

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EM4407TR-4**

**200HP,1785RPM,3PH,60HZ,447T,A44120M,TEFC**

| Part Detail |                    |                |         |             |           |               |            |
|-------------|--------------------|----------------|---------|-------------|-----------|---------------|------------|
| Revision:   | H                  | Status:        | PRD/A   | Change #:   |           | Proprietary:  | No         |
| Type:       | AC                 | Prod. Type:    | A44120M | Elec. Spec: | A44WG1500 | CD Diagram:   | 416820-036 |
| Enclosure:  | TEFC               | Mfg Plant:     |         | Mech. Spec: |           | Layout:       | 617427-002 |
| Frame:      | 447T               | Mounting:      | F1      | Poles:      | 04        | Created Date: | 08-10-2012 |
| Base:       |                    | Rotation:      | R       | Insulation: | F         | Eff. Date:    | 09-26-2016 |
| Leads:      | 3#1 (02 per group) |                |         |             |           | Replaced By:  |            |
| Literature: |                    | Elec. Diagram: |         |             |           |               |            |

## Nameplate NP2383L

|                         |             |                       |          |
|-------------------------|-------------|-----------------------|----------|
| CAT.NO.                 | EM4407TR-4  | SPEC NO.              | P44G3913 |
| HP                      | 200         | AMPS                  | 223      |
| FRAME                   | 447T        | RPM                   | 1785     |
| DRIVE END BEARING       | 110RU02M30X | HZ                    | 60       |
| OPP D.E. BEARING        | 90BC03J30X  | AMB                   | 40       |
| SER.NO.                 |             | SF                    | 1.15     |
|                         |             | INSUL.CLASS           | F        |
|                         |             | PHASE                 | 3        |
|                         |             | DUTY                  | CONT     |
|                         |             | TYPE                  | P        |
|                         |             | ENCL                  | TEFC     |
|                         |             | CODE                  | G        |
|                         |             | POWER FACTOR          | 87       |
|                         |             | NEMA-NOM-EFFICIENCY   | 96.2     |
|                         |             | MAX CORR KVAR         | 32.0     |
|                         |             | GUARANTEED EFFICIENCY | 95.4     |
| NEMA NOM/CSA QUOTED EFF |             | MOTOR WEIGHT          | 2531     |

|                       |  |
|-----------------------|--|
| Nameplate NP2496L     |  |
| MOBIL SHC -220 GREASE |  |
|                       |  |

| Parts List  |                                        |          |
|-------------|----------------------------------------|----------|
| Part Number | Description                            | Quantity |
| SA249385    | SA P44G3913                            | 1.000 EA |
| RA236250    | RA P44G3913                            | 1.000 EA |
| 000692000FF | N/P                                    | 1.000 EA |
| 000692000VD | LABEL WARNING                          | 1.000 EA |
| NP2383L     | SUPER-E ,SS, CC, CSA-C US, CSA EEV     | 1.000 EA |
| 004824015AP | GREASE MOBILITH SHC 220                | 1.156 LB |
| 032018008CK | HHCS 3/8-16X1L PLATED                  | 4.000 EA |
| 032018020FK | HHCS 3/4-10X2-1/2 PLTD.                | 4.000 EA |
| 032018030DK | HHCS 1/2-13X3-3/4 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 |
| 034630002AB | CPLG 1/4" PLATED                       | 1.000 EA |
| 034690002AB | "unbulked" PPLG 1/4" PLTD.             | 1.000 EA |
| 034690005AB | PPLG 3/4 PLATED                        | 2.000 EA |
| 078548001R  | FAN KB 234/150 (84) 400                | 1.000 EA |
| 083199126RA | G28 MOLDED FAN COVER W/BAFFLE ASSEMBLY | 1.000 EA |
| 089490099A  | G28 BRKT 089490098WCA KB               | 1.000 EA |
| 415072001B  | CLAMP                                  | 1.000 EA |
| 415096002A  | CPLG 1/8 HEX TYPE                      | 1.000 EA |
| 418151014G  | RETAIN RING                            | 1.000 EA |
| 418151057A  | PLASTIC DRAIN,ODE BRKT                 | 1.000 EA |

| Parts List (continued) |                                         |          |
|------------------------|-----------------------------------------|----------|
| Part Number            | Description                             | Quantity |
| 032018004BK            | HHCS 5/16-18X1/2 PLATED                 | 3.000 EA |
| 032018020FK            | HHCS 3/4-10X2-1/2 PLTD.                 | 4.000 EA |
| 032018030DK            | HHCS 1/2-13X3-3/4 PLTD.                 | 3.000 EA |
| 034017013AB            | LCKW 5/16 STD. PLATED                   | 3.000 EA |
| 034530040AB            | P/NIP 1/8X5 GALV.                       | 1.000 EA |
| 034530040BB            | P/NIP 1/4X5                             | 1.000 EA |
| 034630002AB            | CPLG 1/4" PLATED                        | 1.000 EA |
| 034690002AB            | "unbulked" PPLG 1/4" PLTD.              | 1.000 EA |
| 089490101A             | G28 BRKT 089490100WCA                   | 1.000 EA |
| 415096002A             | CPLG 1/8 HEX TYPE                       | 1.000 EA |
| 418151014H             | RETAIN RING                             | 1.000 EA |
| 412118006A             | DRAIN                                   | 1.000 EA |
| 702623013A             | THERMAL BARRIER -- G28 -- BRACKET MTD   | 1.000 EA |
| 415915007G             | GASK, LAC                               | 1.000 FT |
| 032018008DK            | HHCS 1/2-13X1 PLATED                    | 4.000 EA |
| 033512004LB            | HHTTS 1/4-20X1/2 PLTD.                  | 1.000 EA |
| 033512006LB            | HHTTS 1/4-20X3/4 PLTD.                  | 8.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                      | 1.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                      | 1.000 EA |
| 406056008A             | GASKET, TERBD 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 |

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|             |                                       |          |
|-------------|---------------------------------------|----------|
| 418153001A  | GASK 440                              | 1.000 EA |
| 702658001B  | +C/BOX, PAINTED 440                   | 1.000 EA |
| 702658002A  | +C/BOX CVR, PAINTED 440               | 1.000 EA |
| MG1000Y03   | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,   | 0.375 GA |
| 033775004EA | DRSCR #6-1/4 304 S.S.                 | 2.000 EA |
| 034180054KA | KEY 7/8X7/8X6-3/4 L                   | 1.000 EA |
| 421948051   | LABEL, MYLAR                          | 1.000 EA |
| NP2496L     | MOTOR LUBE NAMEPLATE                  | 1.000 EA |
| 000692000RT | N/P                                   | 1.000 EA |
| 604797056   | WOOD BASE 447 60 X 41-1/2 BLT 20 X 18 | 1.000 EA |
| 604797001R  | 440 FR. ROLLER BEARING MOTOR SHAFT    | 1.000 EA |
| 032018028CK | HHCS 3/8-16X3-1/2 PLTD.               | 1.000 EA |
| 034001014AB | FLAT WASHER 3/8"PLATED                | 1.000 EA |
| 034001016AB | WSHR .562ID 1.375OD .109              | 1.000 EA |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABLE | 1.000 EA |

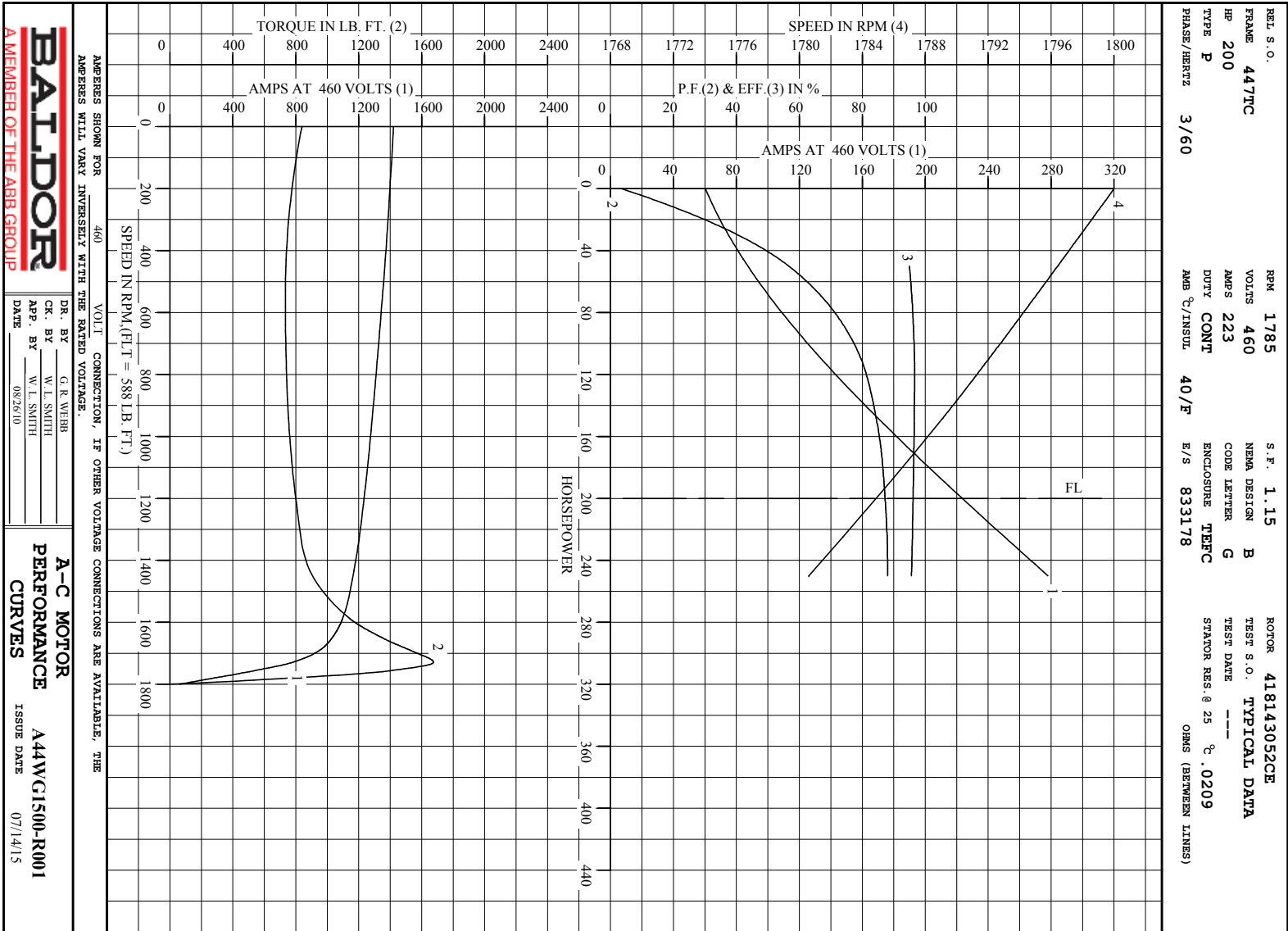
|                                                                                                                                                                        |             |                               |                   |                                                       |                 |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------|-------------------|-------------------------------------------------------|-----------------|-------|
| REL.<br>S.O.                                                                                                                                                           | FRAME       | HP                            | TYPE              | PHASE/<br>HERTZ                                       | RPM             | VOLTS |
|                                                                                                                                                                        | 447TC       | 200                           | P                 | 3/60                                                  | 1785            | 460   |
| AMPS                                                                                                                                                                   | DUTY        | AMB <sup>°C</sup> /<br>INSUL. | S.F.              | NEMA<br>DESIGN                                        | CODE<br>LETTER  | ENCL. |
| 223                                                                                                                                                                    | CONT        | 40/F                          | 1.15              | B                                                     | G               | TEFC  |
| E/S                                                                                                                                                                    | ROTOR       | TEST<br>S.O.                  | TEST<br>DATE      | STATOR RES. @25 <sup>°C</sup><br>OHMS (BETWEEN LINES) |                 |       |
| 833178                                                                                                                                                                 | 418143052CE | ---                           | ---               | .0209                                                 |                 |       |
| PERFORMANCE                                                                                                                                                            |             |                               |                   |                                                       |                 |       |
| LOAD                                                                                                                                                                   | HP          | AMPERES                       | RPM               | POWER FACTOR                                          | %<br>EFFICIENCY |       |
| NO LOAD                                                                                                                                                                | 0           | 60.4                          | 1800              | 3.47                                                  | 0               |       |
| 1/4                                                                                                                                                                    | 50.0        | 87.1                          | 1796              | 56.7                                                  | 95.0            |       |
| 2/4                                                                                                                                                                    | 100         | 125                           | 1793              | 77.4                                                  | 96.5            |       |
| 3/4                                                                                                                                                                    | 150         | 172                           | 1789              | 84.6                                                  | 96.5            |       |
| 4/4                                                                                                                                                                    | 200         | 223                           | 1785              | 87.3                                                  | 96.2            |       |
| 5/4                                                                                                                                                                    | 250         | 278                           | 1781              | 88.0                                                  | 95.6            |       |
| SPEED TORQUE                                                                                                                                                           |             |                               |                   |                                                       |                 |       |
|                                                                                                                                                                        | RPM         | TORQUE<br>% FULL LOAD         | TORQUE<br>LB.-FT. | AMPERES                                               |                 |       |
| LOCKED ROTOR                                                                                                                                                           | 0           | 143                           | 839               | 1421                                                  |                 |       |
| PULL UP                                                                                                                                                                | 540         | 125                           | 734               | 1352                                                  |                 |       |
| BREAKDOWN                                                                                                                                                              | 1729        | 285                           | 1675              | 779                                                   |                 |       |
| FULL LOAD                                                                                                                                                              | 1785        | 100                           | 588               | 223                                                   |                 |       |
| AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE<br>AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE<br>REMARKS: TYPICAL DATA |             |                               |                   |                                                       |                 |       |

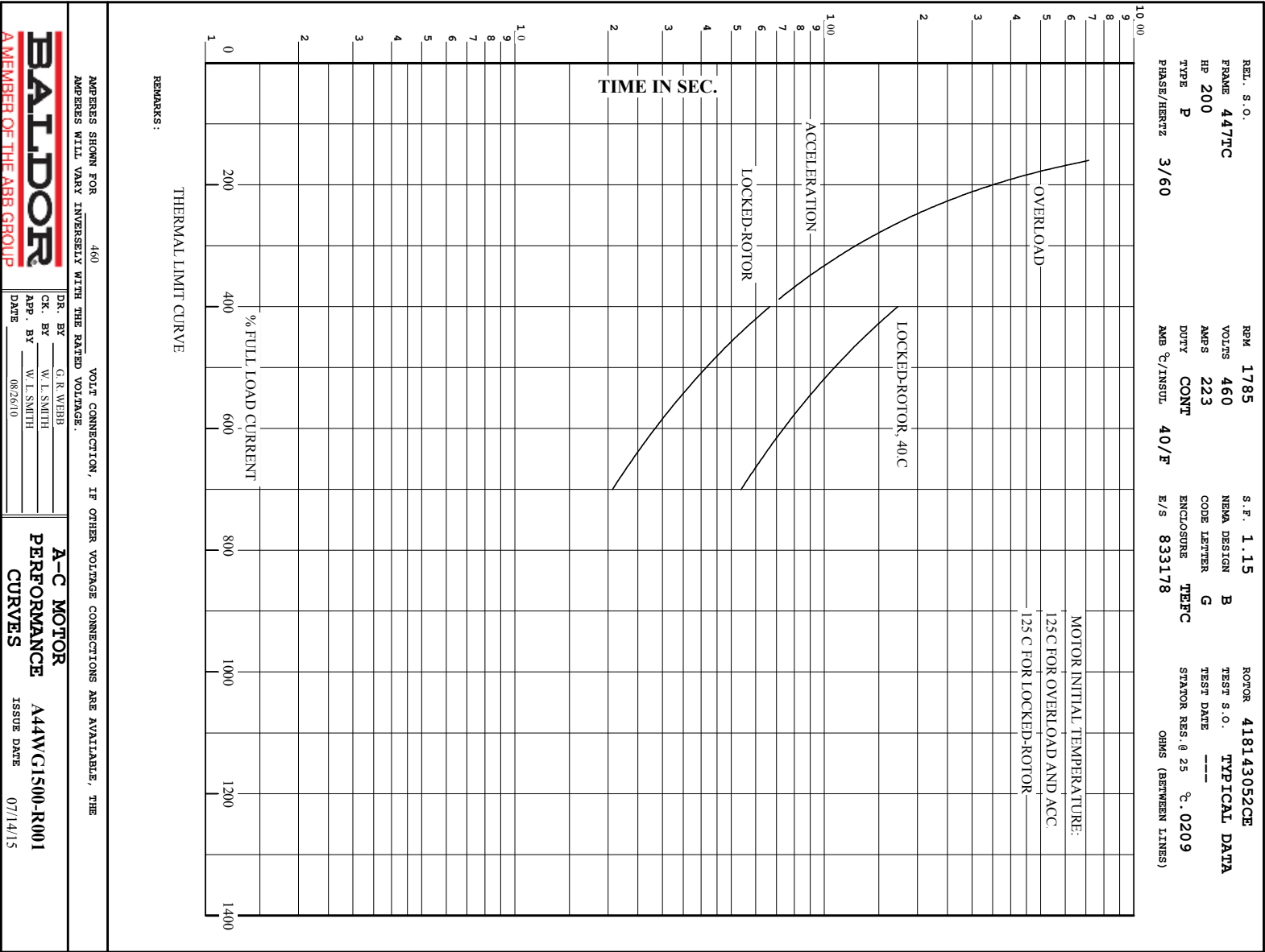
**BALDOR**  
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB  
CK. BY W. L. SMITH  
APP. BY W. L. SMITH  
DATE 08/26/10

A-C MOTOR  
PERFORMANCE DATA  
A44WG1500-R001  
ISSUE DATE 07/14/15







## DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

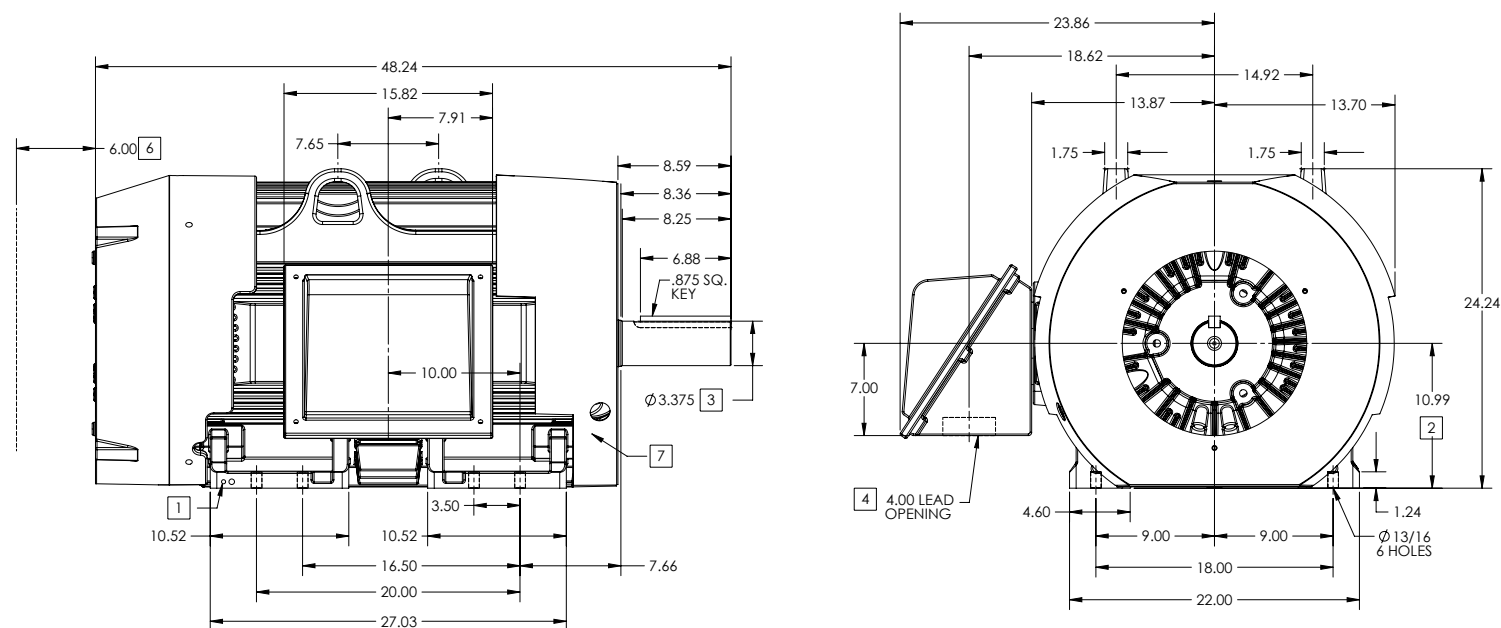
ENCLOSURE: TOTALLY ENCLOSED

FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES



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. OBSTRUCTION MUST NO ENCR OACH ON AIR INLET.
7. AIR DEFLECTOR INSTALLED WHEN REQUIRED.

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.

[5] WEIGHT (LBS): 2515

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.

|                                                                 |             |                              |                   |
|-----------------------------------------------------------------|-------------|------------------------------|-------------------|
| REV. DESC: CHANGING ENCLOSURE TO "TOTALLY ENCLOSED" WAS "UL..." |             |                              |                   |
| REV: A                                                          | VERSION: 01 | REVISED: 08:25:13 02/15/2013 | TDR: 000000786306 |
| MODEL NO. 617427-002                                            |             |                              | REF:              |
| BY: MGHWC/G                                                     |             | Material:                    |                   |

# BALDOR

G447T/445T STD – FOOTED – SIDE/CENTER C/B

# DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

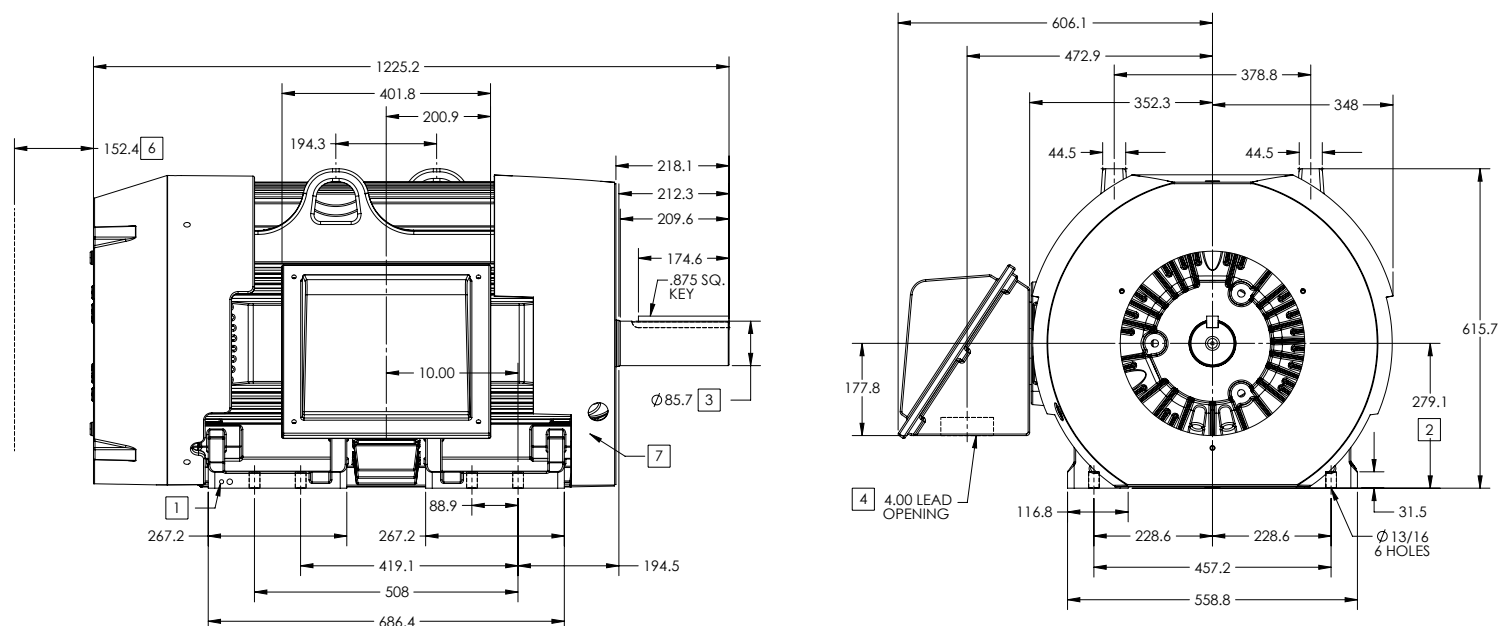
ENCLOSURE: TOTALLY ENCLOSED

FRAME G447T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445T FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES  $\pm .00$ -.06
3. VARIES  $\pm .000$ -.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. OBSTRUCTION MUST NO ENCROACH ON AIR INLET.
7. AIR DEFLECTOR INSTALLED WHEN REQUIRED.

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.

**[5] WEIGHT (KGS): 1140**

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.

|                      |             |                              |                   |
|----------------------|-------------|------------------------------|-------------------|
| REV. A               | VERSION: 01 | REVISED: 08/25/13 02/15/2013 | TDR: 000000786306 |
| MODEL NO. 617427-002 | BY: MGHWC   | Material:                    | REF:              |

**BALDOR**

G447T/445T STD - FOOTED - SIDE/CENTER C/B

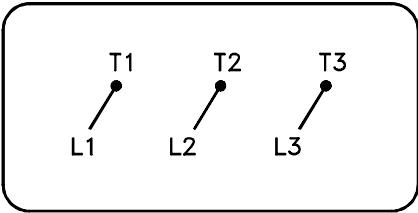
416820-036

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 | CONN DIAG - STANDARD 3 LEAD |
| MTL: -                               |             | BY: RAGRA                      | 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>