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# Customer information packet

## ECP84416T-5

200HP, 3575RPM, 3PH, 60HZ, 447TS, A44104M, TEF

Class - CLI GP A,B,C,D

Division - Division II

## Specifications

|                               |                         |
|-------------------------------|-------------------------|
| Enclosure                     | TEFC                    |
| Frame                         | 447TS                   |
| 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            | 200.000 HP @ 60 HZ      |
| Phase                         | 3                       |
| Synchronous Speed @ Frequency | 3600 RPM @ 60 HZ        |
| Voltage @ Frequency           | 575.0 V @ 60 HZ         |
| Agency Approvals              | CCSA US<br>UR           |
| Ambient Temperature           | 40 °C                   |
| Auxiliary Box                 | NO AUXILLARY BOX        |
| Base Indicator                | Rigid                   |
| Bearing Grease Type           | Polyrex EM (-20F +300F) |
| Constant Torque Speed Range   | 30-60                   |
| Current @ Voltage             | 172.000 A @ 575.0 V     |
| Design Code                   | B                       |
| Drip Cover                    | No Drip Cover           |
| Duty Rating                   | CONT                    |
| Efficiency @ 100% Load        | 95.4 %                  |
| Feedback Device               | NO FEEDBACK             |
| Haz Area Temp Code            | T2C                     |
| Heater Indicator              | No Heater               |
| High Voltage Full Load Amps   | 172.0 a                 |
| Insulation Class              | F                       |
| Inverter Code                 | Inverter Ready          |
| KVA Code                      | G                       |
| Lifting Lugs                  | No Lifting Lugs         |
| Motor Lead Quantity/Wire Size | 6 @ 1/0 AWG             |

## Part detail

|              |                      |
|--------------|----------------------|
| Revision     | A                    |
| Type         | AC                   |
| Mech. spec.  |                      |
| Base         |                      |
| Status       | PRD/A                |
| Elec. spec.  | A44WG3931            |
| Layout       | 617435-474           |
| Eff. date    | 06-14-2024           |
| CD Diagram   | 416820-036           |
| Poles        | 02                   |
| Leads        | 3#1/0 (02 per group) |
| Proprietary  | False                |
| Created date | 03-14-2022           |

|                                 |                            |
|---------------------------------|----------------------------|
| <b>Motor Standards</b>          | None                       |
| <b>Motor Type</b>               | A44104M                    |
| <b>Mounting Arrangement</b>     | F1                         |
| <b>No Load Current</b>          | 38.6 a                     |
| <b>Number of Poles</b>          | 2                          |
| <b>Overall Length</b>           | 44.72 IN                   |
| <b>Power Factor</b>             | 90                         |
| <b>Pulley End Bearing Type</b>  | Ball                       |
| <b>Pulley Face Code</b>         | Standard                   |
| <b>Service Factor</b>           | 1.15                       |
| <b>Shaft Diameter</b>           | 2.375 IN                   |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding         |
| <b>Shaft Rotation</b>           | Phase Seq-Std Rot (CCWODE) |
| <b>Shaft Slinger Indicator</b>  | No Slinger                 |
| <b>Speed</b>                    | 3575 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

| NP4566             |             |        |                 |               |       |               |       |    |                       |      |      |             |   |
|--------------------|-------------|--------|-----------------|---------------|-------|---------------|-------|----|-----------------------|------|------|-------------|---|
| CAT NO             | ECP84416T-5 |        |                 | SPEC NO.      |       | A44-0000-3931 |       |    |                       |      |      |             |   |
| HP                 | 200         | AMPS   | 172             |               | VOLTS |               | 575   |    | DESIGN                |      | B    |             |   |
| FRAME SIZE         | 447TS       | RPM    | 3575            | HZ            |       | 60            | AMB   | 40 | SF                    | 1.15 |      |             |   |
| D.E. BRG.DATA      | 6313        |        | O.D.E. BRG.DATA |               |       | 6313          |       | PH | 3                     | DUTY | CONT | INSUL.CLASS | F |
| D.E. BRG.          | 65BC03J30X  |        |                 | TYPE          | ENCL  | TEFC          | CODE  | G  |                       |      |      |             |   |
| O.D.E. BRG.        | 65BC03J30X  |        |                 | POWER FACTOR  |       |               | 90    |    | NEMA-NOM-EFFICIENCY   |      |      | 95.4        |   |
| 3/4 LOAD EFF.      |             | IP     | 56              | MAX CORR KVAR |       |               | 24.34 |    | GUARANTEED EFFICIENCY |      |      | 94.5        |   |
| TEMP CODE          | T2C         | TEMP = | 230             |               |       |               |       |    |                       |      |      |             |   |
| CHP HZ             | 60-75       | CT HZ  | 30-60           | VT HZ         | 0-60  |               |       |    |                       |      |      |             |   |
| INVERTER-TEMP-CODE | T2C         |        |                 |               |       |               |       |    |                       |      |      |             |   |
| SER.NO.            |             |        |                 | MOTOR WEIGHT  |       |               |       |    |                       |      |      |             |   |

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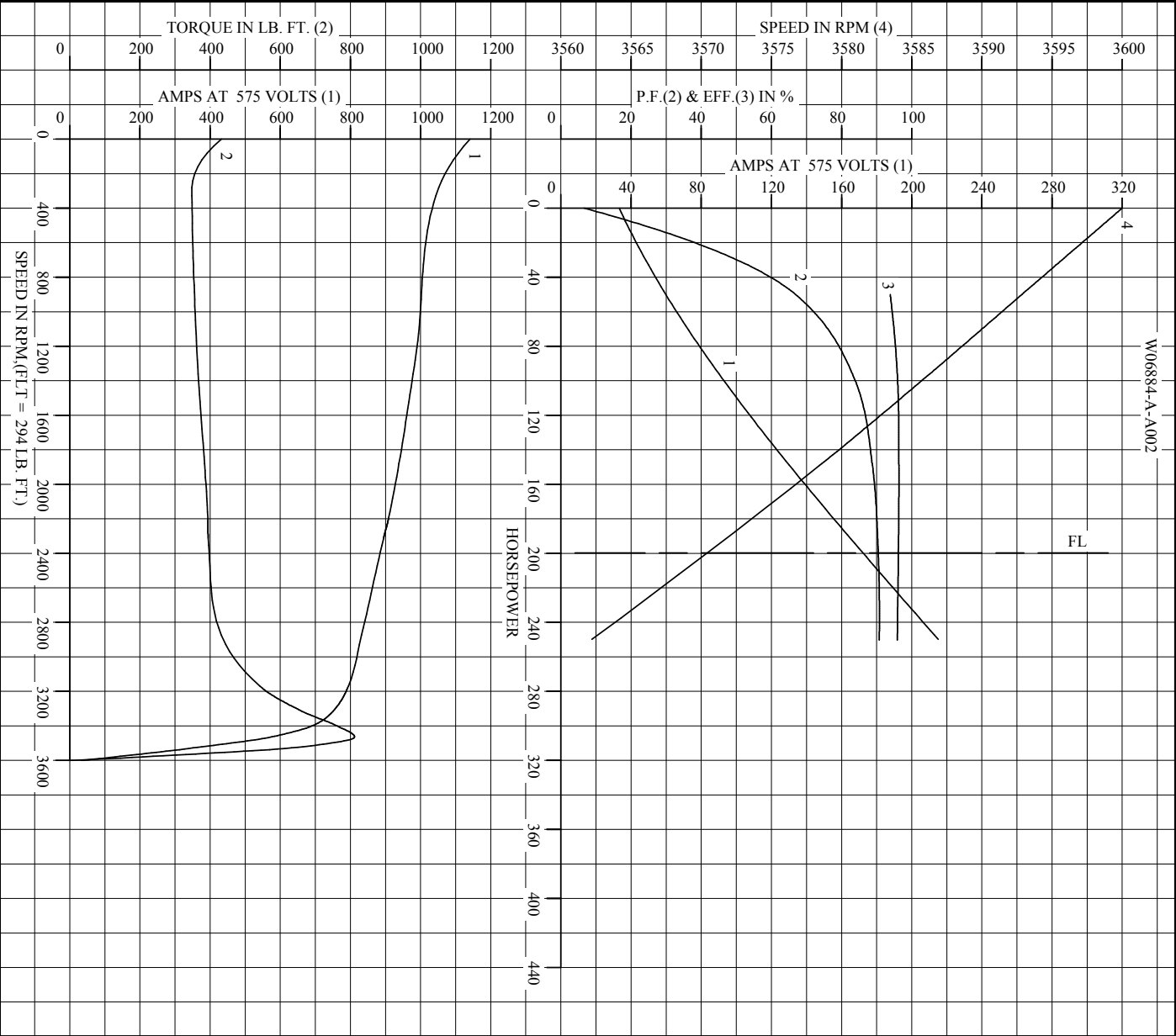
**000613007EX**

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|                        |             |                                 |               |
|------------------------|-------------|---------------------------------|---------------|
| <b>CAT NO</b>          | ECP84416T-5 | <b>SPEC NO.</b>                 | A44-0000-3931 |
| <b>NO. ROTOR BARS</b>  | 40          | <b>GREASE TYPE</b>              | POLYREX EM    |
| <b>NO. SLOTS</b>       | 48          | <b>NL AMPS AT RATED VOLTAGE</b> | 38.6          |
| <b>5 YEAR WARRANTY</b> |             | <b>WINDING RES @25 C</b>        | .0227         |
| <b>MFG. DATE</b>       |             | <b>SER.NO</b>                   |               |
|                        |             |                                 |               |
|                        |             |                                 |               |

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|                  |  |                   |                |                           |
|------------------|--|-------------------|----------------|---------------------------|
| REL S.O.         |  | RPM 3570          | S.F. 1.15      | ROTOR 418143005AE         |
| FRAME 447T       |  | VOLTS 575         | NEMA DESIGN B  | TEST S.O. CALCULATED DATA |
| HP 200           |  | AMPS 172          | CODE LETTER G  | TEST DATE ---             |
| TYPE P           |  | DUTY CONT         | ENCLOSURE FCYE | STATOR RES. @ 25 °C .0226 |
| PHASE/HERTZ 3/60 |  | AMB °C/INSUL 40/F | E/S 833331     | OHMS (BETWEEN LINES)      |



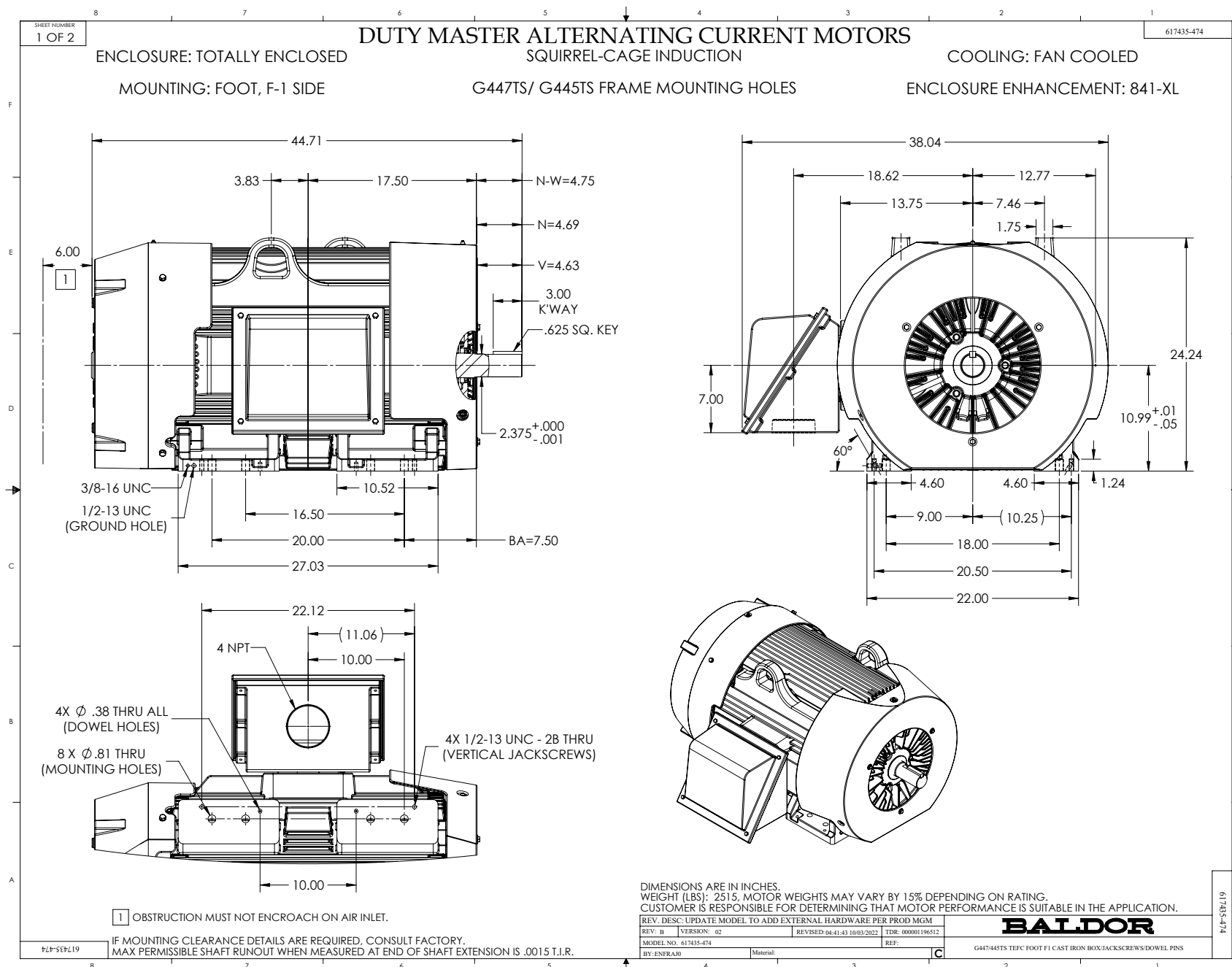
**BALDOR**  
A MEMBER OF THE ABB GROUP

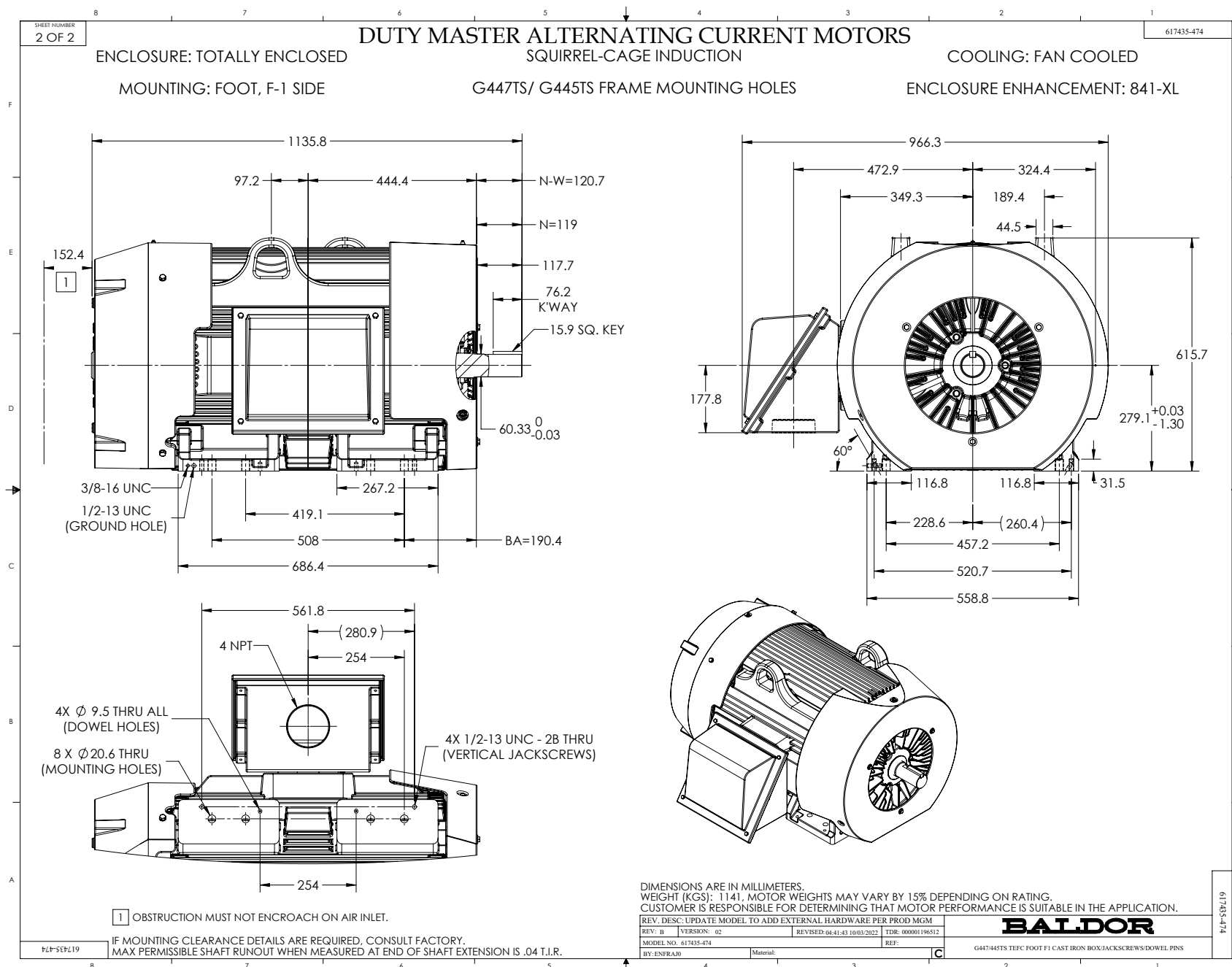
DR. BY J.HARRISON  
CK. BY W.L. SMITH  
APP. BY W.L. SMITH  
DATE 07/18/11

**A-C MOTOR**  
**PERFORMANCE** A44WG3931-R001  
**CURVES** ISSUE DATE 07/18/11

Printed on 7/18/11 12:41 @ ragsun

|                                                                                                                                               |             |                                                                                  |                   |                                                                        |                 |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------|-----------------|-------|
| REL.<br>S.O.                                                                                                                                  | FRAME       | HP                                                                               | TYPE              | PHASE/<br>HERTZ                                                        | RPM             | VOLTS |
|                                                                                                                                               | 447T        | 200                                                                              | P                 | 3/60                                                                   | 3570            | 575   |
|                                                                                                                                               |             |                                                                                  |                   |                                                                        |                 |       |
| AMPS                                                                                                                                          | DUTY        | AMB °C/<br>INSUL.                                                                | S.F.              | NEMA<br>DESIGN                                                         | CODE<br>LETTER  | ENCL. |
| 172                                                                                                                                           | CONT        | 40/F                                                                             | 1.15              | B                                                                      | G               | FCXE  |
|                                                                                                                                               |             |                                                                                  |                   |                                                                        |                 |       |
| E/S                                                                                                                                           | ROTOR       | TEST<br>S.O.                                                                     | TEST<br>DATE      | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES)                             |                 |       |
| 833331                                                                                                                                        | 418143005AE | ---                                                                              | ---               | .0226                                                                  |                 |       |
| PERFORMANCE                                                                                                                                   |             |                                                                                  |                   |                                                                        |                 |       |
| LOAD                                                                                                                                          | HP          | AMPERES                                                                          | RPM               | %<br>POWER FACTOR                                                      | %<br>EFFICIENCY |       |
| NO LOAD                                                                                                                                       | 0           | 33.3                                                                             | 3600              | 6.61                                                                   | 0               |       |
| 1/4                                                                                                                                           | 50.0        | 59.7                                                                             | 3593              | 66.9                                                                   | 93.9            |       |
| 2/4                                                                                                                                           | 100         | 93.1                                                                             | 3586              | 83.9                                                                   | 96.0            |       |
| 3/4                                                                                                                                           | 150         | 131                                                                              | 3578              | 88.8                                                                   | 96.3            |       |
| 4/4                                                                                                                                           | 200         | 172                                                                              | 3571              | 90.5                                                                   | 96.2            |       |
| 5/4                                                                                                                                           | 250         | 215                                                                              | 3562              | 90.8                                                                   | 95.9            |       |
|                                                                                                                                               |             |                                                                                  |                   |                                                                        |                 |       |
| SPEED TORQUE                                                                                                                                  |             |                                                                                  |                   |                                                                        |                 |       |
|                                                                                                                                               |             |                                                                                  |                   |                                                                        |                 |       |
|                                                                                                                                               | RPM         | TORQUE<br>% FULL LOAD                                                            | TORQUE<br>LB.-FT. | AMPERES                                                                |                 |       |
| LOCKED ROTOR                                                                                                                                  | 0           | 147                                                                              | 432               | 1141                                                                   |                 |       |
| PULL UP                                                                                                                                       | 288         | 119                                                                              | 349               | 1051                                                                   |                 |       |
| BREAKDOWN                                                                                                                                     | 3464        | 276                                                                              | 812               | 573                                                                    |                 |       |
| FULL LOAD                                                                                                                                     | 3571        | 100                                                                              | 294               | 172                                                                    |                 |       |
| AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE<br>AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE |             |                                                                                  |                   |                                                                        |                 |       |
| REMARKS: CALCULATED DATA<br>W06884-A-A002                                                                                                     |             |                                                                                  |                   |                                                                        |                 |       |
| <b>BALDOR</b><br>A MEMBER OF THE ABB GROUP                                                                                                    |             | DR. BY J.J. HARRISON<br>CK. BY W.L. SMITH<br>APP. BY W.L. SMITH<br>DATE 07/18/11 |                   | A-C MOTOR<br>PERFORMANCE DATA<br>A44WG3931-R001<br>ISSUE DATE 07/18/11 |                 |       |





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 |             |                                |
| 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