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# Customer information packet

## ECP4400T-5

100HP, 1785RPM, 3PH, 60HZ, 405T, A40064M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                               |                         |
|-------------------------------|-------------------------|
| Enclosure                     | TEFC                    |
| Frame                         | 405T                    |
| Frame Material                | Iron                    |
| Frequency                     | 60.00 Hz                |
| Haz Area Class and Group      | CL I GP A,B,C,D         |
| Haz Area Division             | Division II             |
| Motor Letter Type             | Three Phase             |
| Output @ Frequency            | 100.000 HP @ 60 HZ      |
| Phase                         | 3                       |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ        |
| Voltage @ Frequency           | 575.0 V @ 60 HZ         |
| Agency Approvals              | CCSA US<br>CCSAUSEEV    |
| Ambient Temperature           | 40 °C                   |
| Auxiliary Box                 | NO AUXILLARY BOX        |
| Base Indicator                | Rigid                   |
| Bearing Grease Type           | Polyrex EM (-20F +300F) |
| Constant Torque Speed Range   | 0.6-60                  |
| Current @ Voltage             | 89.600 A @ 575.0 V      |
| Design Code                   | B                       |
| Drip Cover                    | No Drip Cover           |
| Duty Rating                   | CONT                    |
| Efficiency @ 100% Load        | 95.4 %                  |
| Enclosure Modification        | 841                     |
| Feedback Device               | NO FEEDBACK             |
| Haz Area Temp Code            | T3                      |
| Heater Indicator              | No Heater               |
| High Voltage Full Load Amps   | 89.6 a                  |
| Insulation Class              | F                       |
| Inverter Code                 | Inverter Ready          |
| KVA Code                      | G                       |
| Lifting Lugs                  | Standard Lifting Lugs   |

## Part detail

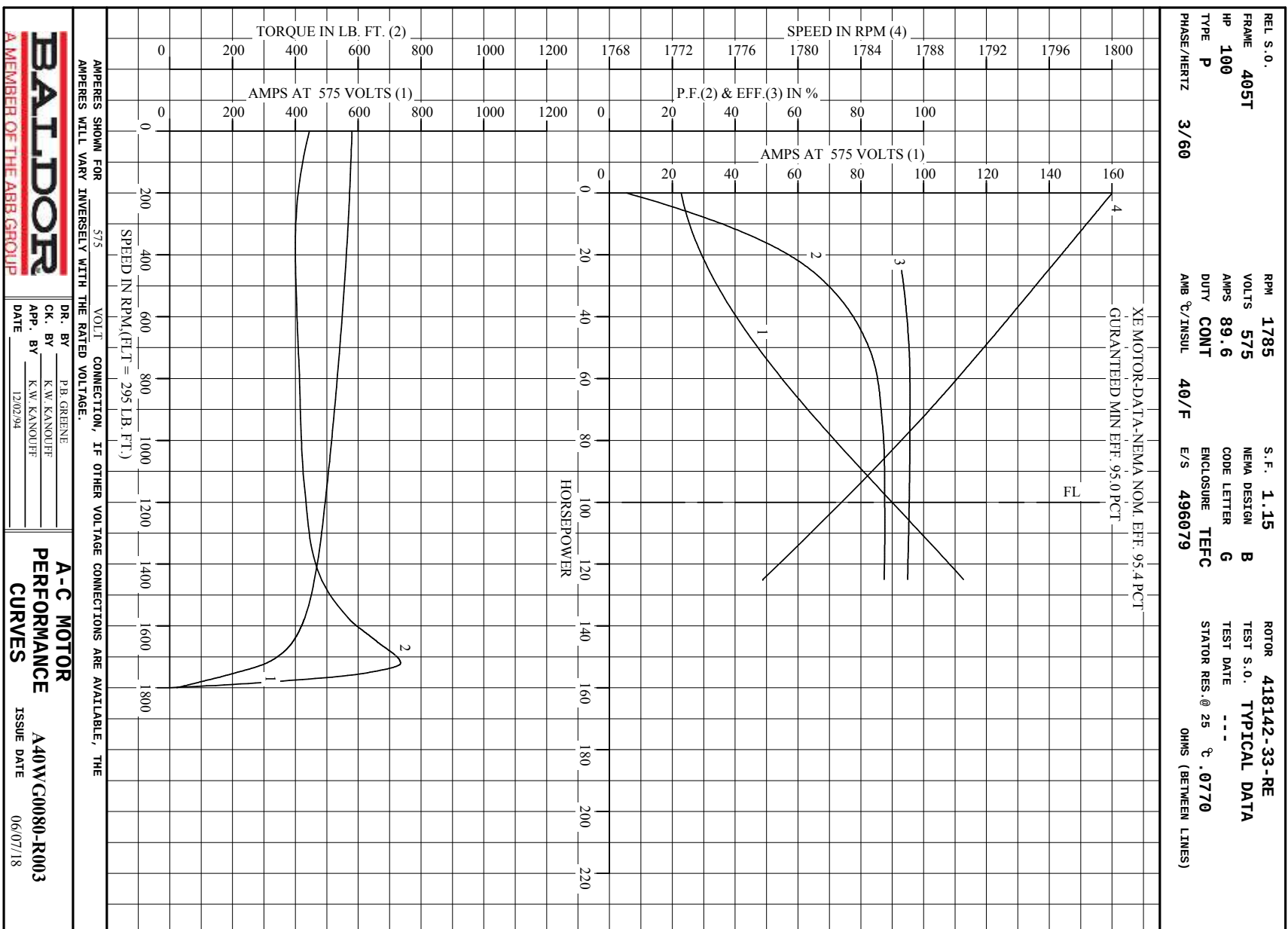
|              |            |
|--------------|------------|
| Revision     | S          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A40WG0080  |
| Layout       | 617429-501 |
| Eff. date    | 10-24-2024 |
| CD Diagram   | 416820-036 |
| Poles        | 04         |
| Leads        | 3#2        |
| Proprietary  | False      |
| Created date | 07-15-2013 |

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 2 AWG          |
| <b>Motor Standards</b>               | NEMA               |
| <b>Motor Type</b>                    | A40064M            |
| <b>Mounting Arrangement</b>          | F1                 |
| <b>Number of Poles</b>               | 4                  |
| <b>Overall Length</b>                | 38.04 IN           |
| <b>Power Factor</b>                  | 87                 |
| <b>Pulley End Bearing Type</b>       | Ball               |
| <b>Pulley Face Code</b>              | Standard           |
| <b>Service Factor</b>                | 1.15               |
| <b>Shaft Diameter</b>                | 2.875 IN           |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding |
| <b>Shaft Rotation</b>                | Reversible         |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger      |
| <b>Speed</b>                         | 1785 rpm           |
| <b>Speed Code</b>                    | Single Speed       |
| <b>Starting Method</b>               | Direct on line     |
| <b>Thermal Device - Bearing</b>      | None               |
| <b>Thermal Device - Winding</b>      | None               |

### Nameplate

| NP3238             |            |        |                 |              |       |          |      |                       |        |      |      |             |   |
|--------------------|------------|--------|-----------------|--------------|-------|----------|------|-----------------------|--------|------|------|-------------|---|
| CAT NO             | ECP4400T-5 |        |                 | SPEC NO.     |       | P40G3903 |      |                       |        |      |      |             |   |
| HP                 | 100        | AMPS   | 89.6            |              | VOLTS |          | 575  |                       | DESIGN | B    |      |             |   |
| FRAME              | 405T       | RPM    | 1785            | HZ           | 60    | AMB      | 40   | SF                    | 1.15   |      |      |             |   |
| D.E. BRG.DATA      | 6316       |        | O.D.E. BRG.DATA |              |       | 6316     |      | PH                    | 3      | DUTY | CONT | INSUL.CLASS | F |
| D.E. BRG.          | 80BC03J30X |        |                 | TYPE         | P     | ENCL     | TEFC | CODE                  | G      |      |      |             |   |
| O.D.E. BRG.        | 80BC03J30X |        |                 | POWER FACTOR |       |          | 87   | NEMA NOM EFFICIENCY   |        |      | 95.4 |             |   |
| 3/4 LOAD EFF.      | 95.7       |        | MAX CORR KVAR   |              |       | 18.00    |      | GUARANTEED EFFICIENCY |        |      | 94.5 |             |   |
| TEMP CODE          | T3         | TEMP = |                 | 200          |       |          |      |                       |        |      |      |             |   |
| CHP HZ             | 60-90      | CT HZ  | 10-60           |              | VT HZ | 0-60     |      |                       |        |      |      |             |   |
| INVERTER-TEMP-CODE | T3         |        |                 |              |       |          |      |                       |        |      |      |             |   |
| SER.NO.            |            |        |                 | MOTOR WEIGHT |       |          |      |                       |        |      |      |             |   |





|                  |                   |                |                           |                        |
|------------------|-------------------|----------------|---------------------------|------------------------|
| REL. S.O.        | FRAME 405T        | RPM 1785       | S.F. 1.15                 | ROTOR 418142-33-RE     |
| HP 100           | VOLTS 575         | AMPS 89.6      | NEMA DESIGN B             | TEST S.O. TYPICAL DATA |
| TYPE P           | DUTY CONT         | ENCLOSURE TEFC | CODE LETTER G             | TEST DATE ---          |
| PHASE/HERTZ 3/60 | AMB °C/INSUL 40/F | E/S 496079     | STATOR RES. @ 25 °C. 0770 | OHMS (BETWEEN LINES)   |

10.00

9

8

7

6

5

4

3

2

1.00

9

8

7

6

5

4

3

2

1

0

200

400

600

800

1000

1200

1400

TIME IN SEC.

ACCELERATION

LOCKED-ROTOR, 40 C

LOCKED-ROTOR

OVERLOAD

MOTOR INITIAL TEMPERATURE:  
119C FOR OVERLOAD AND ACC  
119 C FOR LOCKED-ROTOR

% FULL LOAD CURRENT

REMARKS:

THERMAL LIMIT CURVE

XE MOTOR-DATA-NEMA NOM. EFF. 95.4 PCT

GURANTEED MIN EFF. 95.0 PCT

AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

|         |               |
|---------|---------------|
| DR. BY  | P.B. GREENE   |
| CK. BY  | K.W. KANDOLFE |
| APP. BY | K.W. KANDOLFE |
| DATE    | 12/02/94      |

A-C MOTOR PERFORMANCE A40WG0080-R003

ISSUE DATE 06/07/18

## DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

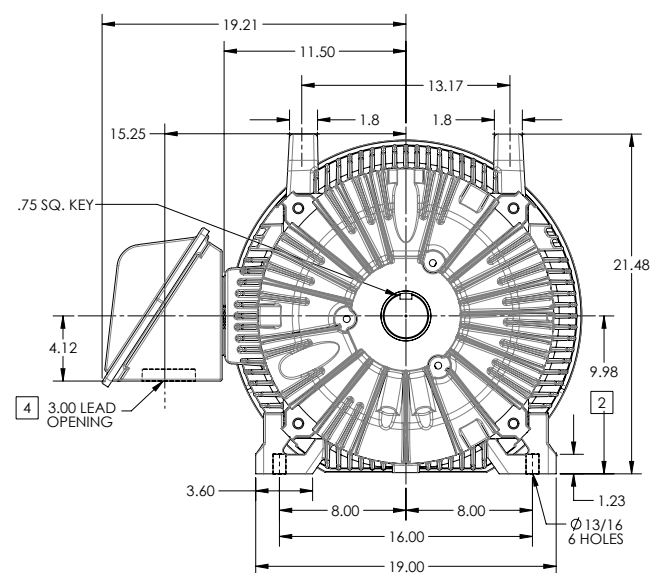
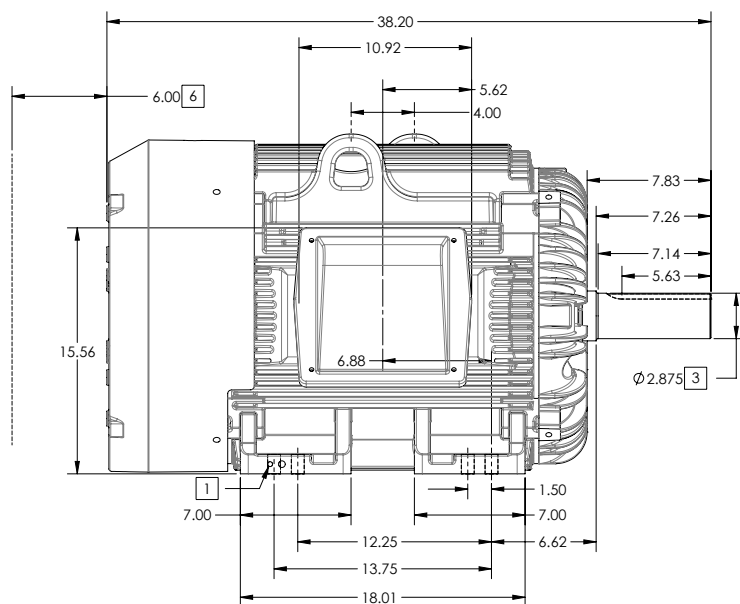
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

XT/ECP SEVERE DUTY 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): 1370

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

105-627219

REV. DESC: CHANGE BA FROM 6.76 TO 6.62

REV: B VERSION: 02

REVISED: 01-11-16 04/14/2014

TDR: 000000848770

MODEL NO. 617429-501

REF:

BY: MGHUMZ2

Material:

**BALDOR**

G405T/404T STD - FOOTED - XT/ECP SEVERE DUTY ENCLOSURE

617429-501

## DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

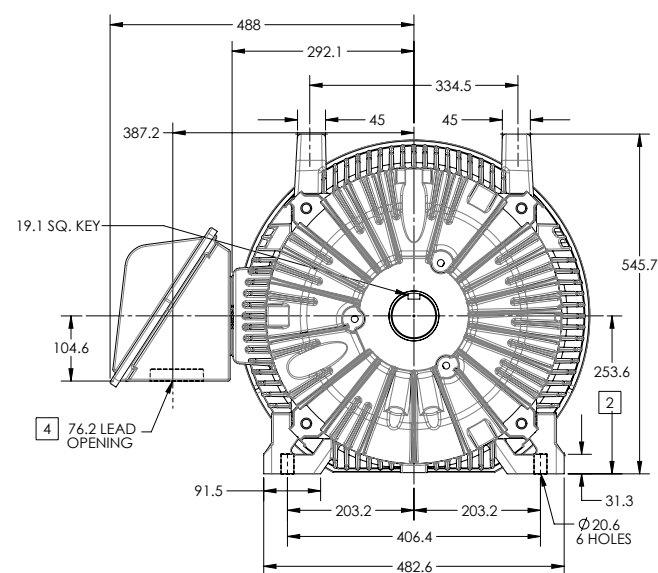
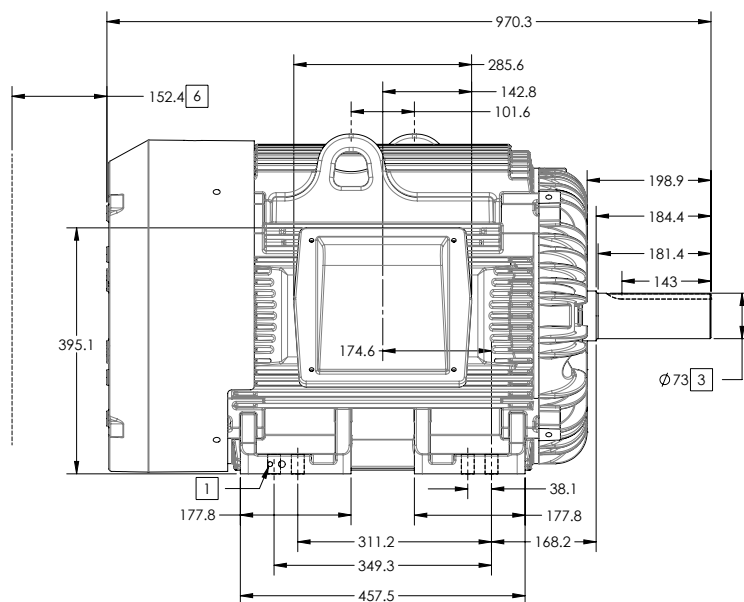
FRAME G405T ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 404T FRAME MOUNTING HOLES

XT/ECP SEVERE DUTY 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): 630

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

105-627219

|                                        |                              |
|----------------------------------------|------------------------------|
| REV. DESC: CHANGE BA FROM 6.76 TO 6.62 | TDR: 000000848770            |
| REV: B VERSION: 02                     | REVISED: 01-11-16 04/14/2014 |
| MODEL NO. 617429-501                   | REF:                         |
| BY: MGHUMZ2                            | Material:                    |

**BALDOR**

G405T/404T STD - FOOTED - XT/ECP SEVERE DUTY ENCLOSURE

617429-501

416820-036

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 3 LEAD                      CONNECTED



(N.P. 1575-BA)

|                                      |             |                                |
|--------------------------------------|-------------|--------------------------------|
| REV. DESC: LOADED TO BUS, C/R 335225 |             |                                |
| REV. LTR: -                          | VERSION: 00 | TDR: 000000538207              |
| FILE: \MGA\00000\682                 |             | REVISED: 11: 54: 06 04/30/2010 |
| MTL: -                               |             | BY: RAGRA                      |

**BALDOR**

CONN DIAG - STANDARD 3 LEAD  
SH 1 of 1

416820-036