ABB BALDOR RELIANCE

# Customer information packet

## EM3665T-8G

5HP, 1750RPM, 3PH, 60HZ, 184T, 0641M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 184T |
| **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** | 5.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 200.0 V @ 60 HZ |
| **Agency Approvals** | CSA EEV |
| | 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** | 15.100 A @ 200.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 15.1 a |
| **Insulation Class** | H |

## Part Detail

| | |
|---|---|
| **Revision** | K |
| **Type** | AC |
| **Mech. spec.** | 06G729 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGX201 |
| **Layout** | 06LYG729 |
| **Eff. date** | 12-23-2025 |
| **CD Diagram** | CD0006 |
| **Poles** | 04 |
| **Leads** | 3#14 |
| **Proprietary** | False |
| **Created date** | 09-11-2013 |

| | |
|---|---|
| **Inverter Code** | Inverter Ready |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0642M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 15.23 IN |
| **Power Factor** | 79 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.125 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1750 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**

| NP3441L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | EM3665T-8G | | | | | | | | |
| **SPEC.** | 06G729X201G1 | | | | | | | | |
| **HP** | 5 | | | | | | | | |
| **VOLTS** | 200 | | | | | | | | |
| **AMP** | 15.1 | | | | | | | | |
| **RPM** | 1750 | | | | | | | | |
| **FRAME** | 184T | **HZ** | 60 | | **PH** | 3 | | | |
| **SER.F.** | 1.15 | **CODE** | J | **DES** | B | **CL** | H | | |
| **NEMA-NOM-EFF** | 89.5 | **PF** | 79 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | 010A | | | | | | | | |
| **DE** | 6206 | **ODE** | 6205 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| **VPWM INVERTER READY** | | | | | | | | | |
| **CT6-60H(10:1)VT3-60H(20:1** | | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA269063 | SA 06G729X201G1 | 1.000 ea |
| RA255717 | RA 06G729X201G1 | 1.000 ea |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 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 |
| 36EP1101A21 | FR ENDPLATE, MACH | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 ea |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 ea |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 ea |
| 36EP1100B01 | PUEP 6206 BRG W/STD DRN, GRSR,RLF,LOCKED | 1.000 ea |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 ea |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 ea |
| 10XN2520A24 | 1/4-20X 1 1/2 HEX HD X | 4.000 ea |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| HA3101A53 | THRUBOLT 1/4-20 X 10.50 | 4.000 ea |
| XY2520A12 | 1/4-20 HEX NUT, DIRECTIONAL SERRATIONS | 4.000 ea |
| 36FH4009A31 | IEC FH W/GREASER & SPL NOTCH, 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 |
| LB1624 | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| LB1459 | AEGIS SGR LABEL "AEGISLBL-100" | 1.000 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 |
| LC0006 | CONNECTION LABEL | 1.000 ea |
| NP3441L | ALUM SUPER-E VPWM INVERTER READY UL EEV | 1.000 ea |
| 36PA1001 | PKG GRP, PRINT PK1017A07 | 1.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 ea |

**AC Induction Motor Performance Data**
Record # 50348
Typical performance - not guaranteed values

| **Winding:** 06WGX201-R005 | **Type:** 0642M | **Enclosure:** TEFC |
|---|---|---|

| **Nameplate Data** | | | | **200 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 5 | **Full Load Torque** | 15 LB-FT |
| **Volts** | | | 200 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 15.1 | **Breakdown Torque** | 52.6 LB-FT |
| **R.P.M.** | | | 1750 | **Pull-up Torque** | 21.8 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 30.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | J | **Starting Current** | 104 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 6.71 A |
| **NEMA Nom. Eff.** | 89.5 | **Power Factor** | 79 | **Line-line Res. @ 25ºC** | 0.505 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 53°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 66°C |
| | | | | **Locked-rotor Power Factor** | 40.3 |
| | | | | **Rotor inertia** | 0.391 LB-FT2 |

**Load Characteristics 200 V, 60 Hz, 5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 43 | 64 | 75 | 82 | 84 | 85 | 81 |
| **Efficiency** | 85.5 | 89.9 | 90.2 | 89.8 | 88.4 | 86.6 | 88.9 |
| **Speed** | 1788 | 1777 | 1764 | 1751 | 1736 | 1719 | 1738 |
| **Line amperes** | 7.49 | 9.34 | 11.9 | 14.7 | 18.1 | 21.8 | 17.1 |

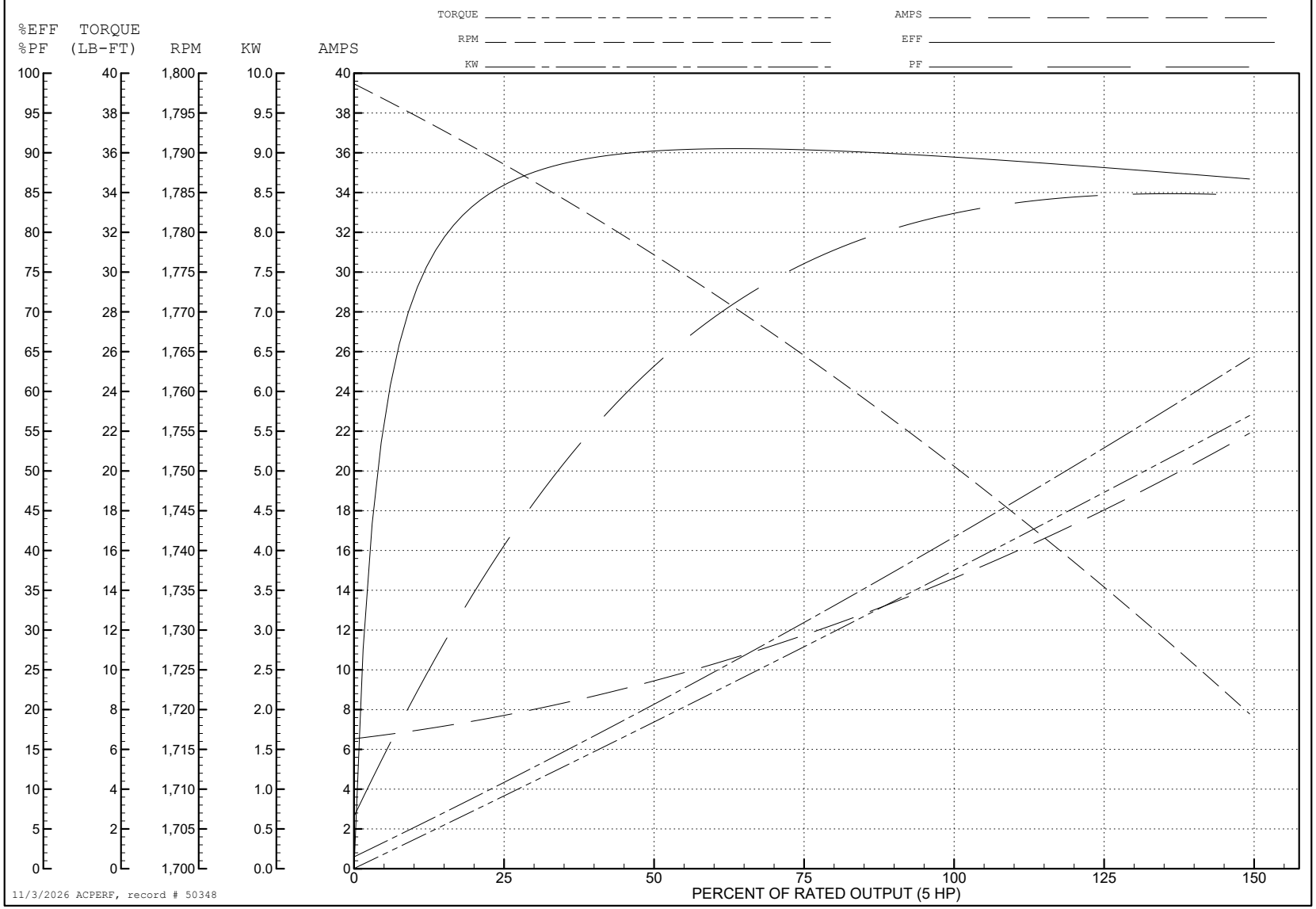
ABB Motors and Mechanical Inc.

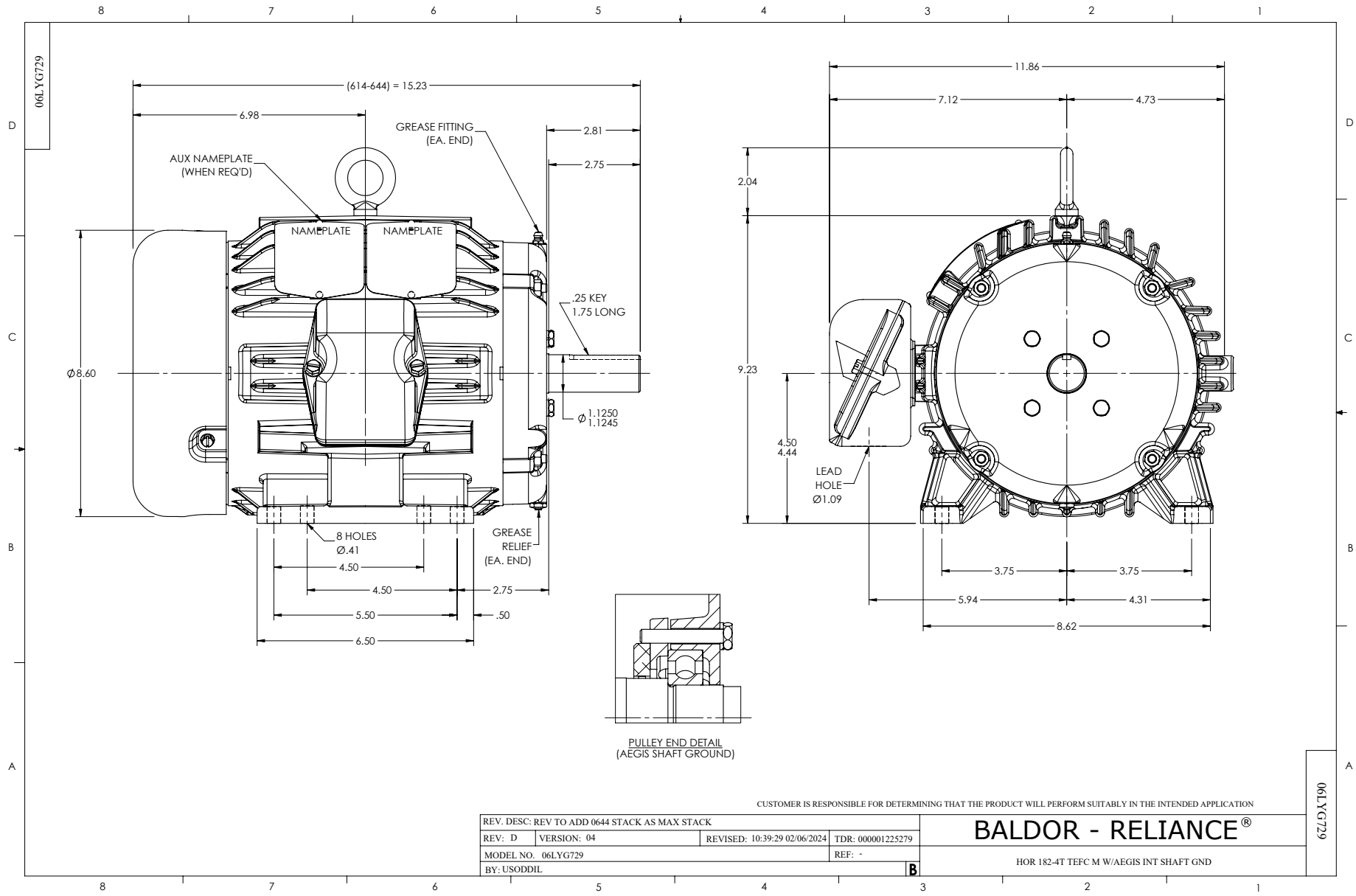
WINDING # 06WGX201

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1750 RPM 200 V 0642M

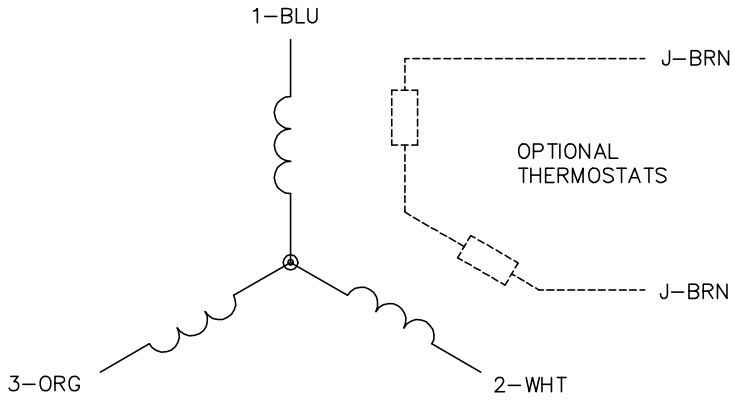
TORQUES(LB-FT): PO=52.6 PU=21.8 LR=30.9 LRA=104

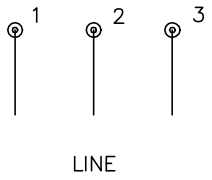



06LYG729
(614-644) = 15.23
6.98
GREASE FITTING
(EA. END)
2.81
2.75
AUX NAMEPLATE
(WHEN REQ'D)
NAMEPLATE
NAMEPLATE
.25 KEY
1.75 LONG
Ø8.60
Ø 1.1250
1.1245
8 HOLES
Ø.41
GREASE
RELIEF
(EA. END)
4.50
4.50
2.75
5.50
.50
6.50
11.86
7.12
4.73
2.04
9.23
4.50
4.44
LEAD
HOLE
Ø1.09
3.75
3.75
5.94
4.31
8.62
PULLEY END DETAIL
(AEGIS SHAFT GROUND)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REV TO ADD 0644 STACK AS MAX STACK
REV: D
VERSION: 04
REVISED: 10:39:29 02/06/2024
TDR: 000001225279
MODEL NO. 06LYG729
REF: -
BY: USODDIL
B
BALDOR - RELIANCE®
HOR 182-4T TEFC M W/AEGIS INT SHAFT GND
06LYG729

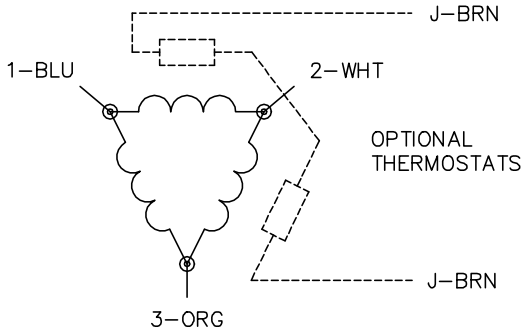
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1