ABB BALDOR RELIANCE

# Customer information packet

## IDVSM3661T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 182TC |
| **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** | 3.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| | CSA |
| **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** | 4.100 A @ 460.0 V |
| | 8.200 A @ 230.0 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** | Encoder/Feedback Device |
| **Front Shaft Indicator** | No Key Or Flat |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 4.1 a |

## Part Detail

| | |
|---|---|
| **Revision** | L |
| **Type** | AC |
| **Mech. spec.** | 06H926 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 06WGX181 |
| **Layout** | 06LYH926 |
| **Eff. date** | 06-18-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#16 |
| **Proprietary** | False |
| **Created date** | 09-05-2012 |

| | |
|---|---|
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Max Speed** | 5400 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 16 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 0632M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 20.23 IN |
| **Power Factor** | 77 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **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** | 1755 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP4615L | | | | | | | |
|---|---|---|---|---|---|---|---|
| **CAT NO** | IDVSM3661T | | | | | | |
| **SPEC.** | 06H926X181G1 | | | | **ENCL** | TEFC | |
| **FRAME** | 182TC | | **HP** | 3 | | | |
| **VOLTS** | 230/460 | | | | | | |
| **MAG CUR** | 4.2/2.1 | | | **FLA** | 8.2/4.1 | | |
| **RPM** | 1755 | | **RPM MAX** | 5400 | | | |
| **HZ** | 60 | **PH** | 3 | **CLASS** | F | | |
| **SER.F.** | 1.00 | | **SL HZ** | 1.5 | | | |
| **NEMA-NOM-EFF** | 89.5 | | **WK2** | 0.3 | | | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **DE BRG** | 6206 | | **ODE BRG** | 6206 | | | |
| **CC** | 010A | **SN** | | | | | |
| | 1.5:1 CHP PWM | | | | | | |
| | 1000:1 CT/VT | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| REL S.O. | IDVSM3661T | VOLTS | 460 | ENCLOSURE | TEFC | WYE CONN EQ CKT OHMS PER PHASE | | | |
| FRAME | 182TC | AMPS | 4.1 | MAX SAFE RPM | 5400 | (AT BASE RATING, 25$^0$C) | | | |
| HP | 3 | DUTY | CONT | In (AMPS) | 2.1 | R1 | 2.0800 | X1 | 5.4900 |
| BASE SPEED | 1760 | S.F. | 1.0 | P.F. @NL/FL | 6/77 | R2 | 1.4800 | X2 | 4.5800 |
| PHASE/HZ | 3/60 | AMB$^0$C/INSUL | 40/F | WK$^2$ (lb-ft$^2$) | 0.298 | | | XM | 119.3000 |

## Rated Full Load Data

| | RPM | HP | Torque | Volts | Freq-Hz | Amps |
|---|---|---|---|---|---|---|
| Base Speed | 1757 | 3.0 | 9.06 | 460 | 60 | 4.10 |
| Max Speed | 2630 | 3.0 | 6.04 | 460 | 90 | 3.90 |
| Min Speed | 0 | 0.0 | 9.06 | 33.37 | 1.43 | 4.10 |

## Load Performance at Base Speed

| | RPM | HP | Torque | Volts | Freq-Hz | Amps |
|---|---|---|---|---|---|---|
| No Load | 1799 | 0.0 | 0.00 | 460 | 60 | 2.10 |
| 1/4 | 1789 | 0.8 | 2.31 | 460 | 60 | 2.34 |
| 1/2 | 1779 | 1.5 | 4.54 | 460 | 60 | 2.79 |
| 3/4 | 1769 | 2.3 | 6.80 | 460 | 60 | 3.39 |
| Full Load | 1757 | 3.0 | 9.06 | 460 | 60 | 4.10 |
| O/L | 1700 | 6.5 | 20.20 | 460 | 60 | 8.50 |

| Blower Data | Volts | Ph/Hz | FL Amps | LR Amps | Frame | CFM |
|---|---|---|---|---|---|---|
| | | | | | | |

Remarks: Calculated Data
Vector PWM Inverter Duty

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CK BY Micheal Williamson
APP BY Micheal Williamson
DATE 8/20/2012

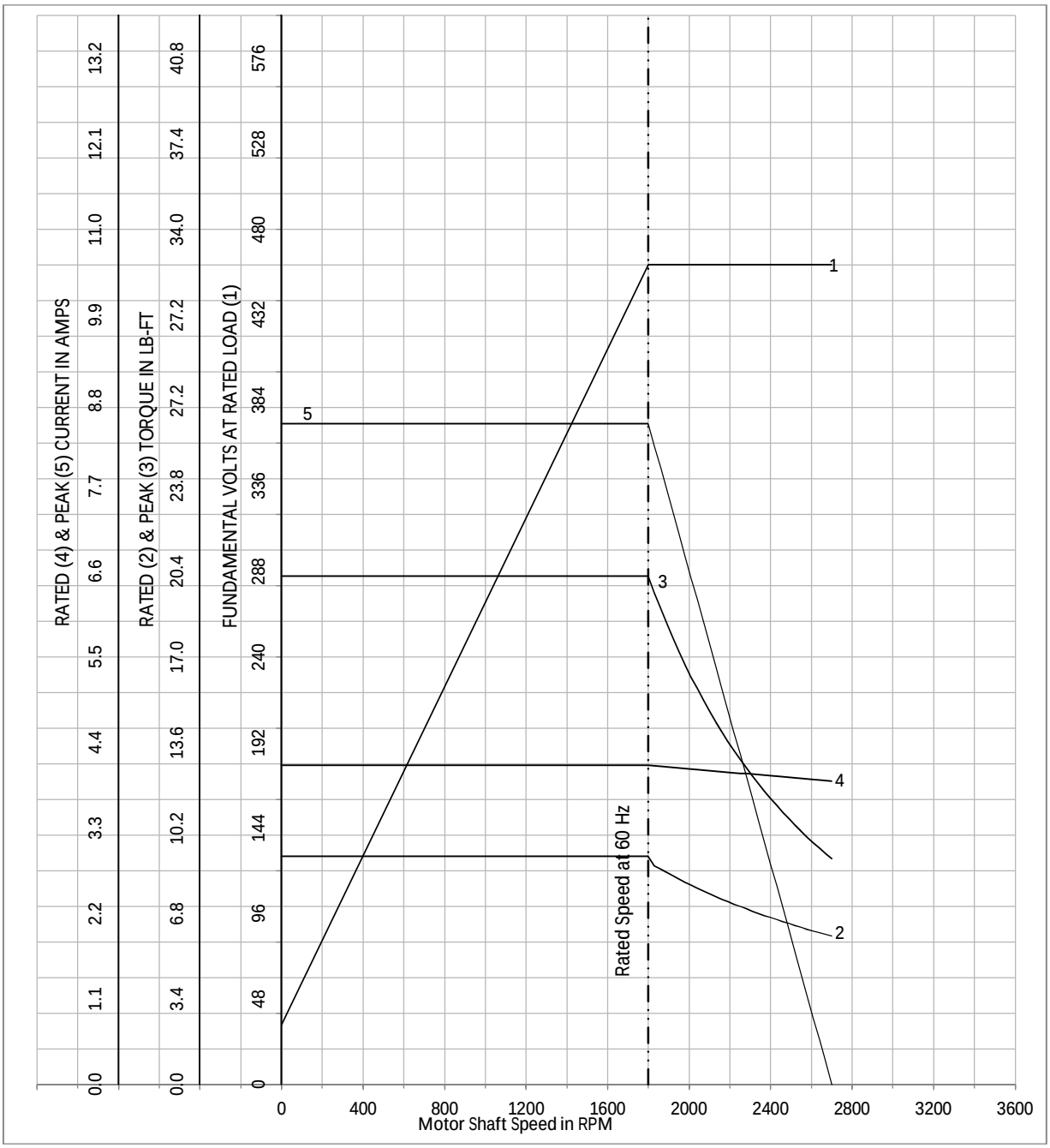
A-C MOTOR PERFORMANCE CURVES

**06G938X181Z1**

ISSUE DATE 8/20/2012

| | | | | | | | | | |
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Vector PWM Inverer Duty
Variable Speed AC Motor Curves



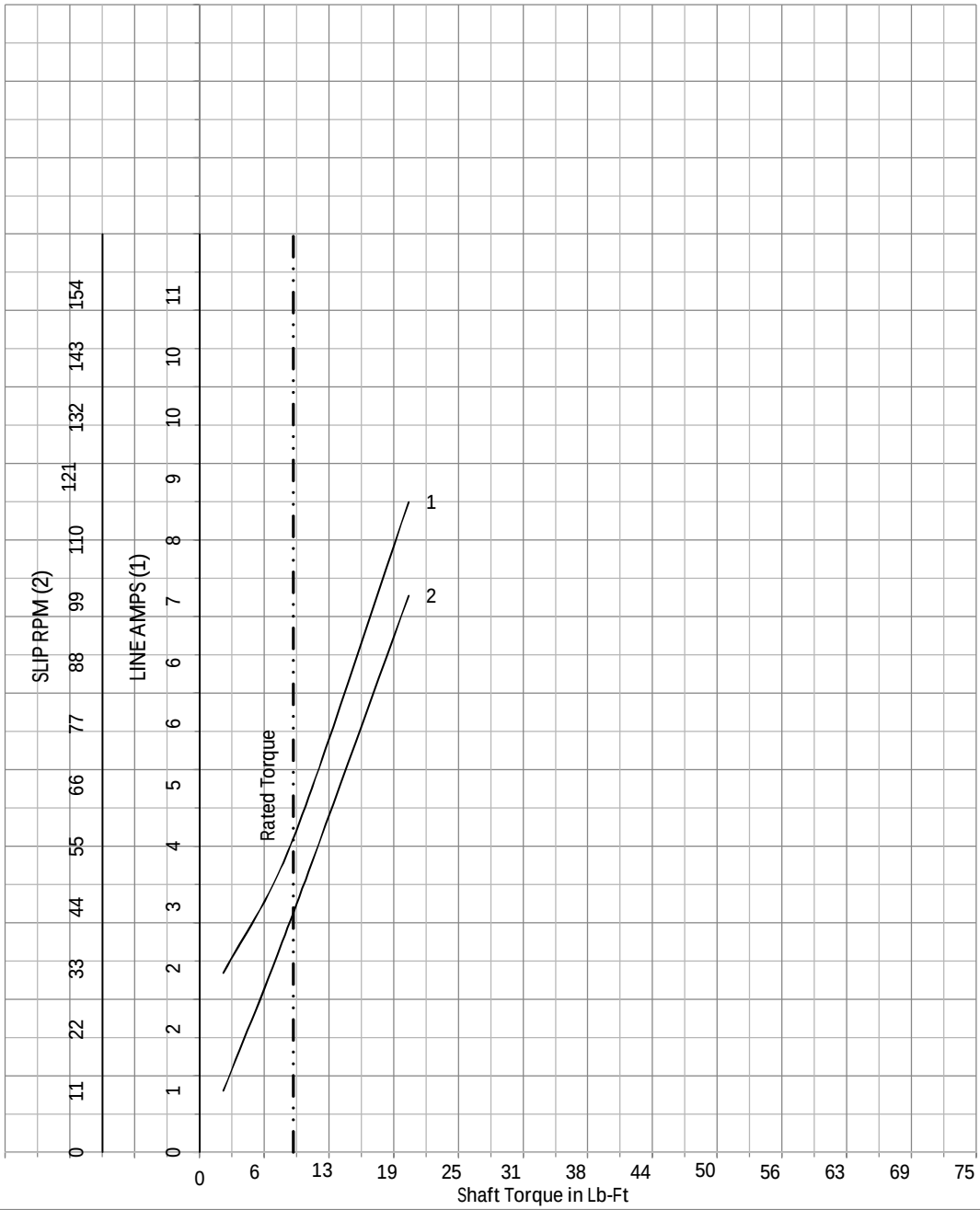

Calculated Data

Data Valid For Nameplate Speed Range only

| | | | |
|---|---|---|---|
| BALDOR A MEMBER OF THE ABB GROUP | DR BY Micheal Williamson<br>CK BY Micheal Williamson<br>APP BY Micheal Williamson<br>DATE 8/20/2012 | A-C MOTOR PERFORMANCE CURVES | 06G938X181Z1<br>SH 1 of 2<br>ISSUE DATE 8/20/2012 |

| | | | | | | | | | |
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Vector PWM Inverer Duty
Variable Speed AC Motor Curves




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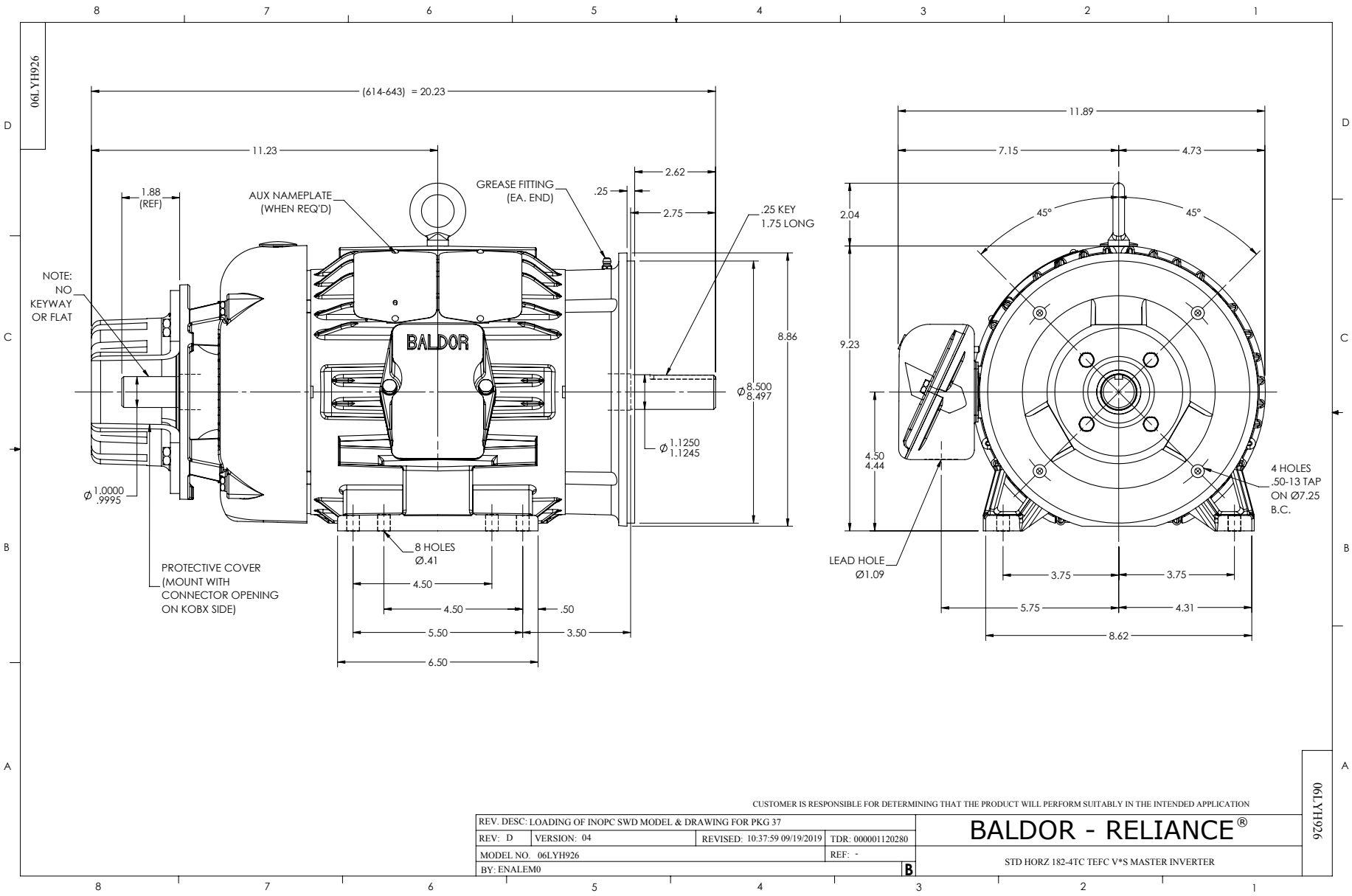
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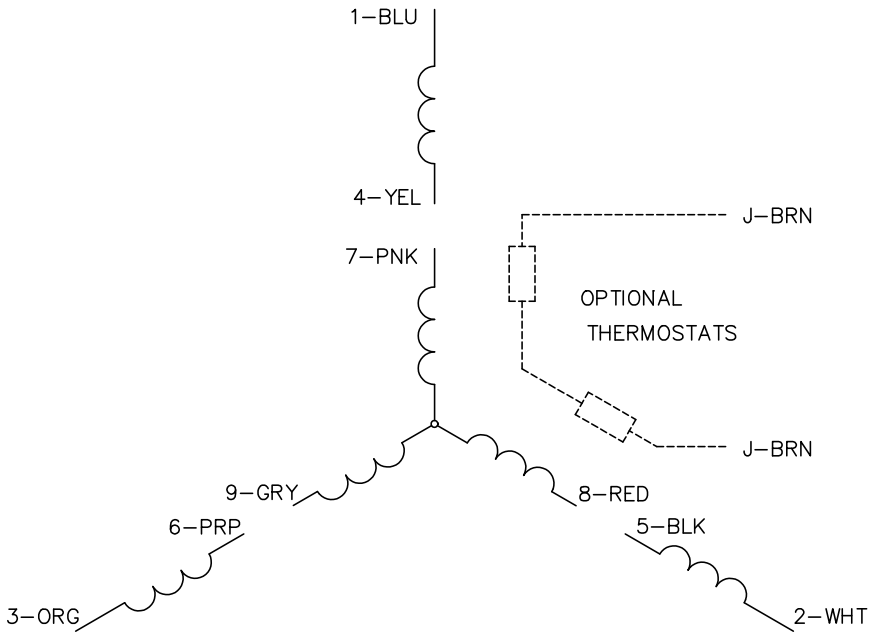
A-C MOTOR
PERFORMANCE CURVES

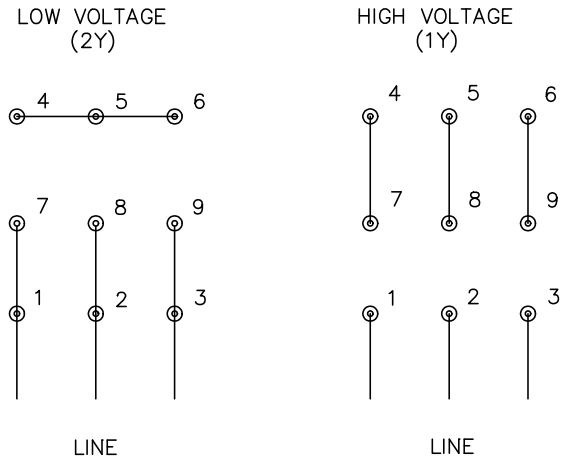
**06G938X181Z1**

SH 1 of 2
ISSUE DATE 8/20/2012


06LYH926
(614-643) = 20.23
11.23
1.88 (REF)
AUX NAMEPLATE (WHEN REQ'D)
GREASE FITTING (EA. END)
.25
2.62
2.75
.25 KEY 1.75 LONG
NOTE: NO KEYWAY OR FLAT
BALDOR
8.86
Ø 8.500 8.497
Ø 1.1250 1.1245
Ø 1.0000 .9995
PROTECTIVE COVER (MOUNT WITH CONNECTOR OPENING ON KOBX SIDE)
8 HOLES Ø.41
4.50
4.50
.50
5.50
3.50
6.50
11.89
7.15
4.73
2.04
45°
45°
9.23
4.50 4.44
4 HOLES .50-13 TAP ON Ø7.25 B.C.
LEAD HOLE Ø1.09
3.75
3.75
5.75
4.31
8.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 37
REV: D
VERSION: 04
REVISED: 10:37:59 09/19/2019
TDR: 000001120280
MODEL NO. 06LYH926
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 182-4TC TEFC V*S MASTER INVERTER
06LYH926

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 |