

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **ECP84406T-4**

**150HP,1785RPM,3PH,60HZ,445T,A4488M,TEFC**

| Part Detail |       |                |        |             |           |               |            |
|-------------|-------|----------------|--------|-------------|-----------|---------------|------------|
| Revision:   | J     | Status:        | PRD/A  | Change #:   |           | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | A4488M | Elec. Spec: | A44WG3335 | CD Diagram:   | 416820-036 |
| Enclosure:  | TEFC  | Mfg Plant:     |        | Mech. Spec: |           | Layout:       | 617427-061 |
| Frame:      | 445T  | Mounting:      | F1     | Poles:      | 04        | Created Date: | 08-13-2012 |
| Base:       |       | Rotation:      | PS     | Insulation: | F         | Eff. Date:    | 05-23-2016 |
| Leads:      | 3#1/0 |                |        |             |           | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |        |             |           |               |            |

## Nameplate NP3237

|                    |             |                 |          |               |      |
|--------------------|-------------|-----------------|----------|---------------|------|
| CAT NO             | ECP84406T-4 | SPEC NO.        | P44G3968 |               |      |
| HP                 | 150         | AMPS            | 169      | VOLTS         | 460  |
| FRAME SIZE         | 445T        | RPM             | 1785     | HZ            | 60   |
| D.E. BRG.DATA      | 6318        | O.D.E. BRG.DATA | 6318     | PH            | 3    |
| D.E. BRG.          | 90BC03J30X  | TYPE            | P        | ENCL          | TEFC |
| O.D.E. BRG.        | 90BC03J30X  | POWER FACTOR    | 86       | CODE          | F    |
| 3/4 LOAD EFF.      | 96.1        | IP              | 56       | MAX CORR KVAR | 30.0 |
| TEMP CODE          | T3          | TEMP            | = 200    |               |      |
| CHP HZ             | 60-90       | CT HZ           | 15-60    | VT HZ         | 0-60 |
| INVERTER-TEMP-CODE | T3          |                 |          |               |      |
| SER.NO.            |             | MOTOR WEIGHT    | 1826     |               |      |

|                       |      |             |   |
|-----------------------|------|-------------|---|
| DESIGN                | B    |             |   |
| SF                    | 1.15 |             |   |
| DUTY                  | CONT | INSUL.CLASS | F |
| NEMA-NOM-EFFICIENCY   | 95.8 |             |   |
| GUARANTEED EFFICIENCY | 95.0 |             |   |

|                       |             |                          |            |
|-----------------------|-------------|--------------------------|------------|
| Nameplate 000613007EX |             |                          |            |
| CAT NO                | ECP84406T-4 | SPEC NO.                 | P44G3968   |
| NO. ROTOR BARS        | 58          | GREASE TYPE              | POLYREX EM |
| NO. SLOTS             | 72          | NL AMPS AT RATED VOLTAGE | 48.9       |
| 5 YEAR WARRANTY       |             | WINDING RES @25 C        | .02982     |
| MFG. DATE             |             | SER.NO                   |            |
|                       |             |                          |            |
|                       |             |                          |            |
|                       |             |                          |            |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA249395    | SA P44G3968                              | 1.000 EA |
| RA236260    | RA P44G3968                              | 1.000 EA |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABLE    | 1.000 EA |
| NP3237      | SS SUPER E INVERTER DUTY IEEE 841        | 1.000 EA |
| 000613007EX | SS IEEE 841 EMBOSSED AUXILIARY NAMEPLATE | 1.000 EA |
| 000692000FF | N/P                                      | 1.000 EA |
| 000692000JP | N/P                                      | 1.000 EA |
| 000692000VD | LABEL WARNING                            | 1.000 EA |
| 000692000VH | N/P                                      | 1.000 EA |
| 421948051   | LABEL, MYLAR                             | 1.000 EA |
| 004824015A  | GREASE POLYREX EM                        | 1.160 LB |
| 032018008CK | HHCS 3/8-16X1L PLATED                    | 4.000 EA |
| 032018020FK | HHCS 3/4-10X2-1/2 PLTD.                  | 4.000 EA |
| 032018036DK | HHCS 1/2-13X4-1/2 PLTD.                  | 3.000 EA |
| 032620016LA | SOCKET SET SCREW-449                     | 3.000 EA |
| 034017014AB | LCKW 3/8 STD. PLATED                     | 4.000 EA |
| 034180014DA | KEY 1/4X1/4X1-3/4 L                      | 1.000 EA |
| 034530072AB | P/NIP 1/8X9"L Threaded both ends         | 1.000 EA |
| 034530072BB | PIPE NIPPLE,DE - 440-BS                  | 1.000 EA |
| 034600001AA | BUSH 1/4TO1/8 BLACK                      | 1.000 EA |
| 034630002AB | CPLG 1/4" PLATED                         | 1.000 EA |
| 034690005AB | PPLG 3/4 PLATED                          | 2.000 EA |
| 035000001G  | GREASE RELIEF FITTING, ALEMITE 317400    | 1.000 EA |
| 089490099D  | G28 BRKT 089490098WCA                    | 1.000 EA |

| Parts List (continued) |                                       |          |
|------------------------|---------------------------------------|----------|
| Part Number            | Description                           | Quantity |
| 412118006A             | DRAIN                                 | 1.000 EA |
| 078548001R             | FAN KB 234/150 (84) 400               | 1.000 EA |
| 083199082RA            | G28 SHORT FAN COVER W/BAFFLE ASSEMBLY | 1.000 EA |
| 089490099D             | G28 BRKT 089490098WCA                 | 1.000 EA |
| 410700004A             | WSHR                                  | 1.000 EA |
| 412118006A             | DRAIN                                 | 1.000 EA |
| 415028021L             | SEAL - 449                            | 1.000 EA |
| 415072001B             | CLAMP                                 | 1.000 EA |
| 415096002A             | CPLG 1/8 HEX TYPE                     | 1.000 EA |
| 423709011D             | WASHER                                | 3.000 EA |
| 032018004BK            | HHCS 5/16-18X1/2 PLATED               | 3.000 EA |
| 032018020FK            | HHCS 3/4-10X2-1/2 PLTD.               | 4.000 EA |
| 032018036DK            | HHCS 1/2-13X4-1/2 PLTD.               | 3.000 EA |
| 034017013AB            | LCKW 5/16 STD. PLATED                 | 3.000 EA |
| 415915007G             | GASK, LAC                             | 1.000 FT |
| 034530044AB            | P/NIP 1/8X5-1/2L GALV.                | 1.000 EA |
| 034530044BB            | P/NIP 1/4X5-1/2L PLT                  | 1.000 EA |
| 034600001AA            | BUSH 1/4TO1/8 BLACK                   | 1.000 EA |
| 034630002AB            | CPLG 1/4" PLATED                      | 1.000 EA |
| 035000001G             | GREASE RELIEF FITTING, ALEMITE 317400 | 1.000 EA |
| 415028021L             | SEAL - 449                            | 1.000 EA |
| 415096002A             | CPLG 1/8 HEX TYPE                     | 1.000 EA |
| 418151014G             | RETAIN RING                           | 1.000 EA |
| 423709011D             | WASHER                                | 3.000 EA |

Product Information Packet: ECP84406T-4 - 150HP,1785RPM,3PH,60HZ,445T,A4488M,TEFC

|             |                                          |          |
|-------------|------------------------------------------|----------|
| 702623013A  | THERMAL BARRIER -- G28 -- BRACKET MTD    | 1.000 EA |
| 032018008BK | HHCS 5/16-18X1L PLATED                   | 4.000 EA |
| 032018008DK | HHCS 1/2-13X1 PLATED                     | 4.000 EA |
| 033512006LB | HHTTS 1/4-20X3/4 PLTD.                   | 1.000 EA |
| 035000001A  | ALFTG 1/8" 1610-BL                       | 1.000 EA |
| 035000001A  | ALFTG 1/8" 1610-BL                       | 1.000 EA |
| 067053001C  | GASK 440                                 | 1.000 EA |
| 076863000C  | +CBCST BLKT - 440                        | 1.000 EA |
| 076864000A  | CB CVRCST BLKT - 440                     | 1.000 EA |
| 406056007A  | GASKET, 440                              | 1.000 EA |
| 406099000A  | PLUG - FAN COVER 320-440                 | 1.000 EA |
| 415000103D  | T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT  | 1.000 EA |
| 418150003A  | GREASE FITTING CAP                       | 1.000 EA |
| 418150003A  | GREASE FITTING CAP                       | 1.000 EA |
| MG1025N19   | WILKO 778.50 BLUE GREEN - 55 GAL DRUMS   | 0.250 GA |
| 033775004EA | DRSCR #6-1/4 304 S.S.                    | 2.000 EA |
| 034180054KA | KEY 7/8X7/8X6-3/4 L                      | 1.000 EA |
| MN416       | TAG-INSTAL-MAINT w/wire. (1200/bx) 10/14 | 1.000 EA |
| PK5004A09   | BASE 48 X 39-1/4 STACK 2 X 4 RUUNER      | 1.000 EA |
| LB1449      | DIV-2/NEC WARNING LABEL                  | 1.000 EA |

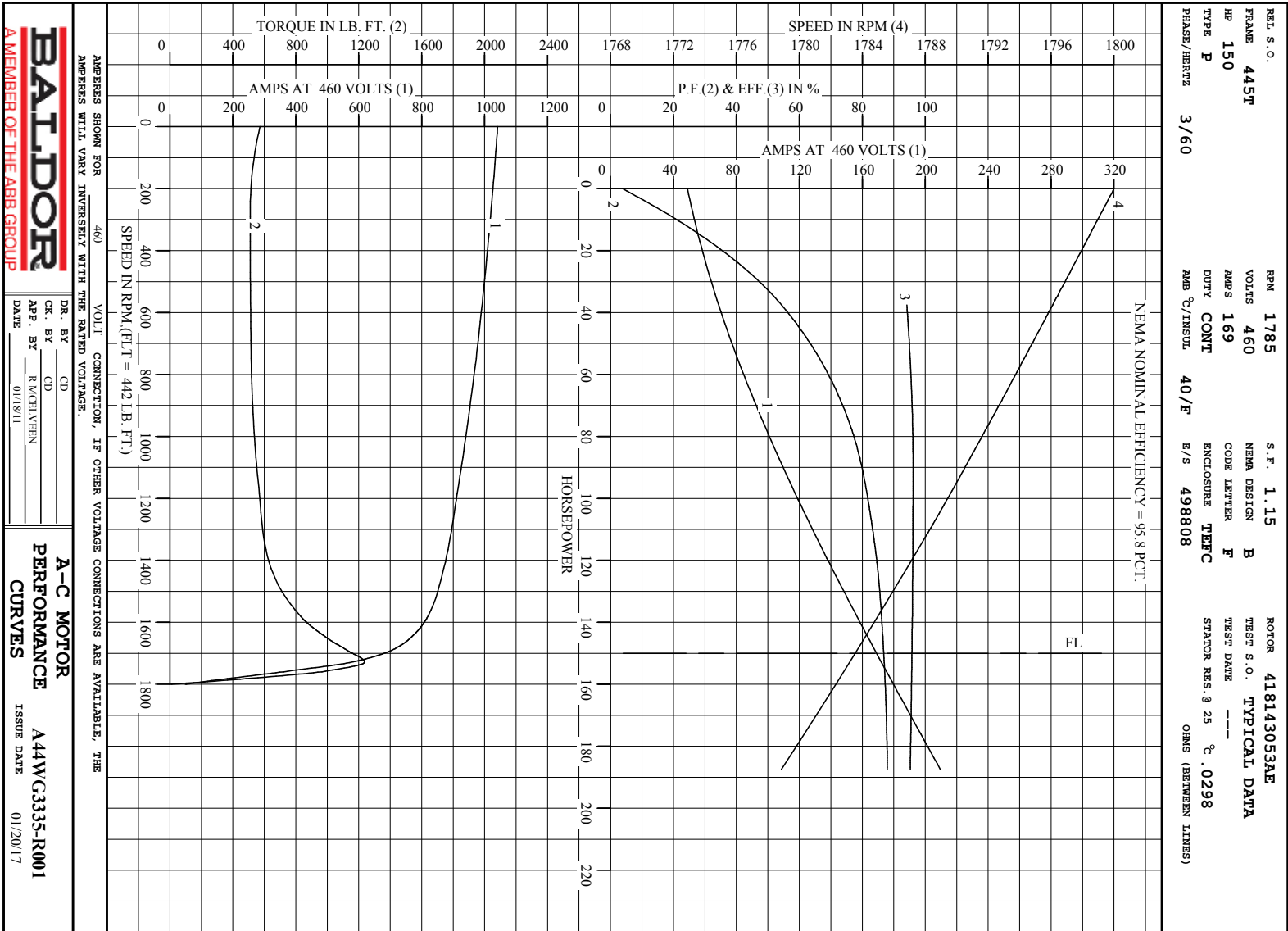
|              |             |                       |                   |                                            |                 |       |
|--------------|-------------|-----------------------|-------------------|--------------------------------------------|-----------------|-------|
| REL.<br>S.O. | FRAME       | HP                    | TYPE              | PHASE/<br>HERTZ                            | RPM             | VOLTS |
|              | 445T        | 150                   | P                 | 3/60                                       | 1785            | 460   |
| AMPS         | DUTY        | AMB °C/<br>INSUL.     | S.F.              | NEMA<br>DESIGN                             | CODE<br>LETTER  | ENCL. |
| 169          | CONT        | 40/F                  | 1.15              | B                                          | F               | TEFC  |
| E/S          | ROTOR       | TEST<br>S.O.          | TEST<br>DATE      | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES) |                 |       |
| 49808        | 418143053AE | ---                   | ---               | .0298                                      |                 |       |
| PERFORMANCE  |             |                       |                   |                                            |                 |       |
| LOAD         | HP          | AMPERES               | RPM               | POWER FACTOR                               | %<br>EFFICIENCY |       |
| NO LOAD      | 0           | 48.9                  | 1800              | 3.78                                       | 0               |       |
| 1/4          | 37.6        | 68.7                  | 1796              | 54.4                                       | 94.2            |       |
| 2/4          | 75.0        | 96.7                  | 1792              | 75.7                                       | 96.0            |       |
| 3/4          | 112         | 131                   | 1788              | 83.6                                       | 96.1            |       |
| 4/4          | 150         | 169                   | 1784              | 86.8                                       | 95.8            |       |
| 5/4          | 188         | 210                   | 1779              | 87.9                                       | 95.2            |       |
| SPEED TORQUE |             |                       |                   |                                            |                 |       |
|              | RPM         | TORQUE<br>% FULL LOAD | TORQUE<br>LB.-FT. | AMPERES                                    |                 |       |
| LOCKED ROTOR | 0           | 130                   | 572               | 1041                                       |                 |       |
| PULL UP      | 270         | 116                   | 511               | 1020                                       |                 |       |
| BREAKDOWN    | 1729        | 280                   | 1237              | 579                                        |                 |       |
| FULL LOAD    | 1784        | 100                   | 442               | 169                                        |                 |       |

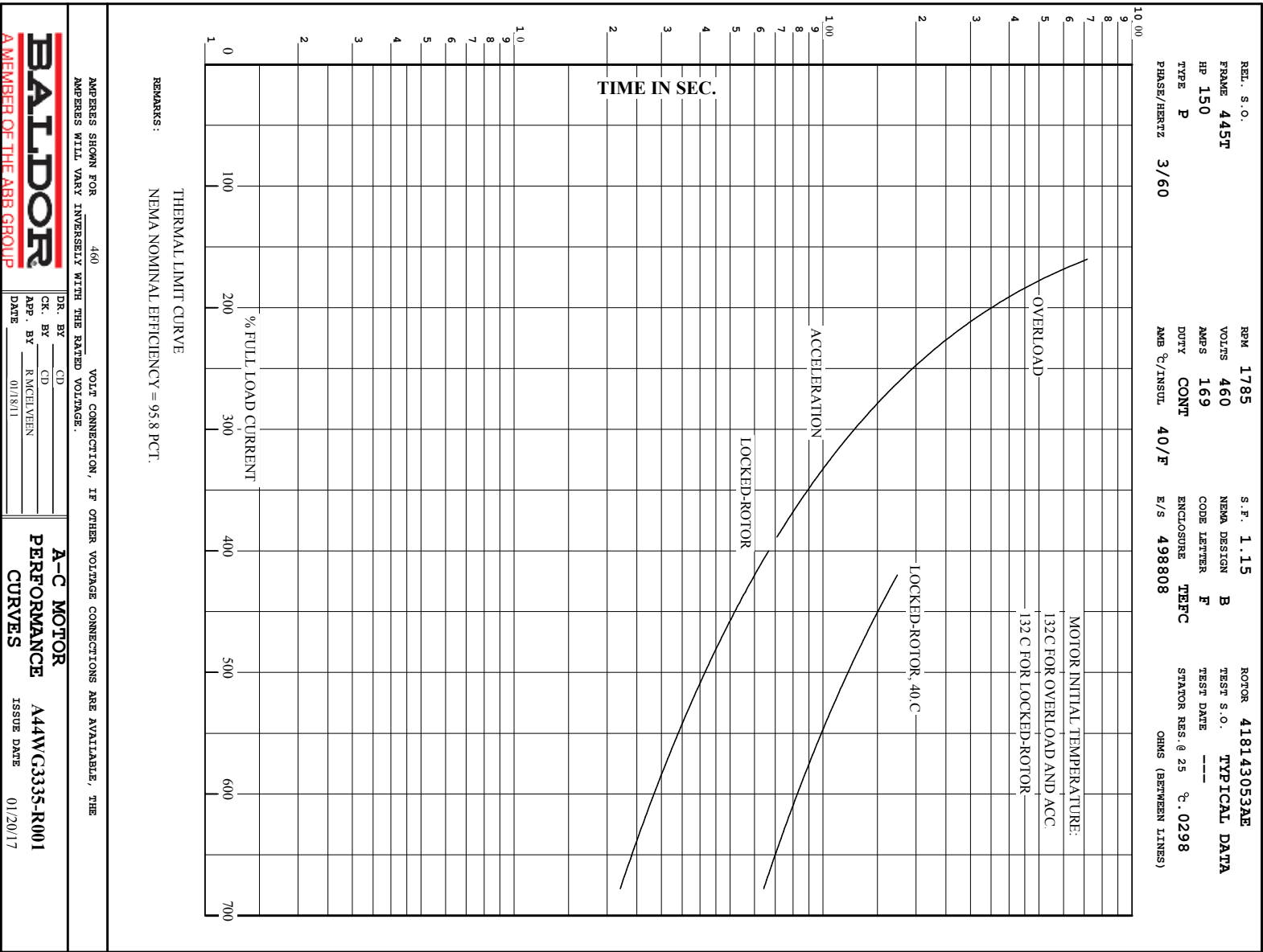
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

REMARKS: TYPICAL DATA  
NEMA NOMINAL EFFICIENCY = 95.8 PCT.

|                                            |  |                                                                      |                                                                                                       |
|--------------------------------------------|--|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>BALDOR</b><br>A MEMBER OF THE ABB GROUP |  | DR. BY _____<br>CK. BY _____<br>APP. BY R. MCLEVERN<br>DATE 01/18/11 | <b>A-C MOTOR</b><br><b>PERFORMANCE</b><br><b>DATA</b><br><b>A44WG3335-R001</b><br>ISSUE DATE 01/20/17 |
|--------------------------------------------|--|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|







# DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

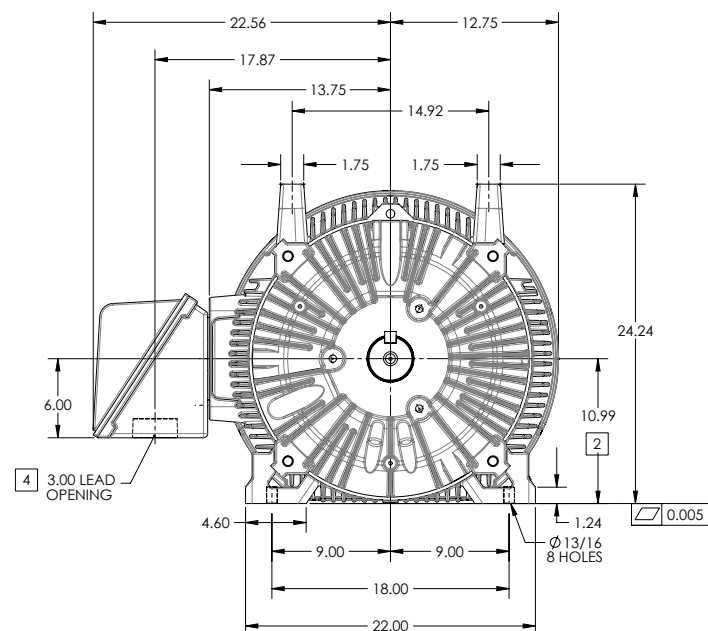
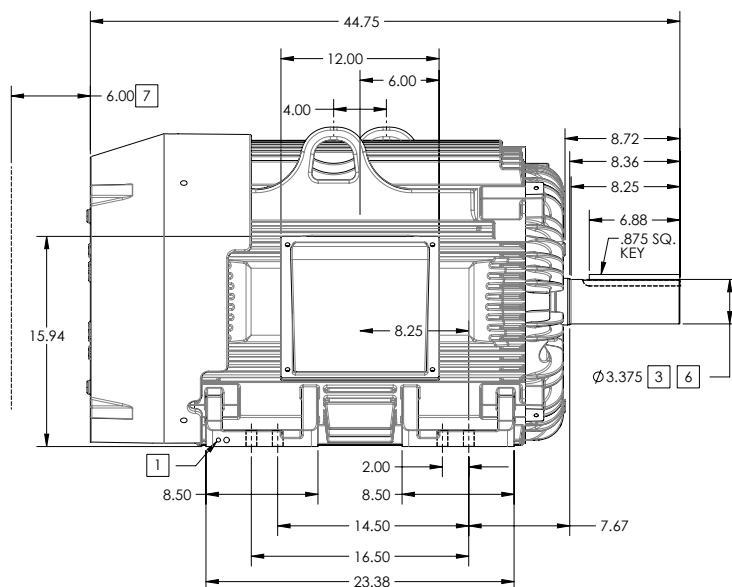
FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES

841XL ENCLOSURE ENHANCEMENT



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. SHAFT TIR = 0.0015 IN FOR BALL BEARING MOTORS AND 0.002 IN FOR ROLLER BEARING CONSTRUCTION
7. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

**[5] WEIGHT (LBS): 2130**

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER  
1 OF 2

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.  
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.  
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF  
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

|                                        |                              |
|----------------------------------------|------------------------------|
| REV. DESC: CHANGE C/BOX TO 076863-000C |                              |
| REV: D                                 | VERSION: 04                  |
| MODEL NO. 617427-061                   | REVISED: 10-17-59 09/25/2015 |
| BY: RAGISSI                            | TDR: 00000945832             |
| Material:                              | REF:                         |

**BALDOR**

G445T444T STD - FOOTED - SIDE/CENTER C/B - 841XL

# DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

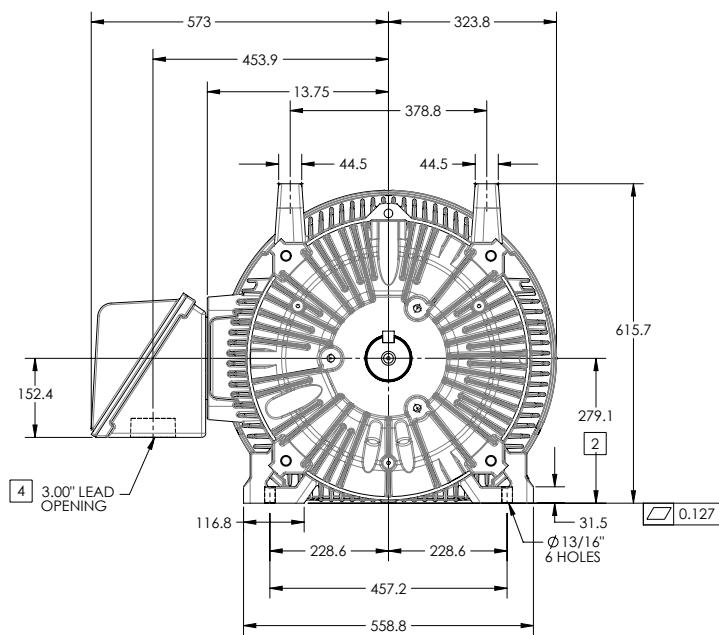
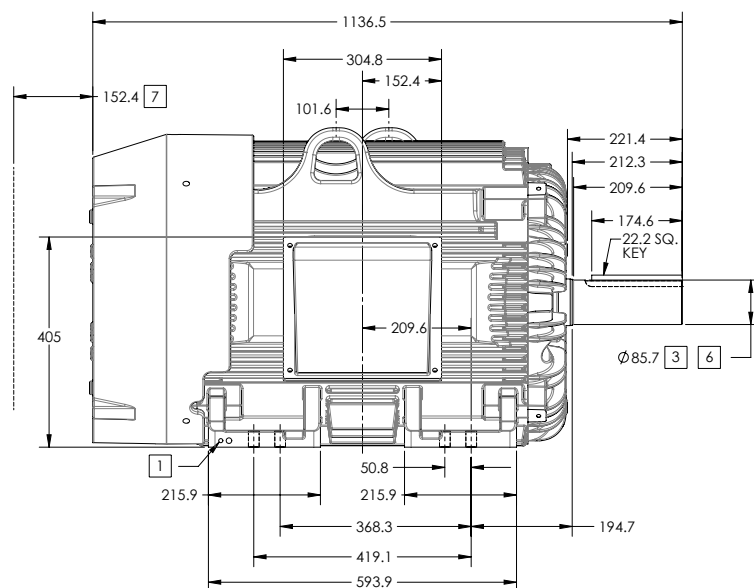
FRAME G445T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444T FRAME MOUNTING HOLES

841XL ENCLOSURE ENHANCEMENT



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.152MM
3. VARIES +.000,-.025MM
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
6. SHAFT TIR = 0.038MM FOR BALL BEARING MOTORS AND 0.051MM FOR ROLLER BEARING CONSTRUCTION
7. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

**[5] WEIGHT (KGS): 970**

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

 SHEET NUMBER  
2 OF 2

190727-061

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.  
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.  
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF  
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

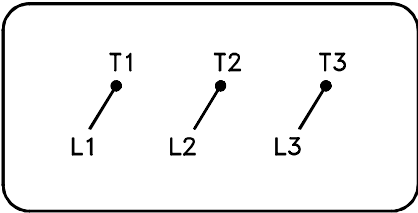
|                                        |                              |
|----------------------------------------|------------------------------|
| REV. DESC: CHANGE C/BOX TO 076863-000C |                              |
| REV: D                                 | VERSION: 04                  |
| MODEL NO. 617427-061                   | REVISED: 10-17-59 09/25/2015 |
| BY: RAGISSI                            | TDR: 00000945832             |
| Material:                              | REF:                         |

**BALDOR**

G445T444T STD - FOOTED - SIDE/CENTER C/B - 841XL

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 |             |                                | <b>BALDOR</b>               |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |                             |
| FILE: \MGA\00000\682                 |             | REVISED: 11: 54: 06 04/30/2010 |                             |
| MTL: -                               |             | BY: RAGRA                      |                             |
|                                      |             |                                | CONN DIAG - STANDARD 3 LEAD |
|                                      |             |                                | SH 1 of 1                   |

Marketing maintained PDF of MN408:

<http://www.baldor.com/support/Literature/Load.ashx/MN408?ManNumber=MN408>

Marketing maintained PDF of MN416:

<http://www.baldor.com/support/Literature/Load.ashx/MN416?ManNumber=MN416>