ABB BALDOR RELIANCE

# Customer information packet

## ECP4313T-4

75HP, 3555RPM, 3PH, 60HZ, 365TS, A36068M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 365TS |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP A,B,C,D |
| **Haz Area Division** | Division II |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 75.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 460.0 V @ 60 HZ |
| **Agency Approvals** | CCSAUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Constant Torque Speed Range** | 10-60 |
| **Current @ Voltage** | 80.700 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 94.5 % |
| **Feedback Device** | NO FEEDBACK |
| **Haz Area Temp Code** | T3 |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 80.7 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Ready |
| **KVA Code** | F |

## Part Detail

| | |
|---|---|
| **Revision** | Y |
| **Type** | AC |
| **Mech. spec.** | |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | A36WG0179 |
| **Layout** | 617428-036 |
| **Eff. date** | 08-26-2024 |
| **CD Diagram** | 416820-036 |
| **Poles** | 02 |
| **Leads** | 3#2 |
| **Proprietary** | False |
| **Created date** | 10-19-2010 |

| | |
|---|---|
| **Lifting Lugs** | No Lifting Lugs |
| **Max Speed** | 4500 rpm |
| **Motor Lead Quantity/Wire Size** | 3 @ 2 AWG |
| **Motor Standards** | NEMA |
| **Motor Type** | A36068M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 31.37 IN |
| **Power Factor** | 92 |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.875 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3555 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | None |

**Nameplate**

**NP4033LUA**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT #** | ECP4313T-4 | | | **SER** | | | | **CC** | 010A | | | | | | | | | | |
| **SPEC** | P36G398 | | | **RATING** | 40C AMB-CONT | | | | | | | | | | | | | | |
| **HZ** | **VOLTS** | | **AMPS** | | **RPM** | **HP** | **CODE** | - | **SF** | | **DES** | | **PF** | | **NEMA NOM. EFF** | | | | |
| 60 | 460 | | 80.7 | | 3555 | 75 | F | | 1.15 | | B | | 92 | % | 94.5 | % | | | |
| | | | | | | | | | | | | | | % | | % | | | |
| **PH** | 3 | **CL** | F | **MAX RPM** | 4500 | | **MAX CORR KVAR** | 5 | | | | | | | | | | | |
| **BRG** | **DE** | 6313 | **ODE** | 6313 | **ENCL** | TEFC | **FR** | 365TS | | **IP** | 55 | | | | | | | | |
| **GREASE** | POLYREX EM | | | | | | **MTR WT** | 959 | **LBS** | | | | | | | | | | |
| | | **CL I DIV 2 GRPS A,B,C,D** | | | **CL I ZONE 2 GRPS** | | | **IIA,IIB,IIC** | | | **TEMP T** | 200 | **C** | | | | | | |
| **INV READY** | **CT** | 15-60 | **HZ** | 4:1 | **VT** | 0-60 | **HZ** | 1000:1 | **CHP** | 60-75 | **HZ** | 1.25:1 | | | | | | | |
| **INV TEMP CL** | 200 | **C** | **USABLE AT** | 50HZ 60HP 380V 78A | | | | | | SF1.0 | | | | | | | | | |

| S/O | FRAME | HP | TYPE | PHASE/ HERTZ | RPM | VOLTS |
|---|---|---|---|---|---|---|
| | 365TS | 75 | P | 3/60 | 3555 | 460 |

| AMPS | DUTY | AMB °C/ INSUL | S.F. | NEMA DESIGN | CODE LETTER | ENCLOSURE |
|---|---|---|---|---|---|---|
| 80.7 | CONT | 40/F | 1.15 | B | F | TEFC |

| E/S | ROTOR | TEST S.O. | TEST DATE | STATOR RES. @25 °C OHMS (BETWEEN LINES) |
|---|---|---|---|---|
| 892018 | 418141005TE | --- | --- | .0744 |

**PERFORMANCE**

| LOAD | HP | AMPERES | RPM | % POWER FACTOR | % EFFICIENCY |
|---|---|---|---|---|---|
| NO LOAD | 0 | 15.9 | 3600 | 8.69 | 0 |
| 1/4 | 18.8 | 24.5 | 3589 | 77.9 | 92.0 |
| 2/4 | 37.5 | 40.2 | 3578 | 92.2 | 94.8 |
| 3/4 | 56.2 | 58.6 | 3567 | 94.3 | 95.3 |
| 4/4 | 75.0 | 78.9 | 3555 | 93.6 | 95.1 |
| 5/4 | 93.8 | 101 | 3542 | 92.2 | 94.6 |
| | | | | | |

**SPEED TORQUE**

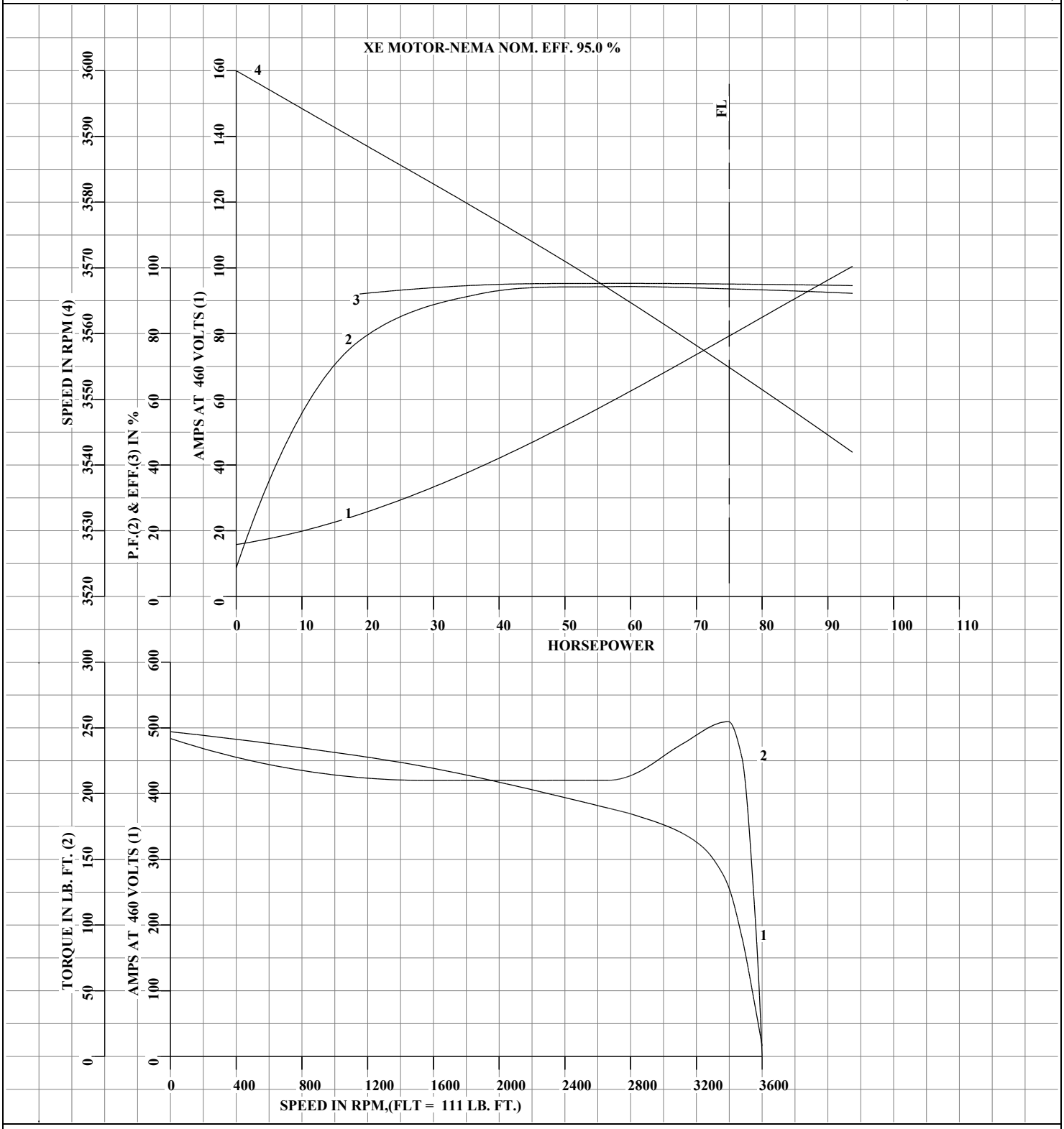
| | RPM | TORQUE % FULL LOAD | TORQUE LB.-FT. | AMPERES |
|---|---|---|---|---|
| LOCKED ROTOR | 0 | 218 | 242 | 494 |
| PULL UP | 1565 | 190 | 210 | 440 |
| BREAKDOWN | 3395 | 230 | 255 | 259 |
| FULL LOAD | 3555 | 100 | 111 | 78.9 |

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

**TYPICAL DATA**
**XE MOTOR-NEMA NOM. EFF. 95.0 %**

| | | | |
|---|---|---|---|
| ABB | DRAWN BY: G. R. WEBB<br>CHECKED BY: C. E. JAMISON<br>APPROVED BY: C. E. JAMISON<br>DATE: 12/09/15 | AC MOTOR PERFORMANCE DATA | A36WG0179-R007<br>DATE ISSUED 12/18/15 |

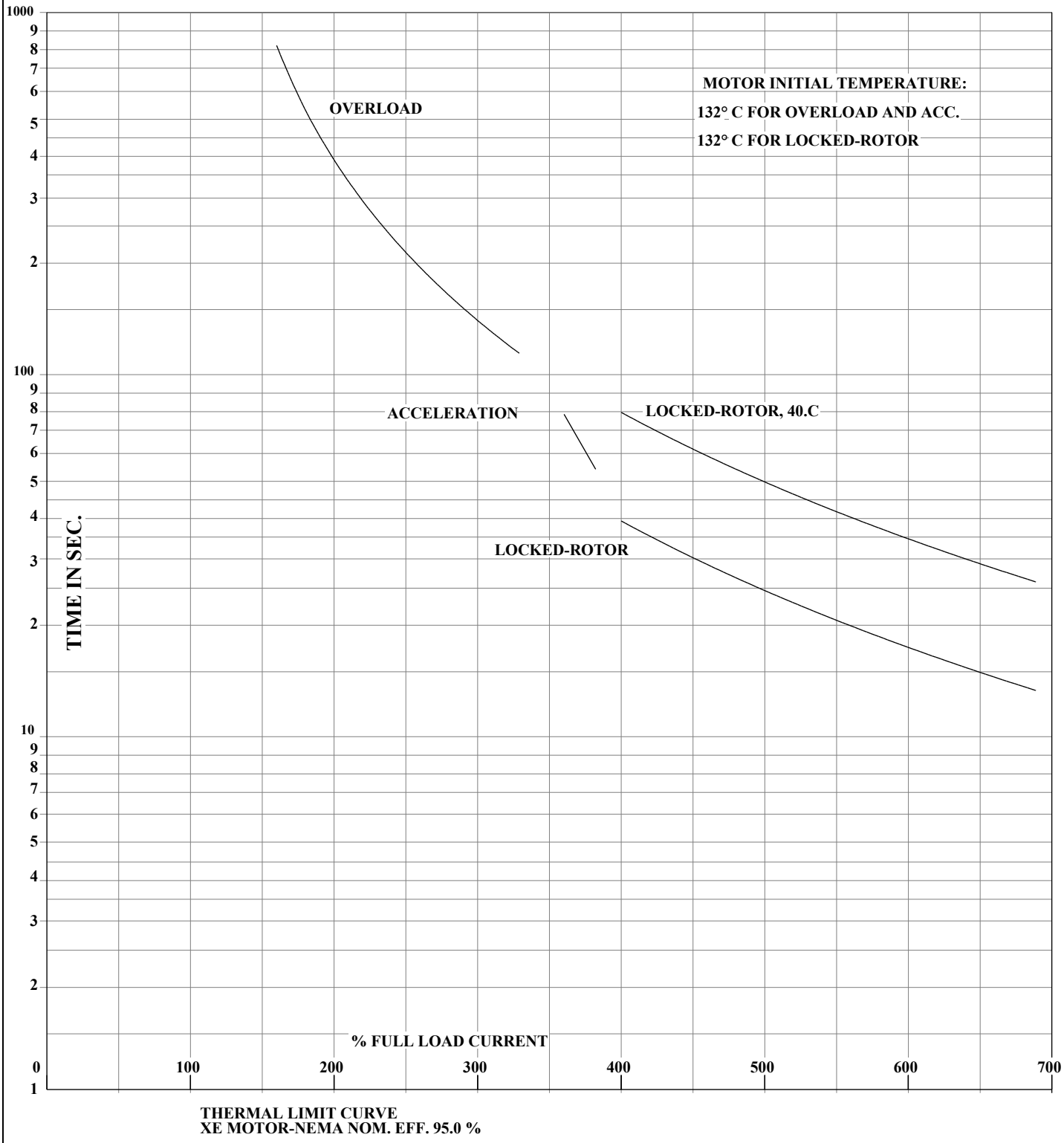
| | | | |
|---|---|---|---|
| FRAME 365TS | RPM 3555 | S.F. 1.15 | ROTOR 418141005FE |
| HP 75 | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| TYPE P | AMPS 80.7 | CODE LETTER F | TEST DATE --- |
| PHASE / HERTZ 3/60 | DUTY CONT | ENCLOSURE TEFC | STATOR RES. @ 25°C .0744 |
| | AMB °C / INSUL 40/F | E/S 892018 | OHMS (BETWEEN LINES) |




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

| | | | |
|---|---|---|---|
| ABB | DRAWN BY: G. R. WEBB<br>CHECKED BY: C. E. JAMISON<br>APPROVED BY: C. E. JAMISON<br>DATE: 12/09/15 | AC MOTOR PERFORMANCE DATA | A36WG0179-R007<br>ISSUE DATE 12/18/15 |

| | | | |
|---|---|---|---|
| FRAME 365TS | RPM 3555 | S.F. 1.15 | ROTOR 418141005FE |
| HP 75 | VOLTS 460 | NEMA DESIGN B | TEST S.O. TYPICAL DATA |
| TYPE P | AMPS 80.7 | CODE LETTER F | TEST DATE --- |
| PHASE / HERTZ 3/60 | DUTY CONT | ENCLOSURE TEFC | STATOR RES. @ 25°C .0744 |
| | AMB °C / INSUL 40/F | E/S 892018 | OHMS (BETWEEN LINES) |




THERMAL LIMIT CURVE
XE MOTOR-NEMA NOM. EFF. 95.0 %

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

| | | | |
|---|---|---|---|
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617428-036

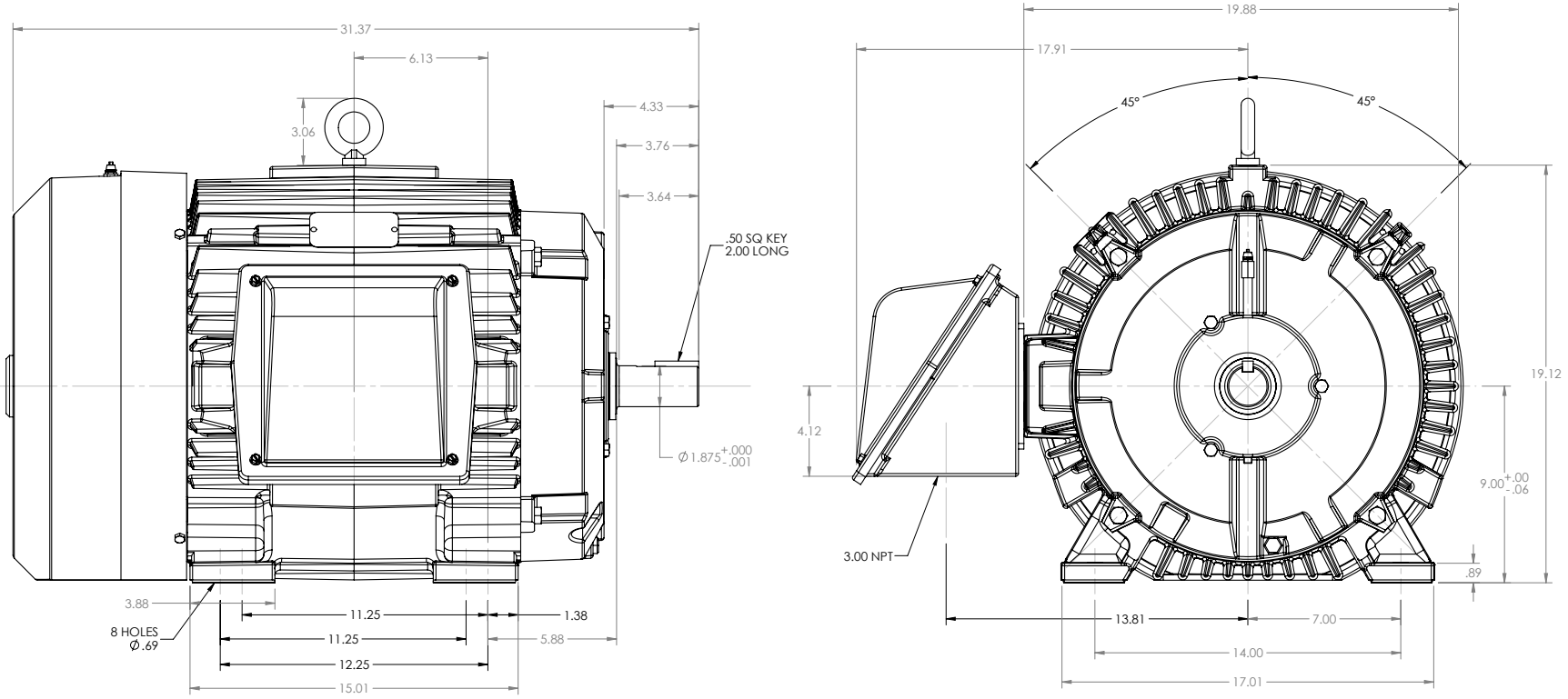
# DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

FRAMES 364TS-365TS

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): 364TS = 859
365TS = 884

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: UPDATING SHAFT AND CORRECTING BA DIMENSION | | | |
| REV: A | VERSION: 01 | REVISED: 11:06:08 03/28/2014 | TDR: 000000846122 |
| MODEL NO. 617428-036 | | | REF: |
| BY: RAGJSS1 | | | B |

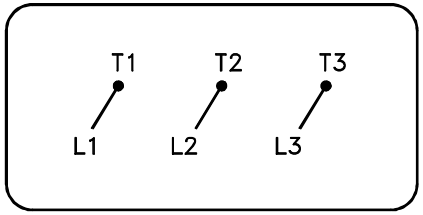
BALDOR

DIM SHEET HOR 364-5TS TEFC XT

617428-036

416820–036

# A–C MOTOR
# CONNECTION DIAGRAM
## STANDARD 3 LEAD CONNECTED




(N.P. 1575–BA)

416820–036

| | | | |
|---|---|---|---|
| REV. DESC: LOADED TO BUS, C/R 335225 | | | BALDOR |
| REV. LTR: – | VERSION: 00 | TDR: 000000538207 | |
| FILE: \MGA\00000\682 | | REVISED: 11:54:06 04/30/2010 | CONN DIAG – STANDARD 3 LEAD |
| MTL: – | | BY: RAGRA | SH 1 of 1 |