# Customer information packet

VEM3664T

2HP, 1165RPM, 3PH, 60HZ, 184TC, 0642M, TEFC, F1
Class - None
Division - Not Applicable

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10/31/2026 11:27:02 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184TC |
| **Frame Material** | Iron |
| **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** | 460.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| **Agency Approvals** | CURUSEEV |
| | NEMA PREMIUM |
| | NEMA PREMIUM (OLD LOGO) |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 6.300 A @ 230.0 V |
| | 6.600 A @ 208.0 V |
| | 3.150 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 88.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | 06C103 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGW970 |
| **Layout** | 06LYC103 |
| **Eff. date** | 10-09-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 06 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 04-22-2015 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.2 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **IP Rating** | NONE |
| **KVA Code** | K |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0642M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 15.98 IN |
| **Power Factor** | 68 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1165 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**

| NP3441LUA | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | VEM3664T | | | | | | | | | |
| **SPEC** | 06C103W970G1 | | | | | | | | | |
| **HP** | 2 | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | |
| **AMPS** | 6.3/3.15 | | | | | | | | | |
| **RPM** | 1165 | | | | | | | | | |
| **FRAME** | 184TC | **HZ** | 60 | **PH** | 3 | | | | | |
| **SF** | 1.15 | **CODE** | K | **DES** | B | **CLASS** | F | | | |
| **NEMA NOM. EFF** | 88.5 | **PF** | 68 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | 010A | | | | | | | | | |
| **ENCL** | TEFC | **SER** | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | | |
| **VPWM INVERTER READY** | SFA 7/3.5 | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | | |
| | 50HZ 2HP 190/380V 7.4/3.7A | | | | | | | | | SF1.0 |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA299815 | SA 06C103W970G1 | 1.000 ea |
| RA286847 | RA 06C103W970G1 | 1.000 ea |
| 36FN3000B01 | EXFN, PLASTIC, 6.00 OD, .912 ID | 1.000 ea |
| HW3201A05 | 3/8-16 EYEBOLT | 1.000 ea |
| 06CB3000 | BALDOR CONDUIT BOX CAST | 1.000 ea |
| 06GS1000 | GASKET,CONDUIT BOX | 1.000 ea |
| 51XW2520A12 | SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75 | 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 |
| 36EP1101A01 | FR ENDPLATE, MACH | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 ea |
| 36PE1300A01 | PU ENDPLATE, MACH | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| 10XN2520A26 | 1/4-20X 1 5/8 HEX HD | 4.000 ea |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| HA3101A34 | THRUBOLT- 1/4-20 X 10.375 | 4.000 ea |
| 36FH4009A03SP | IEC FH , W/ PRIMER | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 06CB3500 | BALDOR CONDUIT BOX LID | 1.000 ea |
| 06GS1001 | BALDOR CONDUIT BOX GASKET | 1.000 ea |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 2.000 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 |
| MJ1000A02 | GREASE, POLYREX EM EXXON | 0.050 lb |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 ea |
| MG1050Y01 | CELEROL BALDOR GOLD *5 GALLON BUCKET* | 0.028 ga |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 ea |
| NP3441LUA | AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM | 1.000 ea |

| | | |
|---|---|---|
| 36PA1001 | PKG GRP, PRINT PK1017A07 | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 53064
Typical performance - not guaranteed values

| **Winding:** 06WGW970-R023 | **Type:** 0642M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 2 | **Full Load Torque** | 9.05 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 6.3/3.15 | **Breakdown Torque** | 31.2 LB-FT |
| **R.P.M.** | | | 1165 | **Pull-up Torque** | 16.7 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 19.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | K | **Starting Current** | 20.9 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 1.84 A |
| **NEMA Nom. Eff.** | 88.5 | **Power Factor** | 68 | **Line-line Res. @ 25ºC** | 5.42 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 27°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 33°C |
| | | | | **Rotor inertia** | 0.394 LB-FT2 |

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

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 31 | 48 | 60 | 68 | 73 | 75 | 71 |
| **Efficiency** | 80.5 | 86.9 | 88.5 | 88.6 | 87.9 | 86.6 | 88.2 |
| **Speed** | 1193.1 | 1186 | 1178.3 | 1170 | 1160.8 | 1150 | 1164 |
| **Line amperes** | 1.97 | 2.26 | 2.67 | 3.14 | 3.68 | 4.33 | 3.46 |

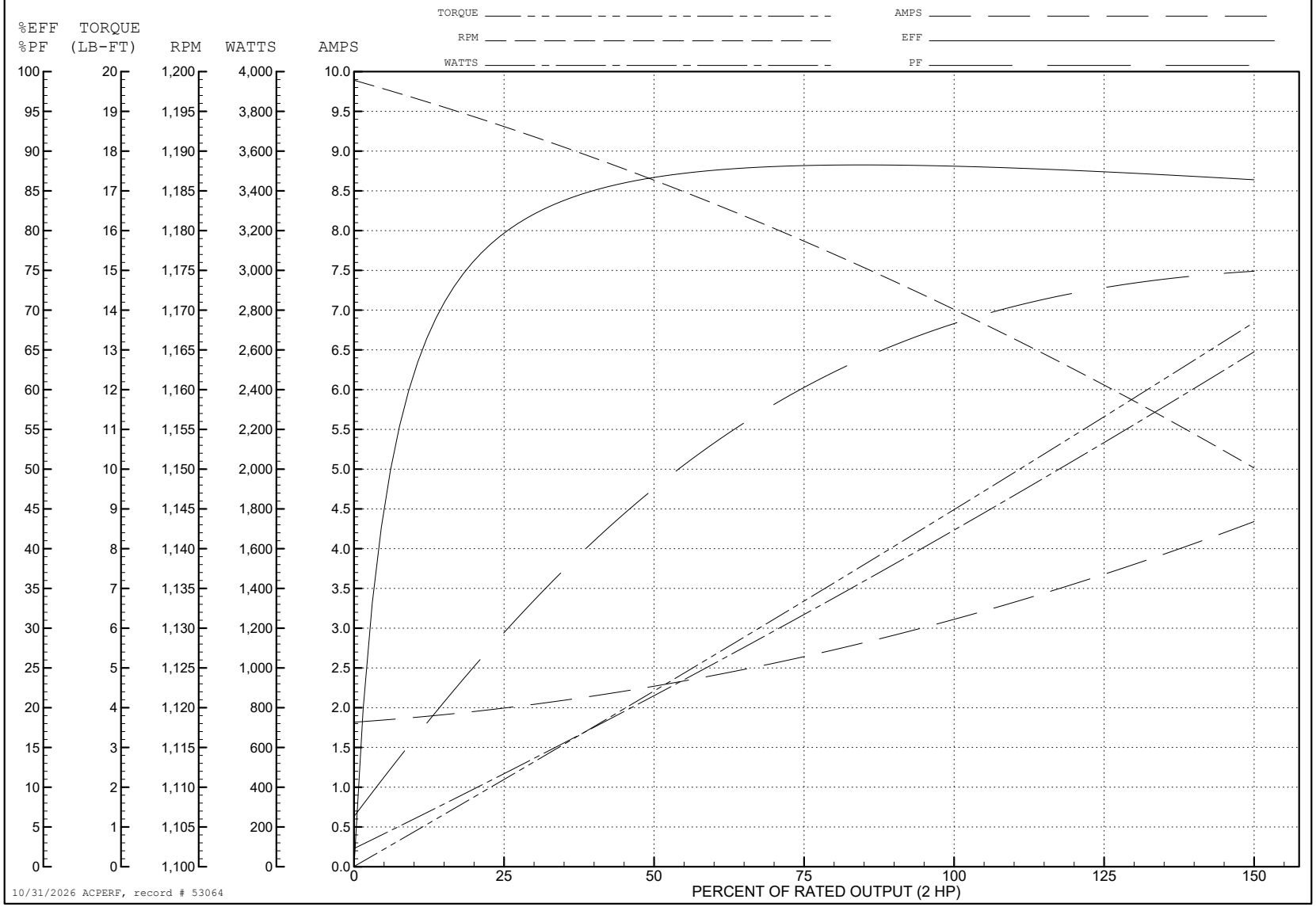
ABB Motors and Mechanical Inc.

WINDING # 06WGW970

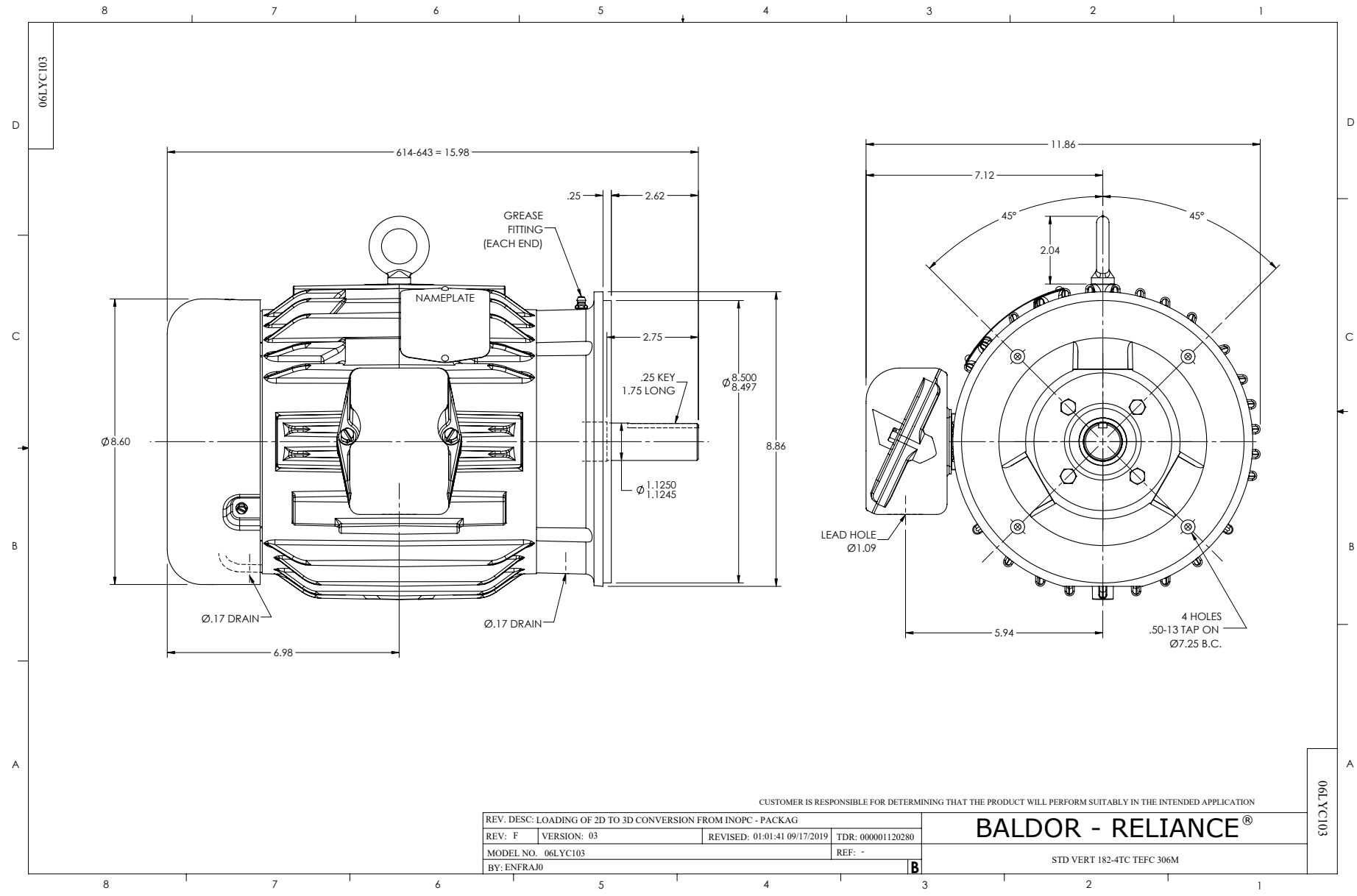
2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M

Typical performance - not guaranteed values.

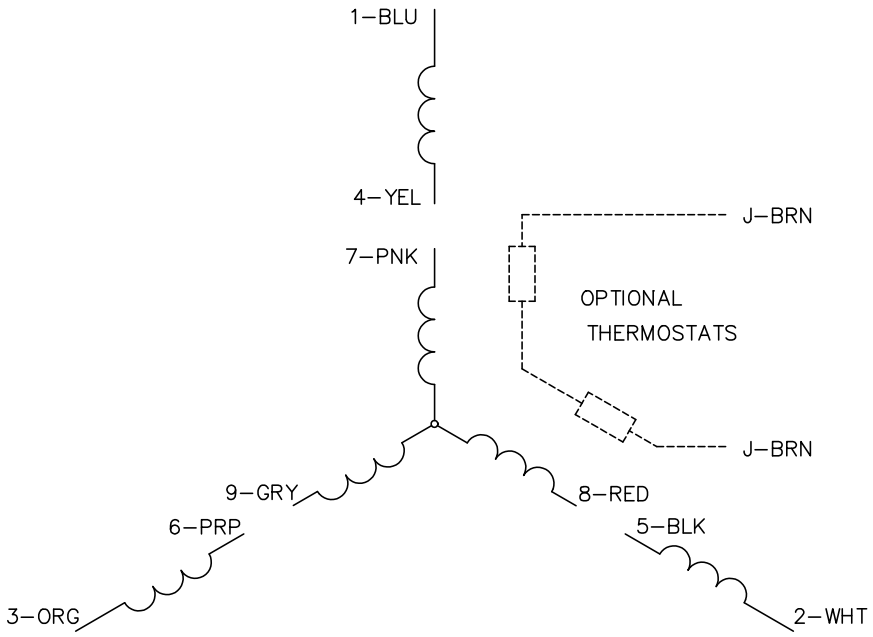
TORQUES(LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=20.9

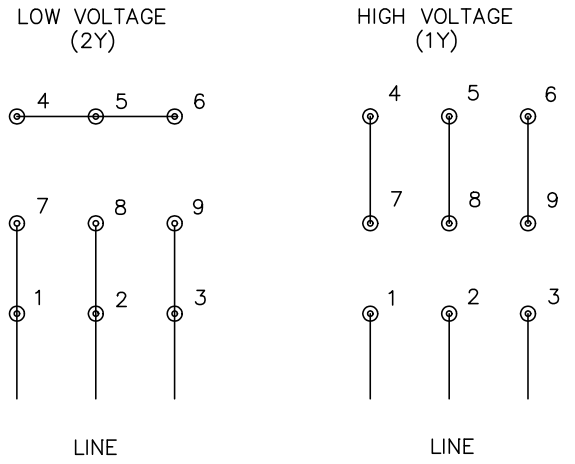



10/31/2026 ACPERF, record # 53064


06LYC103
614-643 = 15.98
.25
2.62
GREASE FITTING (EACH END)
NAMEPLATE
2.75
.25 KEY
1.75 LONG
Ø 8.500
8.497
Ø 8.60
8.86
Ø 1.1250
1.1245
Ø.17 DRAIN
Ø.17 DRAIN
6.98
11.86
7.12
45°
45°
2.04
LEAD HOLE
Ø1.09
5.94
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF 2D TO 3D CONVERSION FROM INOPC - PACKAG
REV: F
VERSION: 03
REVISED: 01:01:41 09/17/2019
TDR: 000001120280
MODEL NO. 06LYC103
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD VERT 182-4TC TEFC 306M
06LYC103

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 |