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# Customer information packet

## ECP4403T

60HP, 1185RPM, 3PH, 60HZ, 404T, A40064M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Enclosure                     | TEFC                                                             |
| Frame                         | 404T                                                             |
| 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            | 60.000 HP @ 60 HZ                                                |
| Phase                         | 3                                                                |
| Synchronous Speed @ Frequency | 1200 RPM @ 60 HZ                                                 |
| Voltage @ Frequency           | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                               |
| Agency Approvals              | CCSAUSEEV                                                        |
| Ambient Temperature           | 40 °C                                                            |
| Auxiliary Box                 | NO AUXILLARY BOX                                                 |
| Base Indicator                | Rigid                                                            |
| Bearing Grease Type           | Polyrex EM (-20F +300F)                                          |
| Constant Torque Speed Range   | 6-60                                                             |
| Current @ Voltage             | 138.000 A @ 230.0 V<br>152.000 A @ 208.0 V<br>69.000 A @ 460.0 V |
| Design Code                   | B                                                                |
| Drip Cover                    | No Drip Cover                                                    |
| Duty Rating                   | CONT                                                             |
| Efficiency @ 100% Load        | 95.0 %                                                           |
| Feedback Device               | NO FEEDBACK                                                      |
| Haz Area Temp Code            | T3A                                                              |
| Heater Indicator              | No Heater                                                        |
| High Voltage Full Load Amps   | 69.0 a                                                           |
| Insulation Class              | F                                                                |
| Inverter Code                 | Inverter Ready                                                   |
| KVA Code                      | G                                                                |

## Part detail

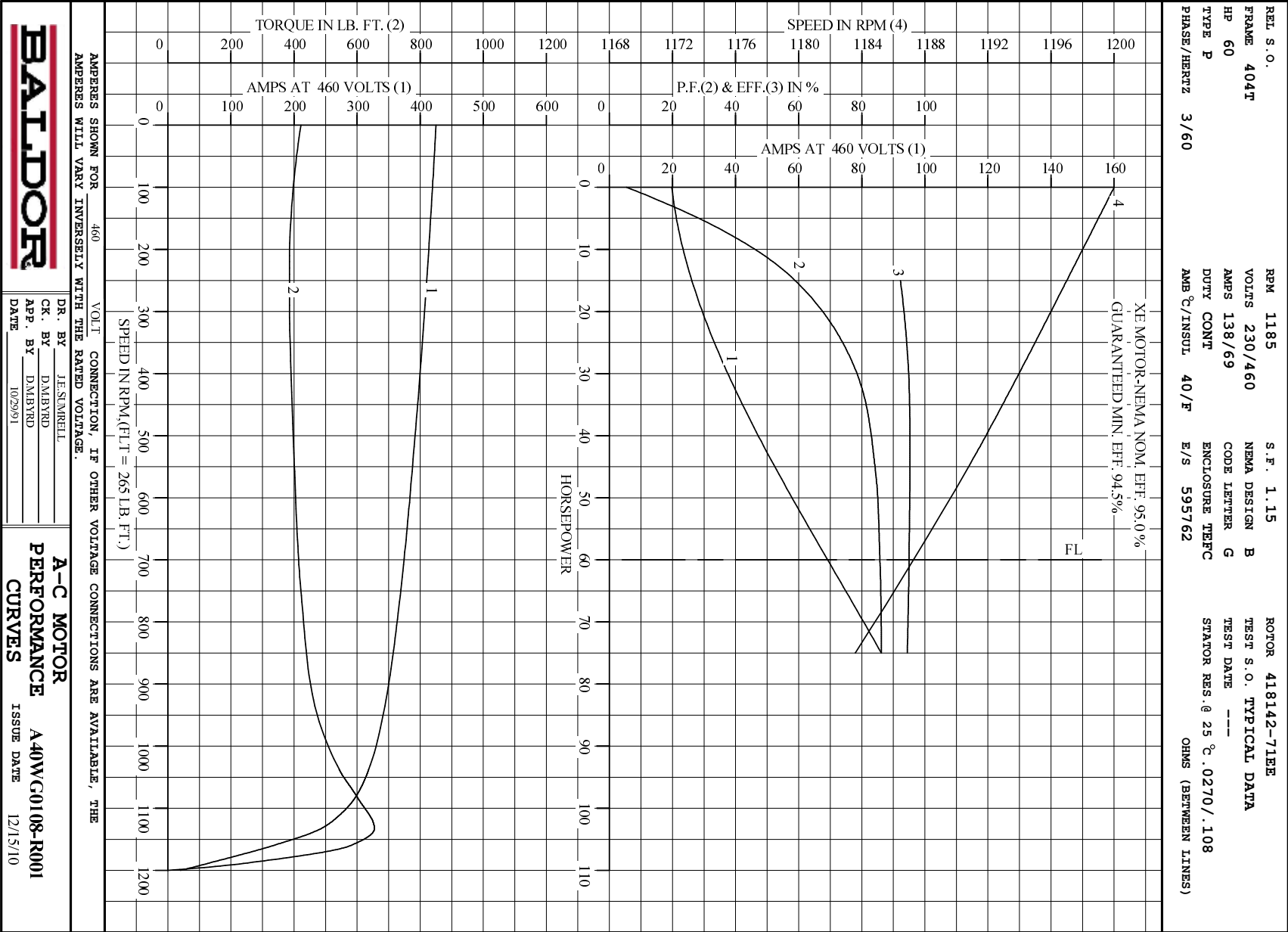
|              |            |
|--------------|------------|
| Revision     | P          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A40WG0108  |
| Layout       | 617429-501 |
| Eff. date    | 10-31-2025 |
| CD Diagram   | 416820-002 |
| Poles        | 06         |
| Leads        | 3#4,6#6    |
| Proprietary  | False      |
| Created date | 07-15-2013 |

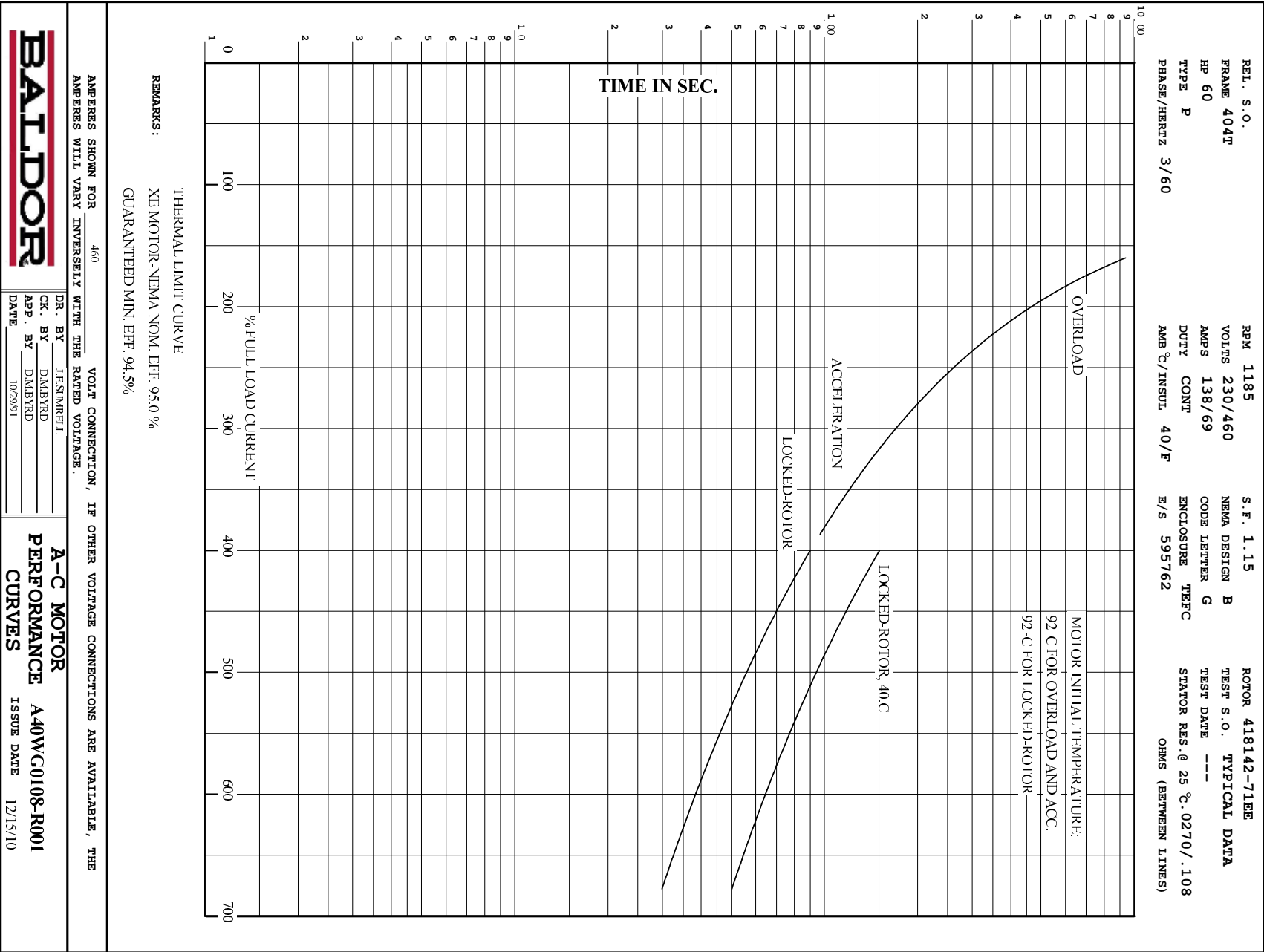
| Lifting Lugs                  | Standard Lifting Lugs |
|-------------------------------|-----------------------|
| Motor Lead Quantity/Wire Size | 3 @ 4 AWG             |
| Motor Standards               | NEMA                  |
| Motor Type                    | A40064M               |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 6                     |
| Overall Length                | 38.20 IN              |
| Power Factor                  | 86                    |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 2.875 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1185 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |
| Thermal Device - Winding      | None                  |

### Nameplate

| NP3238             |            |        |                 |              |       |          |         |                       |                     |      |      |             |   |  |
|--------------------|------------|--------|-----------------|--------------|-------|----------|---------|-----------------------|---------------------|------|------|-------------|---|--|
| CAT NO             | ECP4403T   |        |                 | SPEC NO.     |       | P40G3907 |         |                       |                     |      |      |             |   |  |
| HP                 | 60         | AMPS   | 138/69          |              | VOLTS |          | 230/460 |                       | DESIGN              | B    |      |             |   |  |
| FRAME              | 404T       | RPM    | 1185            | 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 |       |          | 86      |                       | NEMA NOM EFFICIENCY |      |      | 95          |   |  |
| 3/4 LOAD EFF.      | 95.2       |        | MAX CORR KVAR   |              |       | 12.5     |         | GUARANTEED EFFICIENCY |                     |      | 94.1 |             |   |  |
| TEMP CODE          | T3A        | TEMP = |                 | 180          |       |          |         |                       |                     |      |      |             |   |  |
| CHP HZ             | 60-90      | CT HZ  | 6-60            |              | VT HZ | 0-60     |         |                       |                     |      |      |             |   |  |
| INVERTER-TEMP-CODE | T3A        |        |                 |              |       |          |         |                       |                     |      |      |             |   |  |
| SER.NO.            |            |        |                 | MOTOR WEIGHT |       |          |         |                       |                     |      |      |             |   |  |

|                                                                                                                                               |             |                                                                            |                   |                                                                        |                 |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------|-----------------|---------|
| REL.<br>S.O.                                                                                                                                  | FRAME       | HP                                                                         | TYPE              | PHASE/<br>HERTZ                                                        | RPM             | VOLTS   |
|                                                                                                                                               | 404T        | 60                                                                         | P                 | 3/60                                                                   | 1185            | 230/460 |
|                                                                                                                                               |             |                                                                            |                   |                                                                        |                 |         |
| AMPS                                                                                                                                          | DUTY        | AMB °C/<br>INSUL.                                                          | S.F.              | NEMA<br>DESIGN                                                         | CODE<br>LETTER  | ENCL.   |
| 138/69                                                                                                                                        | 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)                             |                 |         |
| 595762                                                                                                                                        | 418142-71EE | ---                                                                        | ---               | .0270/.108                                                             |                 |         |
| PERFORMANCE                                                                                                                                   |             |                                                                            |                   |                                                                        |                 |         |
| LOAD                                                                                                                                          | HP          | AMPERES                                                                    | RPM               | %<br>POWER FACTOR                                                      | %<br>EFFICIENCY |         |
| NO LOAD                                                                                                                                       | 0           | 19.9                                                                       | 1200              | 5.36                                                                   | 0               |         |
| 1/4                                                                                                                                           | 15.0        | 25.9                                                                       | 1197              | 58.9                                                                   | 92.3            |         |
| 2/4                                                                                                                                           | 30.0        | 37.7                                                                       | 1194              | 78.5                                                                   | 94.9            |         |
| 3/4                                                                                                                                           | 45.0        | 52.5                                                                       | 1191              | 84.2                                                                   | 95.2            |         |
| 4/4                                                                                                                                           | 60.0        | 69.0                                                                       | 1187              | 85.8                                                                   | 95.0            |         |
| 5/4                                                                                                                                           | 75.0        | 86.3                                                                       | 1184              | 86.2                                                                   | 94.4            |         |
|                                                                                                                                               |             |                                                                            |                   |                                                                        |                 |         |
| SPEED TORQUE                                                                                                                                  |             |                                                                            |                   |                                                                        |                 |         |
|                                                                                                                                               |             |                                                                            |                   |                                                                        |                 |         |
|                                                                                                                                               | RPM         | TORQUE<br>% FULL LOAD                                                      | TORQUE<br>LB.-FT. | AMPERES                                                                |                 |         |
| LOCKED ROTOR                                                                                                                                  | 0           | 159                                                                        | 422               | 425                                                                    |                 |         |
| PULL UP                                                                                                                                       | 240         | 145                                                                        | 385               | 411                                                                    |                 |         |
| BREAKDOWN                                                                                                                                     | 1133        | 247                                                                        | 655               | 243                                                                    |                 |         |
| FULL LOAD                                                                                                                                     | 1187        | 100                                                                        | 265               | 69.0                                                                   |                 |         |
| AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE<br>AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE |             |                                                                            |                   |                                                                        |                 |         |
| REMARKS: TYPICAL DATA<br>XE MOTOR-NEMA NOM. EFF. 95.0 %<br>GUARANTEED MIN. EFF. 94.5%                                                         |             |                                                                            |                   |                                                                        |                 |         |
| <b>BALDOR</b>                                                                                                                                 |             | DR. BY J.E.SUMRELL<br>CK. BY D.M.BYRD<br>APP. BY D.M.BYRD<br>DATE 10/29/91 |                   | A-C MOTOR<br>PERFORMANCE DATA<br>A40WG0108-R001<br>ISSUE DATE 12/15/10 |                 |         |





## DUTY MASTER ALTERNATING CURRENT MOTORS

## SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

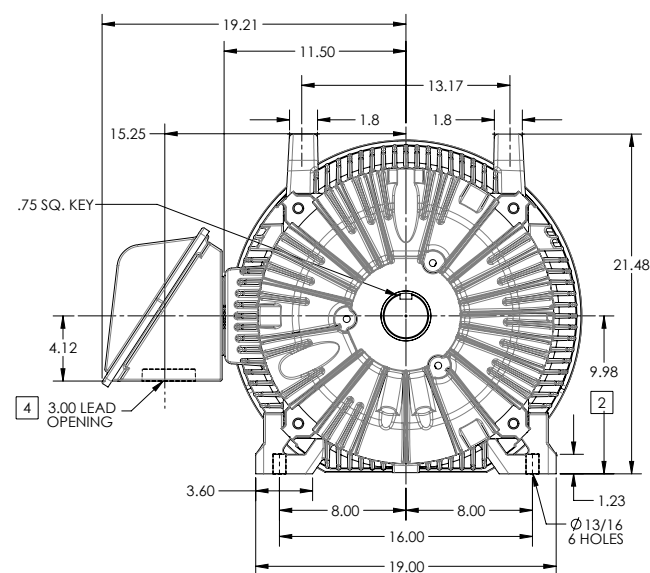
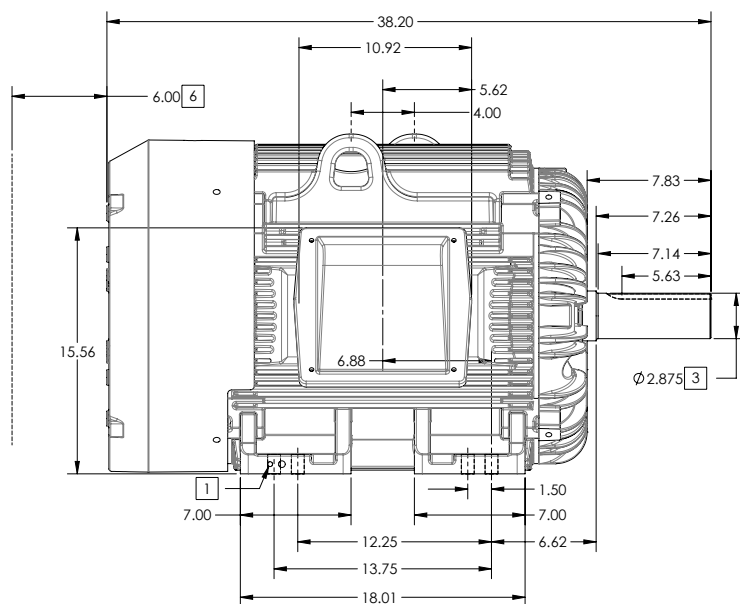
FRAME G405T ABOVE NEMA RATINGS

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 +.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 NOT ENCR OACH 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

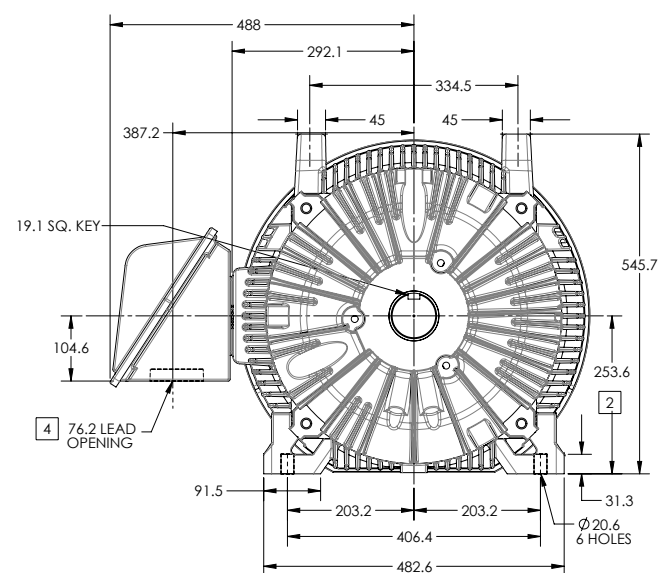
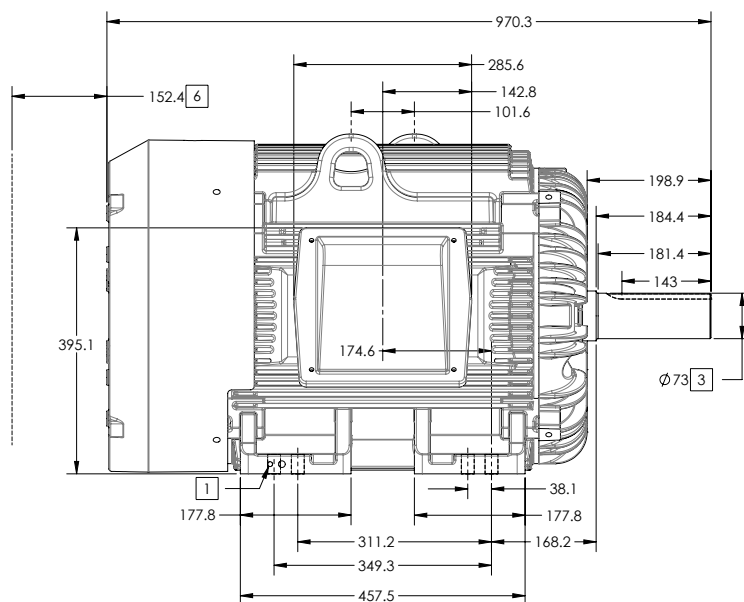
FRAME G405T ABOVE NEMA RATINGS

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 ENCR OACH 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

REV: B VERSION: 02

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

TDR: 000000848770

MODEL NO. 617429-501

REF:

BY: MGHUMZ2

Material:

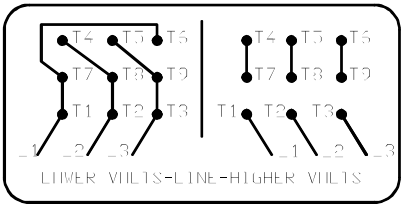
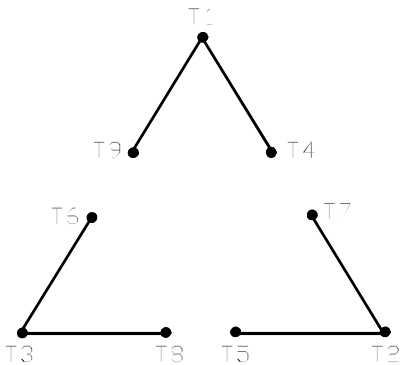
**BALDOR**

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

617429-501

416820-002

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 9 LEAD DELTA-CONNECTED



(N.P. 1575-B)

|                                           |                              |                   |
|-------------------------------------------|------------------------------|-------------------|
| REV. DESC: FONT CHANGE FOR PDF SEARCHABLE |                              |                   |
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| FILE: \MGA\00000\661                      | REVISED: 02:46:19 02/13/2020 | BY: MGHMTT        |
| MTL: —                                    |                              |                   |

BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED  
SH 1 of 1

416820-002