ABB BALDOR RELIANCE

# Customer information packet

P21G639

5HP, 1165RPM, 3PH, 60HZ, L215T, A21040M, TEFC
Class - CLI GP D; CLII GP E,F,G
Division - Division I

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11/20/2026 1:05:08 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | L215T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP E,F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 5.000 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** | UL |
| | CSA |
| | CSA EEV |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Current @ Voltage** | 6.800 A @ 460.0 V |
| | 13.600 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 89.5 % |
| **Feedback Device** | NO FEEDBACK |
| **Frame Prefix** | L |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 6.8 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |

## Part Detail

| | |
|---|---|
| **Revision** | F |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | INA/A |
| **Elec. spec.** | A21WG0803 |
| **Layout** | 617428-049 |
| **Eff. date** | 09-29-2015 |
| **CD Diagram** | 416820-001 |
| **Poles** | 06 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 11-18-2010 |

| | |
|---|---|
| **KVA Code** | J |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A21040M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 6 |
| **Overall Length** | 20.20 IN |
| **Power Factor** | 77 |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 0.000 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | Shaft Slinger |
| **Speed** | 1165 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |

**Nameplate**

| 000613006PC | |
|---|---|
| **CLASS I GROUP** | D X X |
| **CLASS II GROUP** | E F G |
| **OPERATING TEMP CODE** | T3C |

| 000613007EW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | | | | **SPEC NO.** | P21G639 | | | | | | |
| **HP** | 5 | **AMPS** | 13.6/6.8 | **VOLTS** | 230/460 | | | **DESIGN** | B | | |
| **FRAME** | L215T | **RPM** | 1165 | **HZ** | 60 | **AMB** | 40 | **SF** | 1.15 | | |
| **DRIVE END BEARING** | 40BC02J30X | **PH** | 3 | **DUTY** | CONT | **INSUL.CLASS** | F | | | | |
| **OPP D.E. BEARING** | 30BC02J30X | **TYPE** | P | **ENCL** | TEFC | **CODE** | J | | | | |
| **D.E.BRG.DATA** | 6208 | **POWER FACTOR** | 76.9 | **NEMA NOM EFFICIENCY** | 89.5 | | | | | | |
| **O.D.E.BRG.DATA** | 6206 | **MAX CORR KVAR** | 02.0 | **GUARANTEED EFFICIENCY** | 87.5 | | | | | | |
| **3/4 LOAD EFF.** | 90.2 | **NEMA NOM/CSA QUOTED EFF** | | | | | | | | | |
| **SER.NO.** | | **MOTOR WEIGHT** | 234 | | | | | | | | |

| 000692000FX |
|---|
| |

| REL. S.O. | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | L215T | 5 | P | 3/60 | 1165 | 230/460 |

| AMPS | DUTY | AMB °C/ INSUL. | S.F. | NEMA DESIGN | CODE LETTER | ENCL. |
|---|---|---|---|---|---|---|
| 13.6/6.8 | CONT | 40/F | 1.15 | B | J | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES.@25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 584983 | 418425-40DE | --- | --- | .620/2.48 |

PERFORMANCE

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 3.3 | 1200 | 5.57 | 0 |
| 1/4 | 1.25 | 3.6 | 1192 | 38.2 | 85.1 |
| 2/4 | 2.50 | 4.4 | 1184 | 59.8 | 89.7 |
| 3/4 | 3.75 | 5.5 | 1175 | 71.0 | 90.2 |
| 4/4 | 5.00 | 6.8 | 1165 | 76.9 | 89.5 |
| 5/4 | 6.25 | 8.3 | 1153 | 79.8 | 88.1 |
| | | | | | |

SPEED TORQUE

| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 170 | 38.3 | 46.0 |
| PULL UP | 200 | 160 | 36.1 | 44.0 |
| BREAKDOWN | 1000 | 307 | 69.2 | 28.0 |
| FULL LOAD | 1165 | 100 | 22.5 | 6.8 |

AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA
XE MOTOR - NEMA NOM. EFF. 89.5%
RELIANCE - RGP

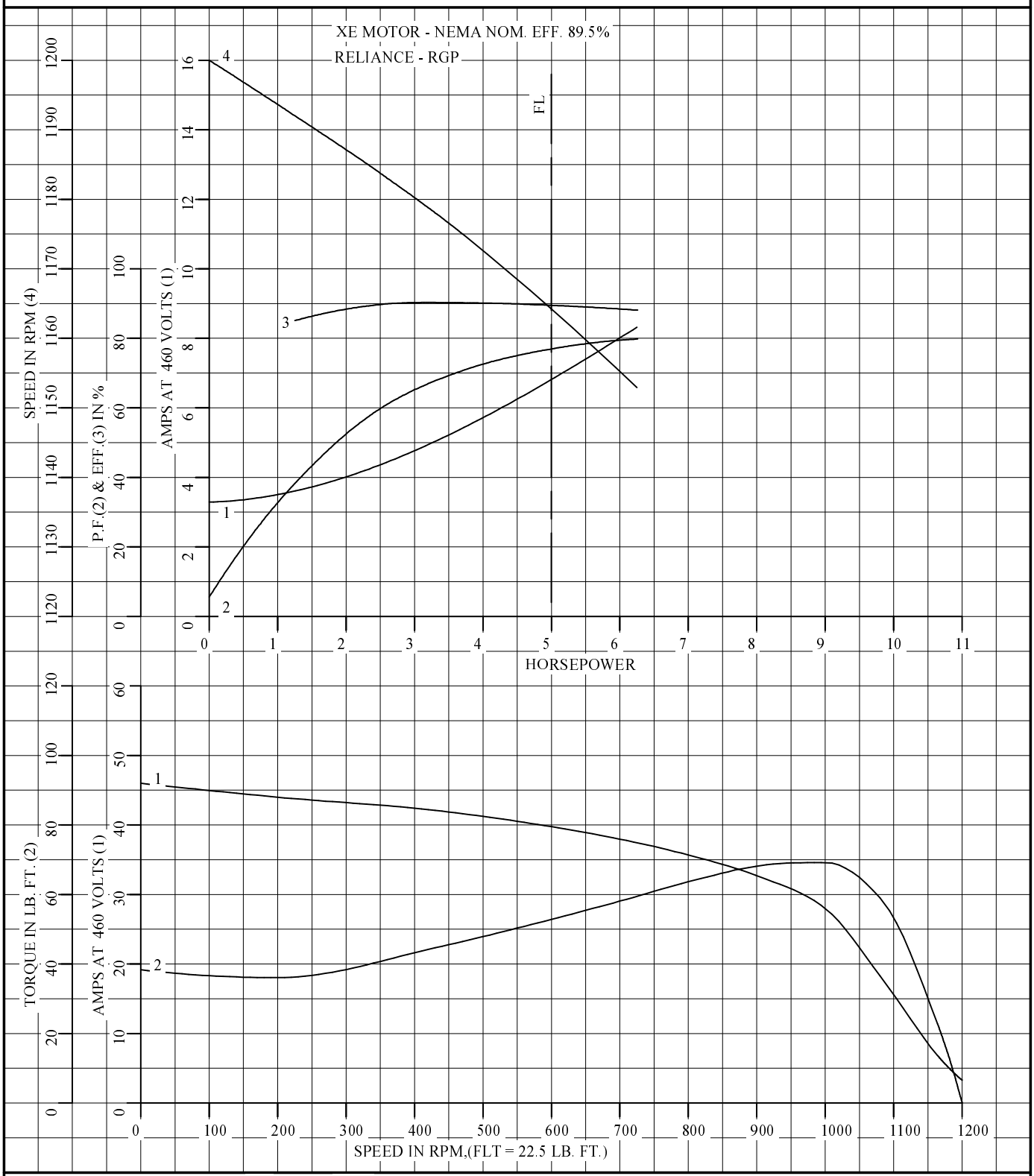
BALDOR

DR. BY A. T. LONG
CK. BY R. H. KIRK
APP. BY R. A. BRYANT
DATE 05/08/96

A-C MOTOR PERFORMANCE DATA

A21WG0803-R001
ISSUE DATE 12/08/10

| | | | |
|---|---|---|---|
| FRAME L215T | RPM 1165 | S.F. 1.15 | ROTOR 418425-40DE |
| HP 5 | VOLTS 230/460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| TYPE P | AMPS 13.6/6.8 | CODE LETTER J | TEST DATE --- |
| PHASE/HERTZ 3/60 | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 ℃ .620/2.48 |
| | AMB ℃/INSUL 40/F | E/S 584983 | OHMS (BETWEEN LINES) |




AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

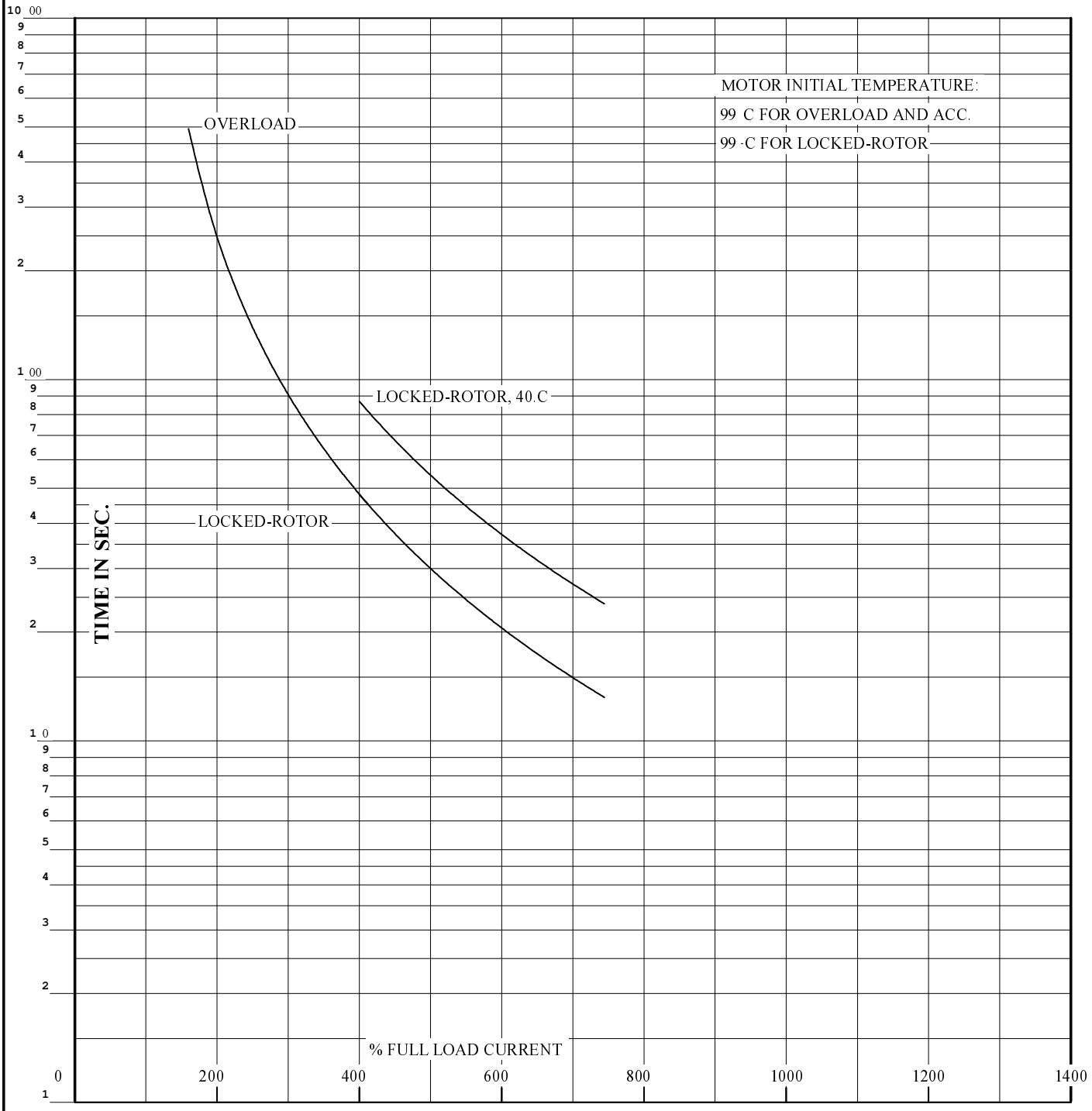
BALDOR

DR. BY A. T. LONG
CK. BY R. H. KIRK
APP. BY R. A. BRYANT
DATE 05/08/96

**A-C MOTOR PERFORMANCE CURVES**

A21WG0803-R001
ISSUE DATE 12/08/10

| | | | |
|---|---|---|---|
| REL. S.O. | RPM 1165 | S.F. 1.15 | ROTOR 418425-40DE |
| FRAME L215T | VOLTS 230/460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| HP 5 | AMPS 13.6/6.8 | CODE LETTER J | TEST DATE --- |
| TYPE P | DUTY CONT | ENCLOSURE TEFC | STATOR RES.@ 25 ℃.620/2.48 |
| PHASE/HERTZ 3/60 | AMB ℃/INSUL 40/F | E/S 584983 | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE

**REMARKS:** XE MOTOR - NEMA NOM. EFF. 89.5%

RELIANCE - RGP

**AMPERES SHOWN FOR** 460 **VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.**

BALDOR

| | |
|---|---|
| DR. BY | A. T. LONG |
| CK. BY | R. H. KIRK |
| APP. BY | R. A. BRYANT |
| DATE | 05/08/96 |

**A-C MOTOR PERFORMANCE CURVES** A21WG0803-R001 ISSUE DATE 12/08/10

617428-049

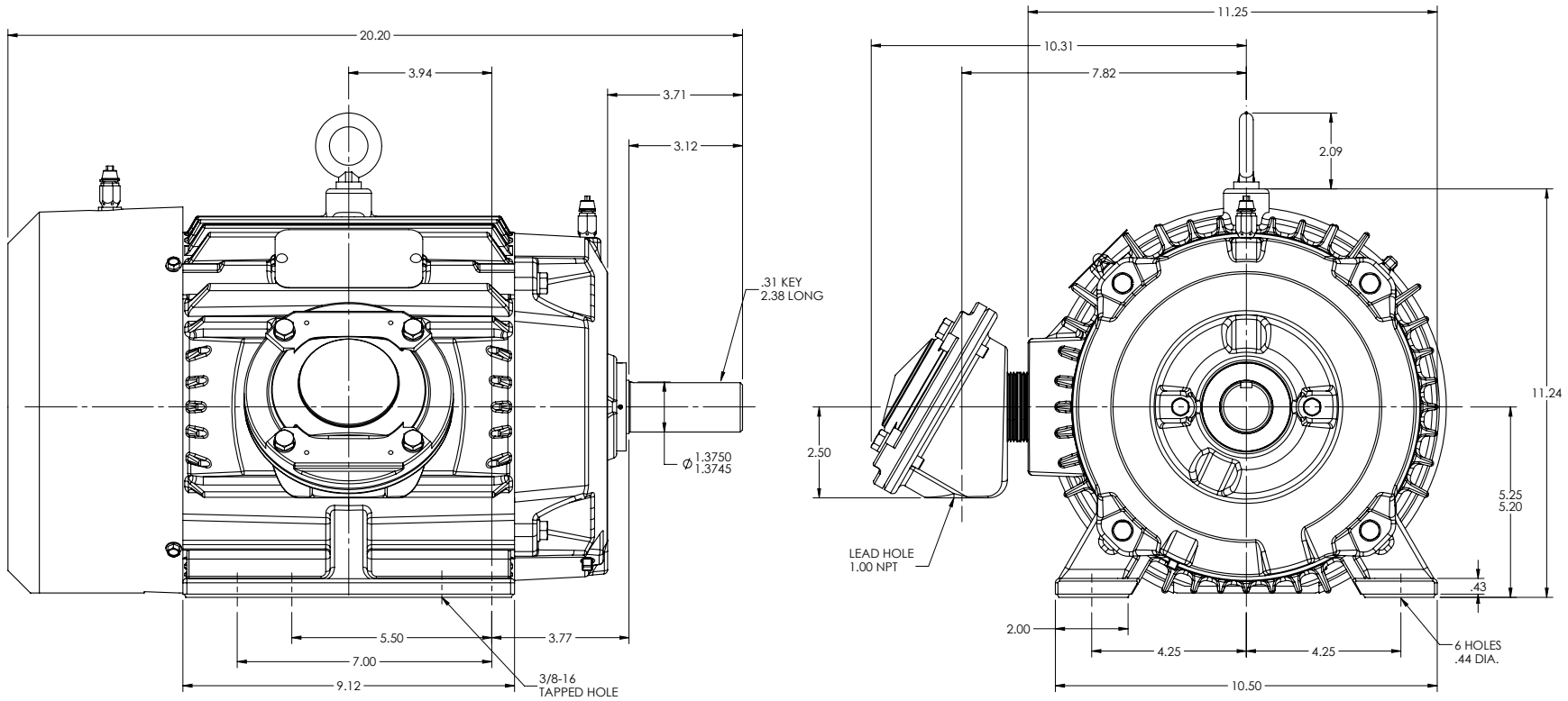
# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES XL213T-XL215T

COOLING: FAN COOLED




MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

WEIGHT (LBS): XL213T = 170
XL215T = 180

MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO BUS | | | |
| REV: - | VERSION: 00 | REVISED: 07:58:26 10/31/2013 | TDR: 000000823445 |
| MODEL NO. 617428-049 | | | REF: |
| BY: ENALEM0 | | | B |

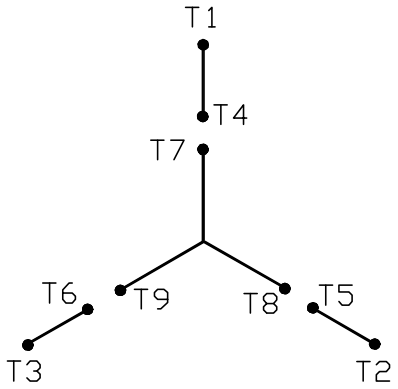
BALDOR

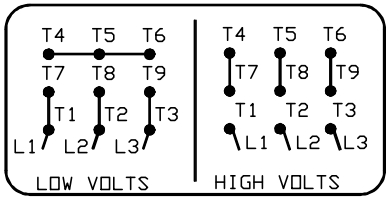
DIM SHEET X213T-XL215T TEFC (613053-501)

617428-049

416820-001

# A-C MOTOR
# CONNECTION DIAGRAM
## STANDARD 9 LEAD Y CONNECTED




(N. P. 1575-A)

416820-001

| | | |
|---|---|---|
| REV. DESC: FONT CHANGE FOR PDF SEARCHABLE | | |
| REV. LTR: A | VERSION: 01 | TDR: 000001009382 |
| FILE: \MGA\00000\659 | REVISED: 10:33:07 12/21/2016 | BY: MGHMTT |
| MTL: – | | |

BALDOR

CONN DIAG – STANDARD 9 LEAD, Y CONNECTED

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