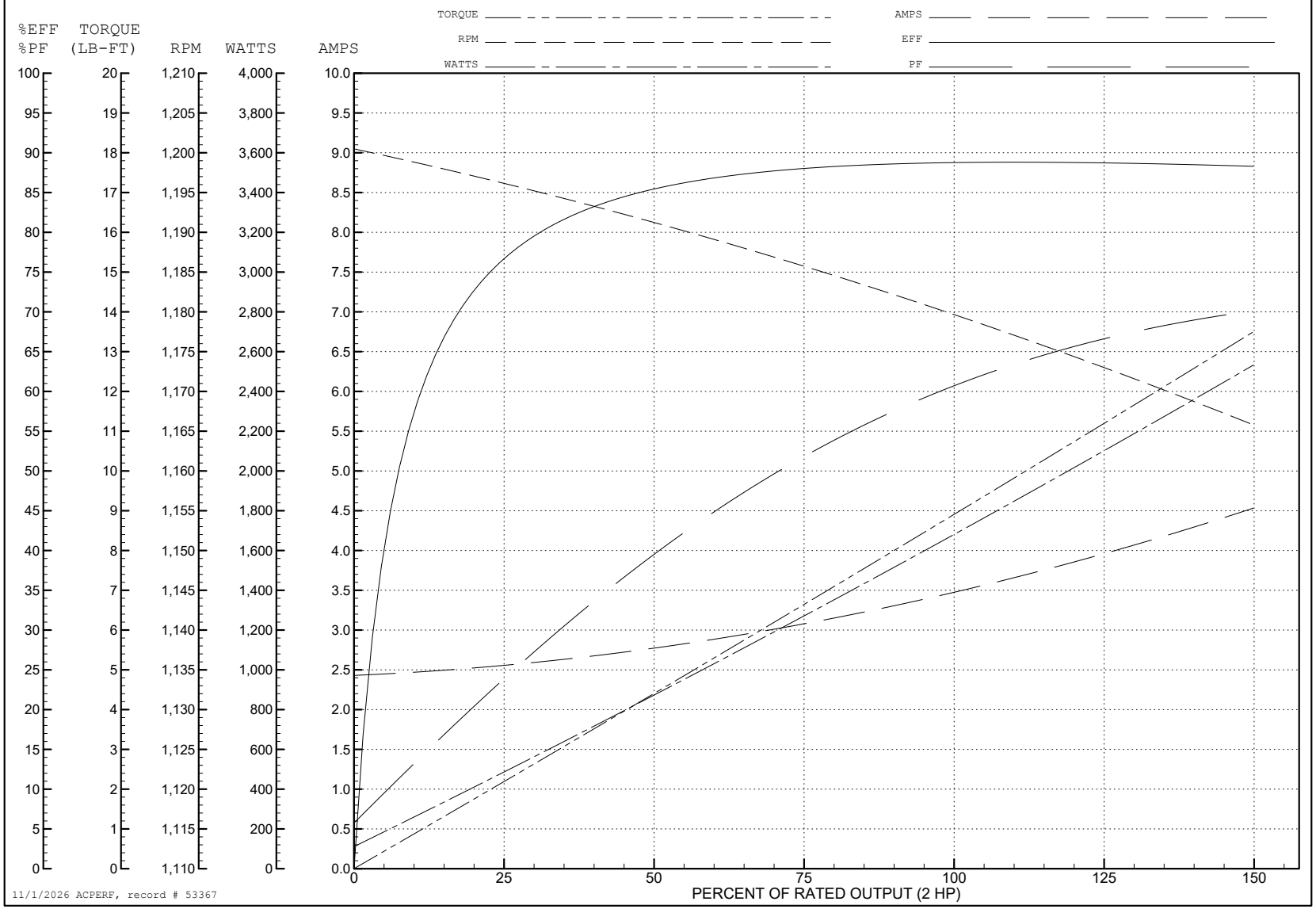
ABB Motors and Mechanical Inc.

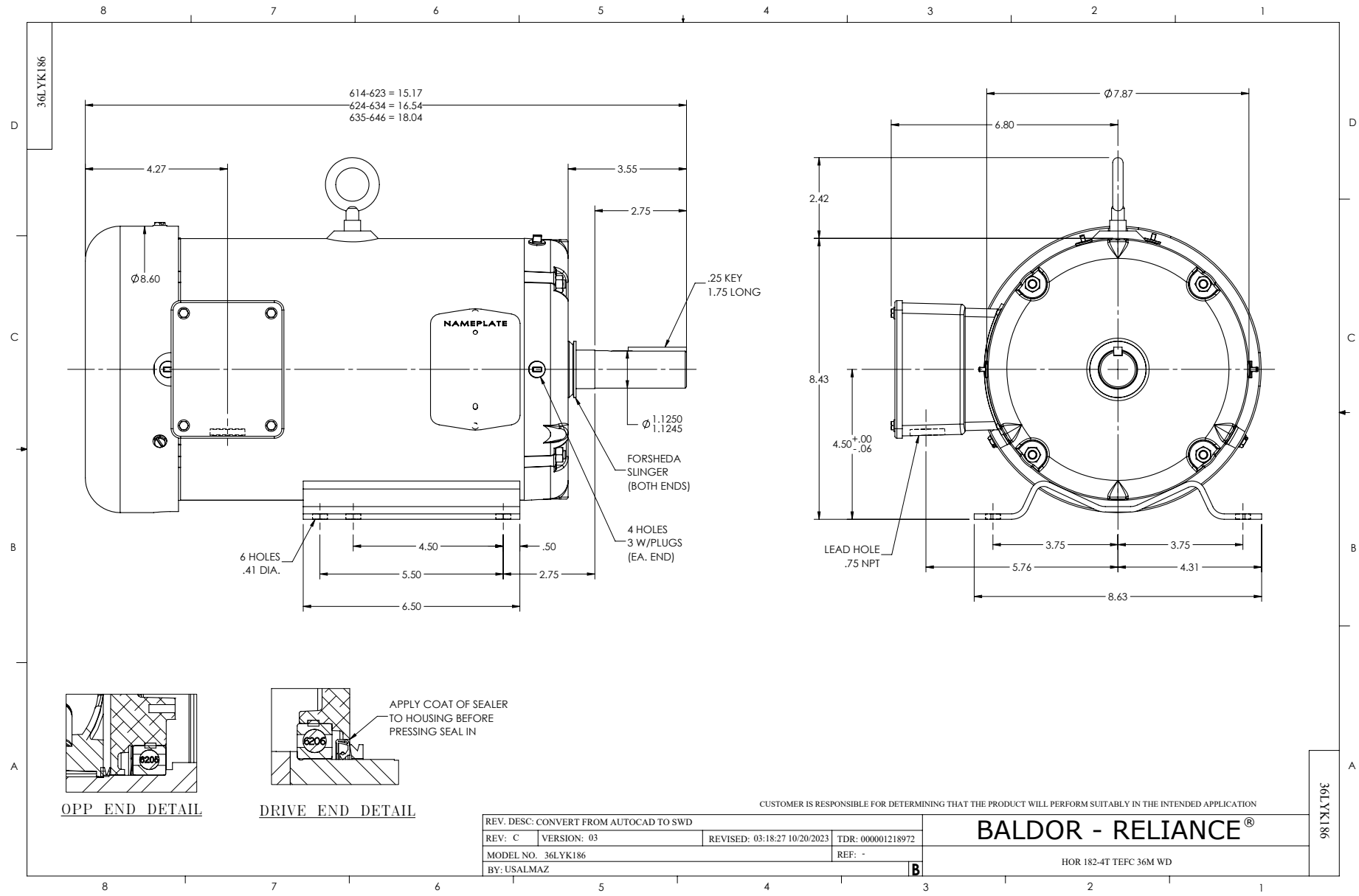
WINDING # 36WGS917

Typical performance - not guaranteed values.

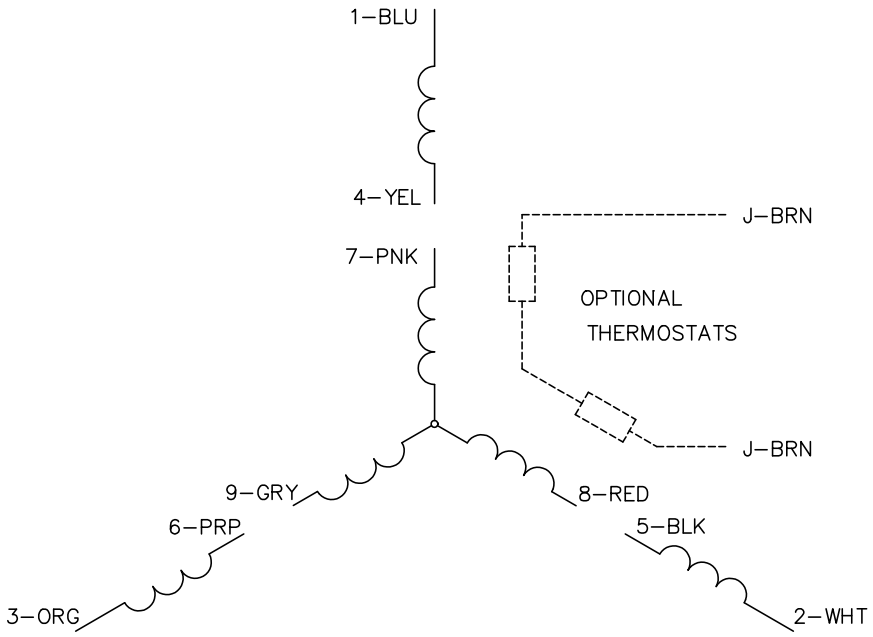
2 HP 3 PH 60 HZ 1175 RPM 460 V 3644M

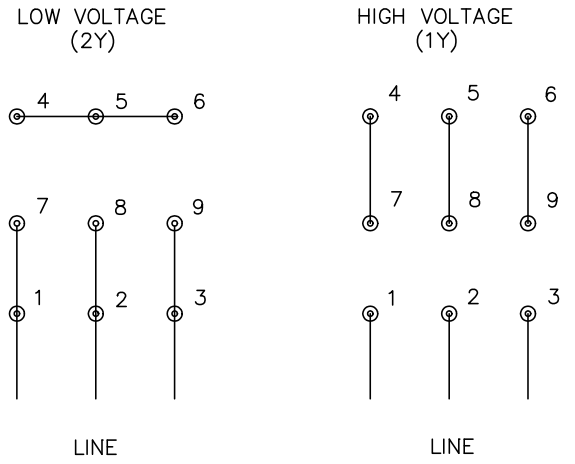
TORQUES(LB-FT): PO=40.2 PU=21.6 LR=28.2 LRA=27.5




36LYK186
614-623 = 15.17
624-634 = 16.54
635-646 = 18.04
4.27
3.55
2.75
Ø8.60
NAMEPLATE
.25 KEY
1.75 LONG
Ø1.1250
1.1245
FORSHEDA
SLINGER
(BOTH ENDS)
4 HOLES
3 W/PLUGS
(EA. END)
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.87
6.80
2.42
8.43
4.50 +.00 -.06
LEAD HOLE
.75 NPT
3.75
3.75
5.76
4.31
8.63
6206
APPLY COAT OF SEALER
TO HOUSING BEFORE
PRESSING SEAL IN
OPP END DETAIL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: C
VERSION: 03
REVISED: 03:18:27 10/20/2023
TDR: 000001218972
MODEL NO. 36LYK186
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HOR 182-4T TEFC 36M WD
36LYK186

CD0005




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.

CD0005

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |