

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **ECP4407TS-4**

**200HP,1785RPM,3PH,60HZ,447TS,A44120M,TEF**

| Part Detail |                    |                |         |             |           |               |            |
|-------------|--------------------|----------------|---------|-------------|-----------|---------------|------------|
| Revision:   | J                  | Status:        | PRD/A   | Change #:   |           | Proprietary:  | No         |
| Type:       | AC                 | Prod. Type:    | A44120M | Elec. Spec: | A44WG1102 | CD Diagram:   | 416820-036 |
| Enclosure:  | TEFC               | Mfg Plant:     |         | Mech. Spec: |           | Layout:       | 617427-005 |
| Frame:      | 447TS              | Mounting:      | F1      | Poles:      | 04        | Created Date: | 08-15-2012 |
| Base:       |                    | Rotation:      | R       | Insulation: | F         | Eff. Date:    | 12-15-2016 |
| Leads:      | 3#1 (02 per group) |                |         |             |           | Replaced By:  |            |
| Literature: |                    | Elec. Diagram: |         |             |           |               |            |

## Nameplate NP3238

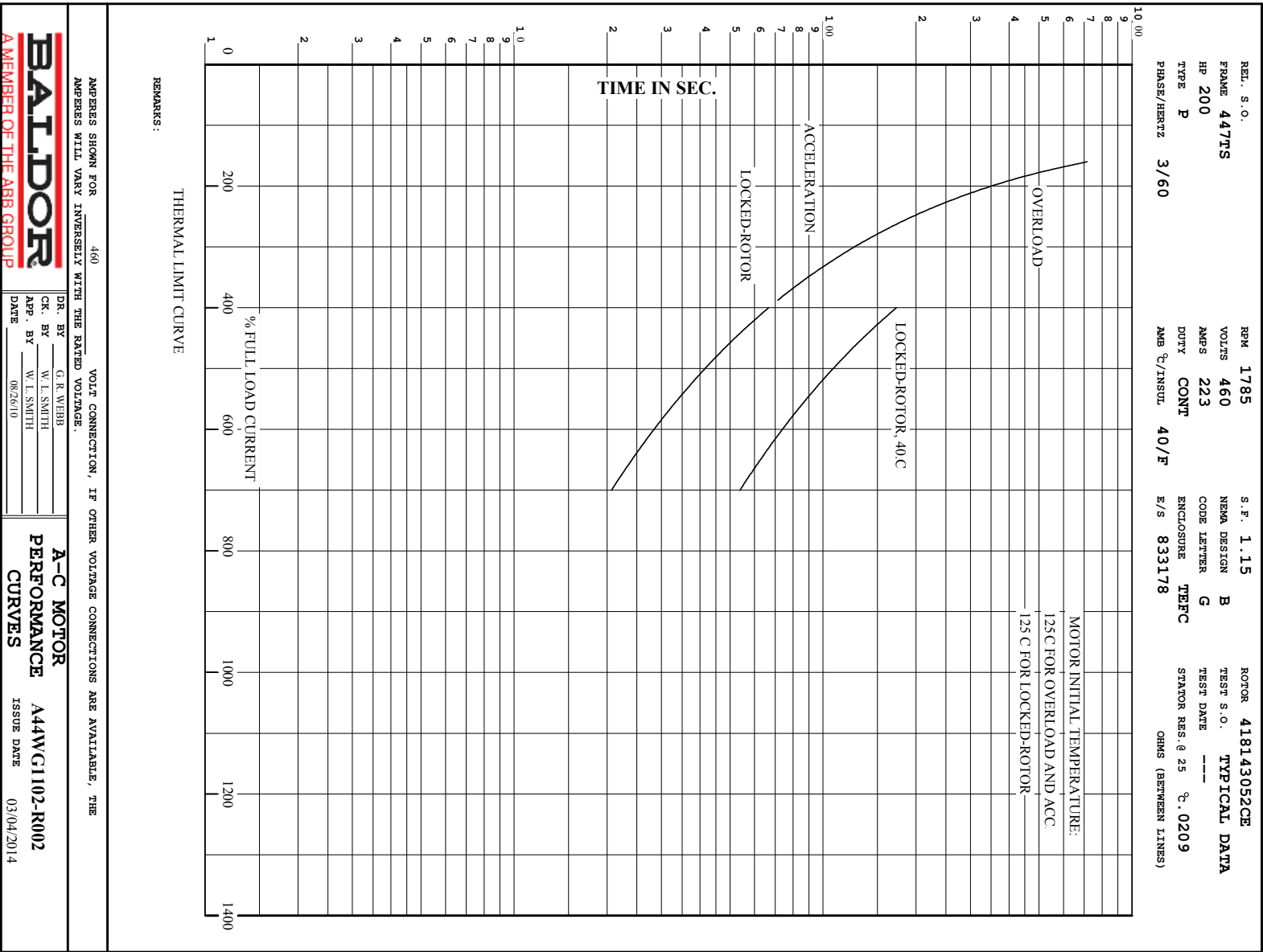
|                    |             |                 |          |                       |      |
|--------------------|-------------|-----------------|----------|-----------------------|------|
| CAT NO             | ECP4407TS-4 | SPEC NO.        | P44G3935 |                       |      |
| HP                 | 200         | AMPS            | 223      | VOLTS                 | 460  |
| FRAME              | 447TS       | RPM             | 1785     | DESIGN                | B    |
| D.E. BRG.DATA      | 6318        | HZ              | 60       | AMB                   | 40   |
| D.E. BRG.          | 90BC03J30X  | O.D.E. BRG.DATA | 6318     | SF                    | 1.15 |
| O.D.E. BRG.        | 90BC03J30X  | TYPE            | P        | ENCL                  | TEFC |
| 3/4 LOAD EFF.      | 96.5        | POWER FACTOR    | 87       | PH                    | 3    |
| TEMP CODE          | T3          | MAX CORR KVAR   | 32.0     | DUTY                  | CONT |
| CHP HZ             | 60-90       | TEMP =          | 200      | INSUL.CLASS           | F    |
| INVERTER-TEMP-CODE | T3          | CT HZ           | 30-60    | NEMA NOM EFFICIENCY   | 96.2 |
| SER.NO.            |             | VT HZ           | 0-60     | GUARANTEED EFFICIENCY | 95.4 |
|                    |             | MOTOR WEIGHT    | 2573     |                       |      |

| Parts List  |                                       |          |
|-------------|---------------------------------------|----------|
| Part Number | Description                           | Quantity |
| SA249708    | SA P44G3935                           | 1.000 EA |
| RA236568    | RA P44G3935                           | 1.000 EA |
| NP3238      | SS CP XEX SEVERE DUTY MAIN NP         | 1.000 EA |
| 000692000FF | N/P                                   | 1.000 EA |
| 000692000VD | LABEL WARNING                         | 1.000 EA |
| 004824015A  | GREASE POLYREX EM                     | 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 |
| 034530064AB | P/NIP 1/8 X 8" L Pipe Nipple          | 1.000 EA |
| 034530064BB | P/NIP 1/4X8 PLATED                    | 1.000 EA |
| 034631002AB | BUSH 1/4 TO 1/8 PLTD.                 | 1.000 EA |
| 035000001G  | GREASE RELIEF FITTING, ALEMITE 317400 | 1.000 EA |
| 034690005AB | PPLG 3/4 PLATED                       | 2.000 EA |
| 078548001R  | FAN KB 234/150 (84) 400               | 1.000 EA |
| 083199082RA | G28 SHORT FAN COVER W/BAFFLE ASSEMBLY | 1.000 EA |
| 089490099A  | G28 BRKT 089490098WCA KB              | 1.000 EA |
| 410700004A  | WSHR                                  | 1.000 EA |
| 412118006A  | DRAIN                                 | 1.000 EA |
| 415045002A  | SLGR                                  | 1.000 EA |
| 415072001B  | CLAMP                                 | 1.000 EA |

| Parts List (continued) |                                       |          |
|------------------------|---------------------------------------|----------|
| Part Number            | Description                           | Quantity |
| 415096002A             | CPLG 1/8 HEX TYPE                     | 1.000 EA |
| 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 |
| 034530044AB            | P/NIP 1/8X5-1/2L GALV.                | 1.000 EA |
| 034530044BB            | P/NIP 1/4X5-1/2L PLT                  | 1.000 EA |
| 034631002AB            | BUSH 1/4 TO 1/8 PLTD.                 | 1.000 EA |
| 089490099A             | G28 BRKT 089490098WCA KB              | 1.000 EA |
| 412118006A             | DRAIN                                 | 1.000 EA |
| 415045002A             | SLGR                                  | 1.000 EA |
| 415096002A             | CPLG 1/8 HEX TYPE                     | 1.000 EA |
| 415915007G             | GASK, LAC                             | 1.000 FT |
| 418151014G             | RETAIN RING                           | 1.000 EA |
| 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 |
| 033512004LB            | HHTTS 1/4-20X1/2 PLTD.                | 1.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                    | 1.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                    | 1.000 EA |
| 067053014A             | GASK 440                              | 1.000 EA |
| 076870000B             | +CBCST BLKT - 440                     | 1.000 EA |
| 076871000A             | +CBOX CVR BLKT - 449                  | 1.000 EA |
| 406056007A             | GASKET, 440                           | 1.000 EA |

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|              |                                         |          |
|--------------|-----------------------------------------|----------|
| 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 |
| 033775004EA  | DRSCR #6-1/4 304 S.S.                   | 2.000 EA |
| 034180024HA  | KEY 5/8X5/8X3 L                         | 1.000 EA |
| MG1025N19    | WILKO 778.50 BLUE GREEN - 55 GAL DRUMS  | 0.375 GA |
| 004824003CBY | WILKO PAINT 060.02 - ACTIVATOR          | 0.094 GA |
| L482401016   | SPRAY AC-29-7S                          | 0.019 GA |
| 421948051    | LABEL, MYLAR                            | 1.000 EA |
| 604797056    | WOOD BASE 447 60 X 41-1/2 BLT 20 X 18   | 1.000 EA |
| 000613006PU  | N/P (RELEASE QTY 10,000) UL CSA LABLE   | 1.000 EA |
| LB1449       | DIV-2/NEC WARNING LABEL                 | 1.000 EA |
| 035000001G   | GREASE RELIEF FITTING, ALEMITE 317400   | 1.000 EA |



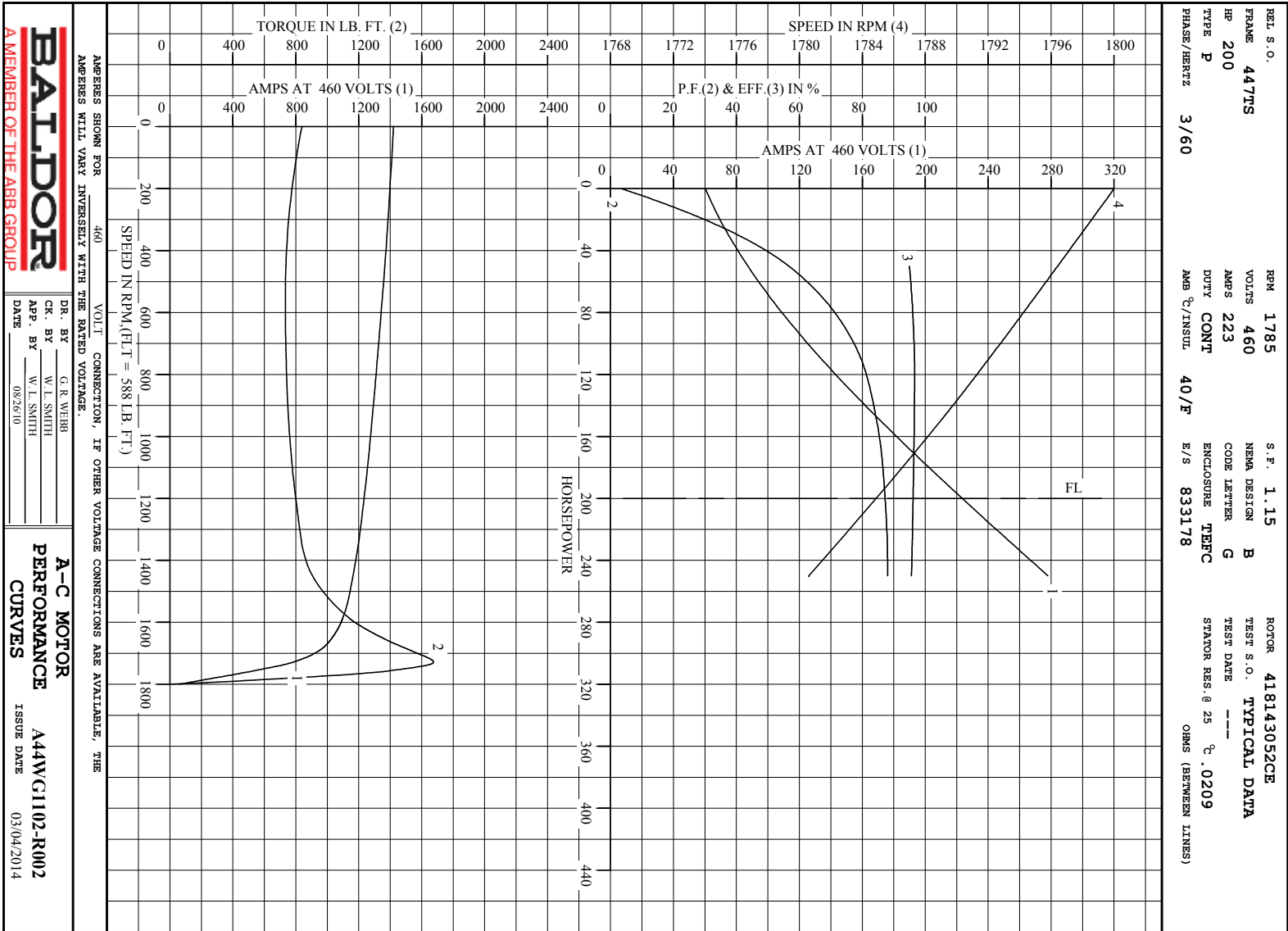
|                                                                                                                                                                        |             |                       |                   |                                            |                 |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|-------------------|--------------------------------------------|-----------------|-------|
| REL.<br>S.O.                                                                                                                                                           | FRAME       | HP                    | TYPE              | PHASE/<br>HERTZ                            | RPM             | VOLTS |
|                                                                                                                                                                        | 447TS       | 200                   | P                 | 3/60                                       | 1785            | 460   |
| AMPS                                                                                                                                                                   | DUTY        | AMB °C/<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 °C<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  
A44WG1102-R002  
ISSUE DATE 03/04/20





## DUTY MASTER ALTERNATING CURRENT MOTORS

### SQUIRREL-CAGE INDUCTION

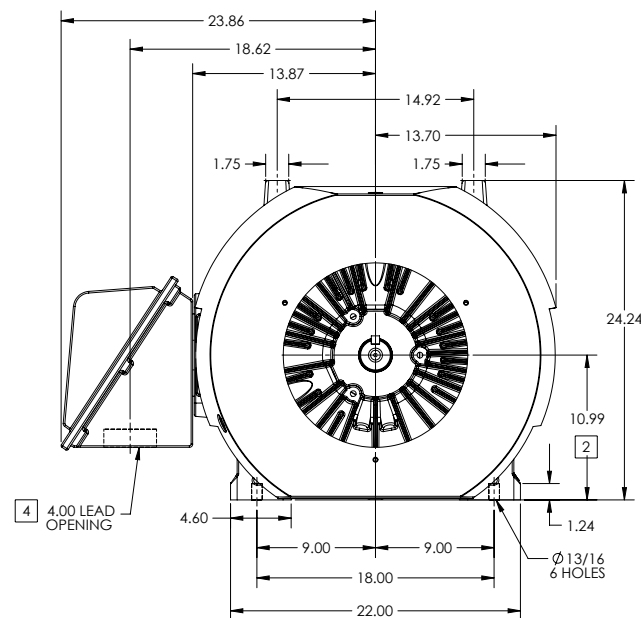
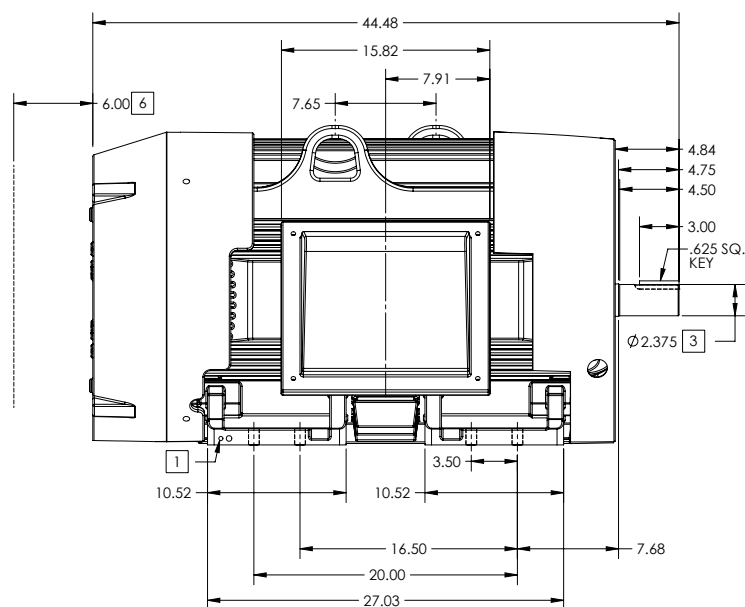
ENCLOSURE: TOTALLY ENCLOSED

FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS 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 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

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): 2480

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

500P-274719

|                                                                 |                              |
|-----------------------------------------------------------------|------------------------------|
| REV. DESC: CHANGING ENCLOSURE TO "TOTALLY ENCLOSED" WAS "UL..." |                              |
| REV: A                                                          | VERSION: 01                  |
| MODEL NO. 617427-005                                            | REVISED: 08/34/13 02/15/2013 |
| BY: MGHWC                                                       | TDR: 000000786306            |
| Material:                                                       | REF:                         |

**BALDOR**

G447TS-445TS STD - FOOTED - SIDE/CENTER CB

# DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

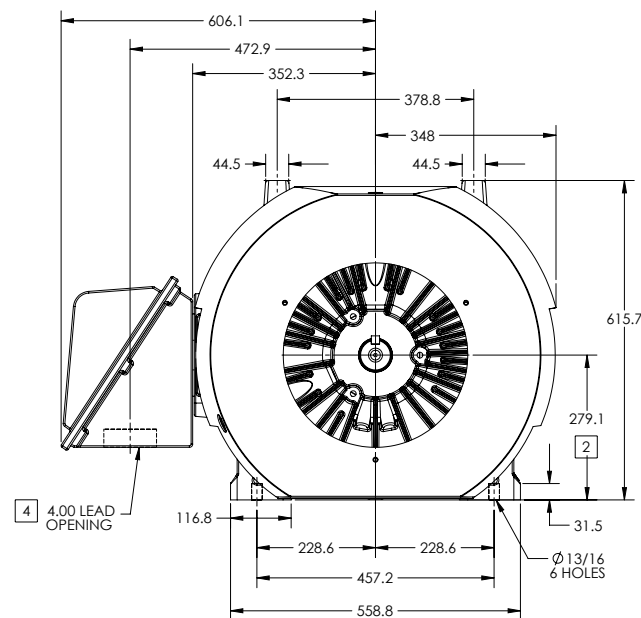
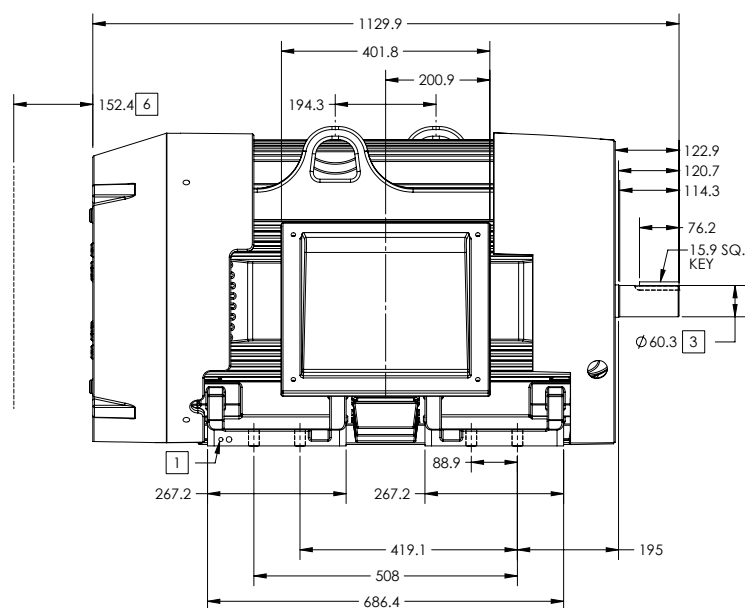
ENCLOSURE: TOTALLY ENCLOSED

FRAME G447TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 445TS 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 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

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): 1125

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

500P-2727-119

|                                                                 |                              |
|-----------------------------------------------------------------|------------------------------|
| REV. DESC: CHANGING ENCLOSURE TO "TOTALLY ENCLOSED" WAS "UL..." |                              |
| REV: A                                                          | VERSION: 01                  |
| MODEL NO. 617427-005                                            | REVISED: 08/34/13 02/15/2013 |
| BY: MGHWC                                                       | TDR: 000000786306            |
| Material:                                                       | REF:                         |

**BALDOR**

G447TS-445TS STD - FOOTED - SIDE/CENTER CB

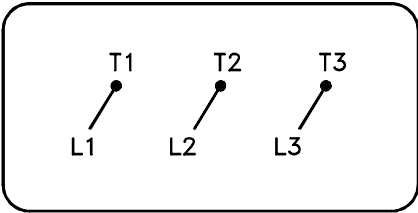
416820-036

A-C MOTOR

CONNECTION DIAGRAM

STANDARD 3 LEAD

CONNECTED



(N.P. 1575-BA)

416820-036

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

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>