

# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **EM4402T-4**

**100HP,3565RPM,3PH,60HZ,405TS,A40060M,TEF**

| Part Detail |       |                |         |             |           |               |            |
|-------------|-------|----------------|---------|-------------|-----------|---------------|------------|
| Revision:   | F     | Status:        | PRD/A   | Change #:   |           | Proprietary:  | No         |
| Type:       | AC    | Prod. Type:    | A40060M | Elec. Spec: | A40WG1270 | CD Diagram:   | 416820-008 |
| Enclosure:  | TEFC  | Mfg Plant:     |         | Mech. Spec: |           | Layout:       | 617429-002 |
| Frame:      | 405TS | Mounting:      | F1      | Poles:      | 02        | Created Date: | 07-17-2013 |
| Base:       |       | Rotation:      | R       | Insulation: | F         | Eff. Date:    | 09-26-2016 |
| Leads:      | 6#4   |                |         |             |           | Replaced By:  |            |
| Literature: |       | Elec. Diagram: |         |             |           |               |            |

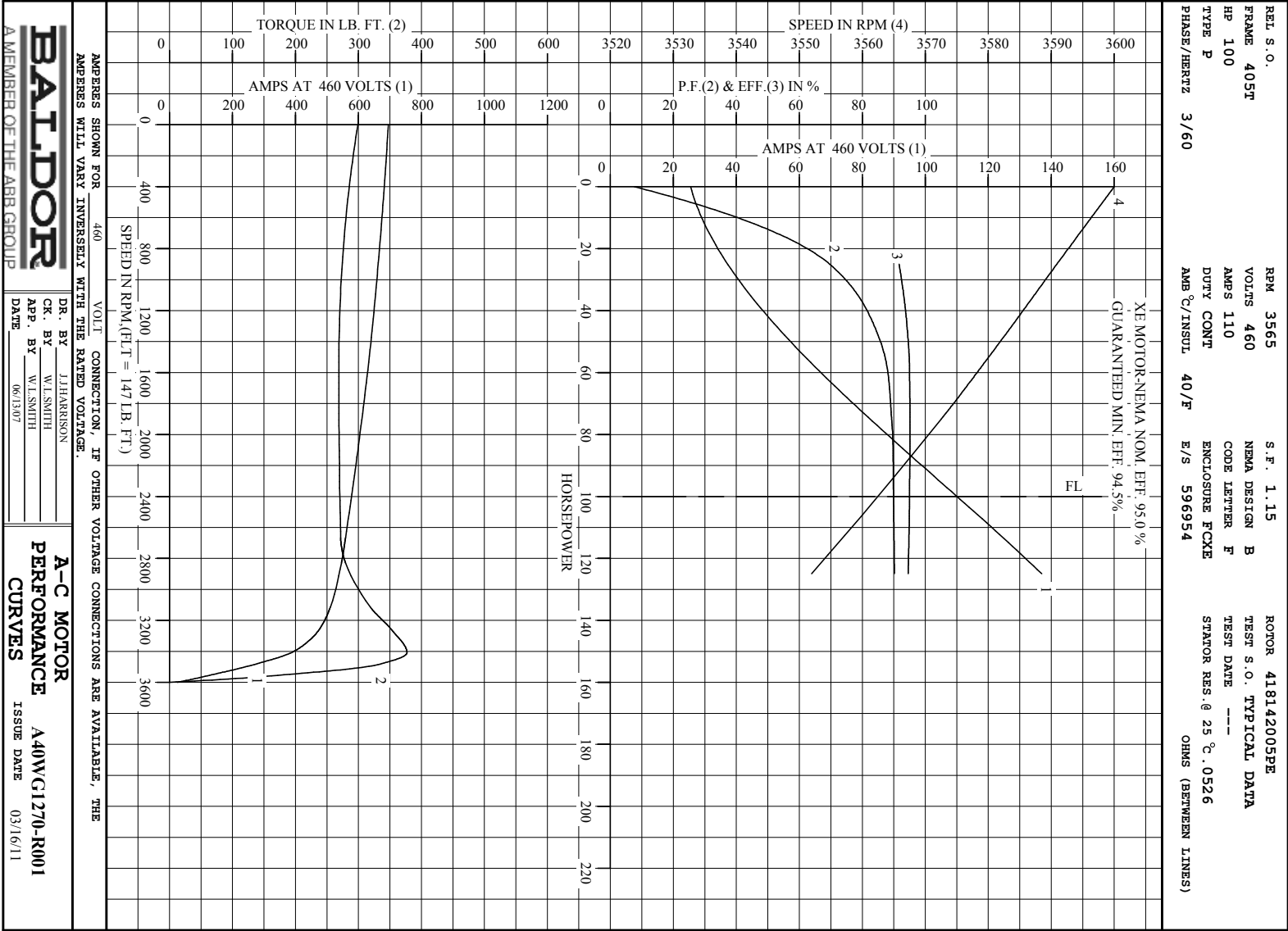
## Nameplate NP2383L

|                         |            |                       |          |
|-------------------------|------------|-----------------------|----------|
| CAT.NO.                 | EM4402T-4  | SPEC NO.              | P40G3929 |
| HP                      | 100        | AMPS                  | 110      |
| FRAME                   | 405TS      | RPM                   | 3565     |
| DRIVE END BEARING       | 65BC03J30X | HZ                    | 60       |
| OPP D.E. BEARING        | 65BC03J30X | AMB                   | 40       |
| SER.NO.                 |            | SF                    | 1.15     |
|                         |            | INSUL.CLASS           | F        |
|                         |            | PHASE                 | 3        |
|                         |            | DUTY                  | CONT     |
|                         |            | TYPE                  | P        |
|                         |            | ENCL                  | TEFC     |
|                         |            | CODE                  | F        |
|                         |            | POWER FACTOR          | 90       |
|                         |            | NEMA-NOM-EFFICIENCY   | 95       |
|                         |            | MAX CORR KVAR         | 10       |
|                         |            | GUARANTEED EFFICIENCY | 94.1     |
| NEMA NOM/CSA QUOTED EFF |            | MOTOR WEIGHT          | 1327     |

| Parts List  |                                        |          |
|-------------|----------------------------------------|----------|
| Part Number | Description                            | Quantity |
| SA267718    | SA P40G3929                            | 1.000 EA |
| RA254388    | RA P40G3929                            | 1.000 EA |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABLE  | 1.000 EA |
| NP2383L     | SUPER-E ,SS, CC, CSA-C US, CSA EEV     | 1.000 EA |
| 000692000FF | N/P                                    | 1.000 EA |
| 000692000VD | LABEL WARNING                          | 1.000 EA |
| 421948044   | LABEL, MYLAR                           | 1.000 EA |
| 004824015A  | GREASE POLYREX EM                      | 0.540 LB |
| 032018008CK | HHCS 3/8-16X1L PLATED                  | 4.000 EA |
| 032018008CK | HHCS 3/8-16X1L PLATED                  | 4.000 EA |
| 032018020EK | HHCS 5/8-11X2-1/2 PLTD.                | 4.000 EA |
| 032018024CK | HHCS 3/8-16X3 PLTD.                    | 3.000 EA |
| 034000014AB | WSH ID.406 OD.812 TH.065               | 4.000 EA |
| 034180012DA | KEY 1X4X1/4X1-1/2 L                    | 1.000 EA |
| 034530052AB | P/NIP 1/8X6-1/2 GALV.                  | 1.000 EA |
| 034530056BB | P/NIP 1/4X7 SCHED 40                   | 1.000 EA |
| 034690001AB | SQHDPLG, COND                          | 1.000 EA |
| 034692005AA | P PLUG 3/4"BLK.                        | 1.000 EA |
| 034631002AB | BUSH 1/4 TO 1/8 PLTD.                  | 1.000 EA |
| 034690001AB | SQHDPLG, COND                          | 1.000 EA |
| 083198101A  | G400 STD FAN COVER MACHINING           | 1.000 EA |
| 089413501A  | G400 FIN/MACH FT MTD BRKT 089413500WCA | 1.000 EA |
| 410700004F  | WSHR                                   | 1.000 EA |
| 415072001B  | CLAMP                                  | 1.000 EA |

| Parts List (continued) |                                         |          |
|------------------------|-----------------------------------------|----------|
| Part Number            | Description                             | Quantity |
| 415096002A             | CPLG 1/8 HEX TYPE                       | 1.000 EA |
| 702675001D             | FAN 250-440                             | 1.000 EA |
| 032018020EK            | HHCS 5/8-11X2-1/2 PLTD.                 | 4.000 EA |
| 032018024CK            | HHCS 3/8-16X3 PLTD.                     | 3.000 EA |
| 034690002AB            | "unbulked" PPLG 1/4" PLTD.              | 1.000 EA |
| 034690001AB            | SQHDPLG, COND                           | 1.000 EA |
| 089413501A             | G400 FIN/MACH FT MTD BRKT 089413500WCA  | 1.000 EA |
| 032018005AK            | HHCS 1/4-20X5/8 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 |
| 043292000AJ            | GASK 320-400                            | 1.000 EA |
| 077176000L             | C/BOX, PAINTED 360-400                  | 1.000 EA |
| 077176001A             | CBOXC, PAINTED 360-400                  | 1.000 EA |
| 402731001A             | GASK 360-440                            | 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 |
| MG1000Y03              | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,     | 0.375 GA |
| 033775004EA            | DRSCR #6-1/4 304 S.S.                   | 2.000 EA |
| 034180022GA            | KEY 1/2X1/2X2-3/4 L                     | 1.000 EA |
| 604797045              | STD. 400 FRAME SKID                     | 1.000 EA |

| Accessories |                                |            |
|-------------|--------------------------------|------------|
| Part Number | Description                    | Multiplier |
| 089412083B  | C-FACE BRKT 400 089416083WCB   | P1         |
| 089412075B  | D-FLANGE BRKT 400 089416085WCA | P1         |



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# DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

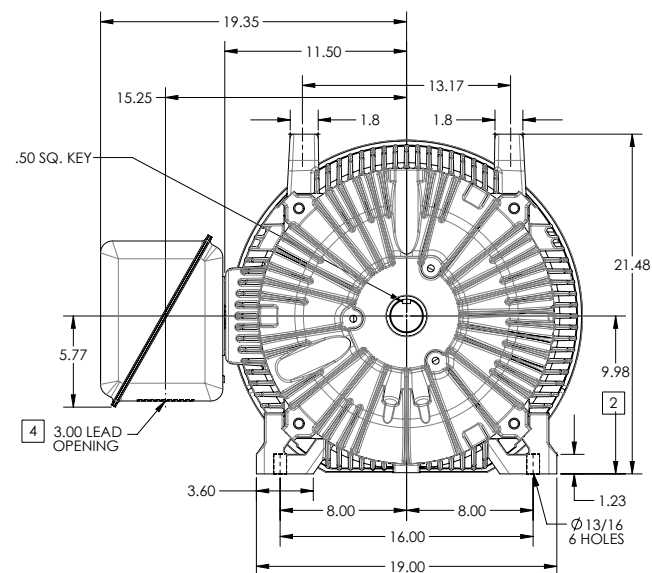
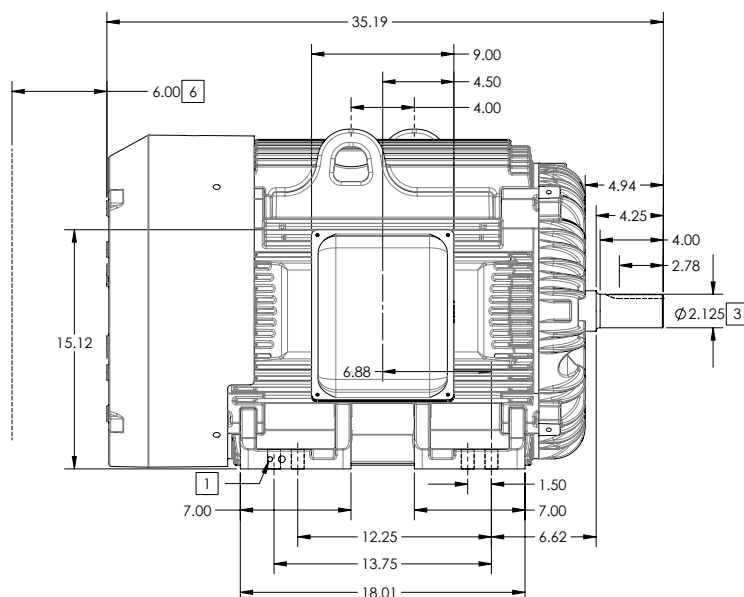
FRAME G405TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TS FRAME MOUNTING HOLES

STANDARD INDUSTRIAL ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.00,-.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 NOT 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): 1160**

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**

000-6272119

|                                        |                              |
|----------------------------------------|------------------------------|
| REV. DESC: CHANGE BA FROM 6.76 TO 6.62 | TDR: 000000848770            |
| REV: B VERSION: 02                     | REVISED: 04/37/41 04/14/2014 |
| MODEL NO. 617429-002                   | REF:                         |
| BY: MGHUMZ2                            | Material:                    |

**BALDOR**

G405TS/404TS STD - FOOTED - STANDARD ENCLOSURE

## DUTY MASTER ALTERNATING CURRENT MOTORS

### SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

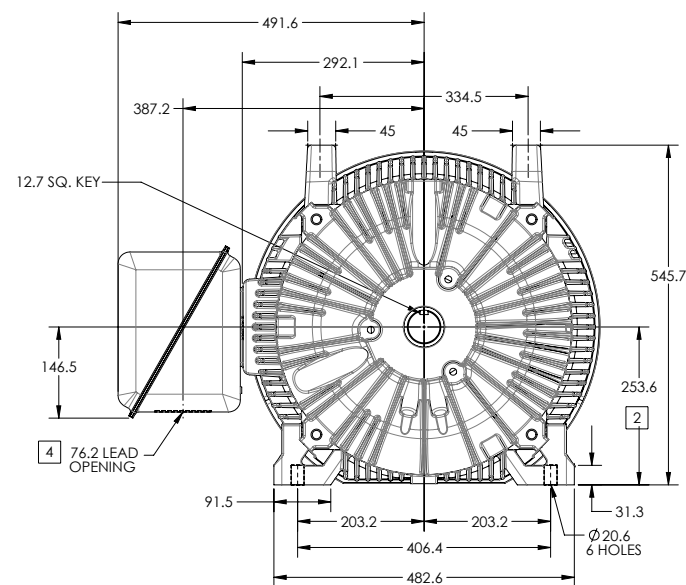
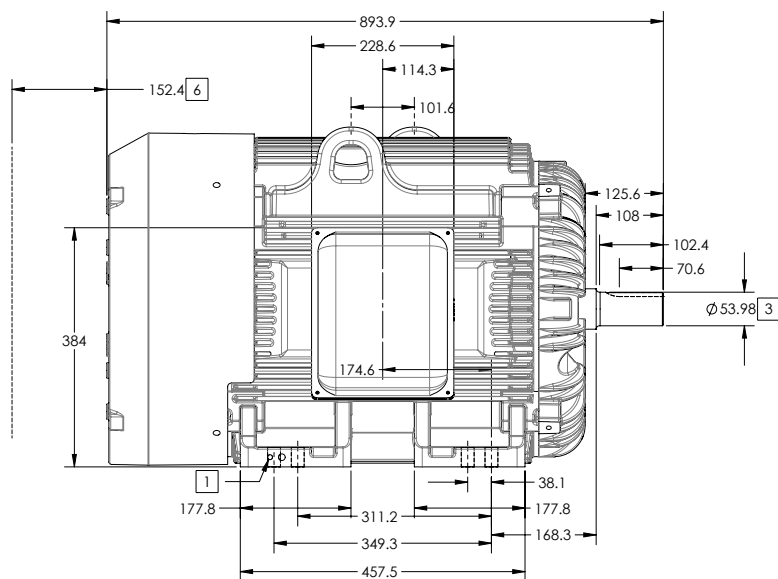
FRAME G405TS ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404TS FRAME MOUNTING HOLES

STANDARD INDUSTRIAL ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +0,-1.5
3. VARIES +00,-.03
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 NOT 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): 530**

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

000-6272119

|                                        |                              |
|----------------------------------------|------------------------------|
| REV. DESC: CHANGE BA FROM 6.76 TO 6.62 | TDR: 000000848770            |
| REV: B VERSION: 02                     | REVISED: 04/37/41 04/14/2014 |
| MODEL NO. 617429-002                   | REF:                         |
| BY: MGHUMZ2                            | Material:                    |

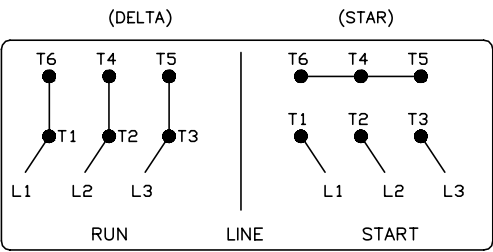
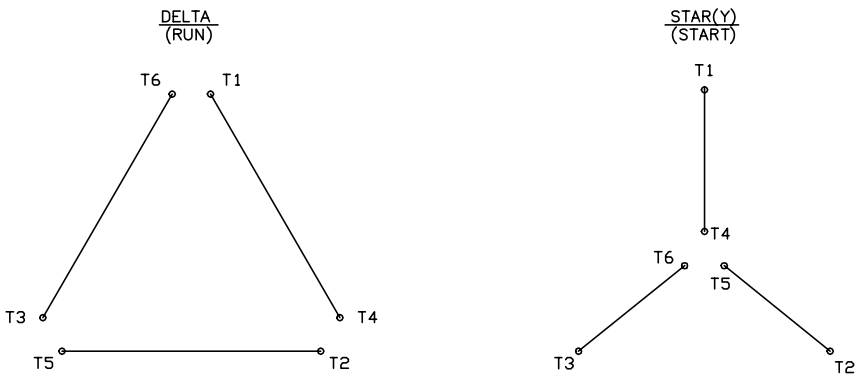
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G405TS/404TS STD - FOOTED - STANDARD ENCLOSURE

416820-008

A-C MOTOR  
CONNECTION DIAGRAM

STANDARD 6 LEAD      Y START – DELTA RUN



< N. P. 1767-DC >

|                                          |                                |                   |
|------------------------------------------|--------------------------------|-------------------|
| REV. DESC: ADDED T4 TO Y CONNECT DIAGRAM |                                |                   |
| REV. LTR: D                              | VERSION: 04                    | TDR: 000000847713 |
| FILE: \RAG\00001\808                     | REVISED: 10: 41: 26 04/08/2014 | BY: RAGJSS1       |
| MTL: -                                   |                                |                   |

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CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN  
SH 1 of 1

416820-008