

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP844206TR-4

200HP, 1190RPM, 3PH, 60HZ, 449T, TEFC, FOOT,  
Class - CLI GP A,B,C,D  
Division - Division II

**Specifications**

|                               |                             |
|-------------------------------|-----------------------------|
| Enclosure                     | TEFC                        |
| Frame                         | 449T                        |
| Frame Material                | Iron                        |
| Frequency                     | 60.00 Hz                    |
| Haz Area Class and Group      | CLI 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 | 1200 RPM @ 60 HZ            |
| Voltage @ Frequency           | 460.0 V @ 60 HZ             |
| Agency Approvals              | UR<br>CCSA US               |
| Ambient Temperature           | 40 °C                       |
| Auxiliary Box                 | NO AUXILLARY BOX            |
| Base Indicator                | Rigid                       |
| Bearing Grease Type           | Mobil SHC 220 (Athens Only) |
| Constant Torque Speed Range   | 30-60                       |
| Current @ Voltage             | 225.000 A @ 460.0 V         |
| Design Code                   | B                           |
| Drip Cover                    | No Drip Cover               |
| Duty Rating                   | CONT                        |
| Efficiency @ 100% Load        | 95.8 %                      |
| Enclosure Modification        | 841                         |
| Feedback Device               | NO FEEDBACK                 |
| Haz Area Temp Code            | T3                          |
| Heater Indicator              | No Heater                   |
| High Voltage Full Load Amps   | 225.0 a                     |
| Insulation Class              | F                           |
| Inverter Code                 | Not Inverter                |
| IP Rating                     | IP56                        |
| KVA Code                      | G                           |

**Part Detail**

|              |                    |
|--------------|--------------------|
| Revision     | F                  |
| Type         | AC                 |
| Mech. spec.  |                    |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | A44WG1497          |
| Layout       | 617434-667         |
| Eff. date    | 02-24-2025         |
| CD Diagram   | 416820-036         |
| Poles        | 06                 |
| Leads        | 3#1 (02 per group) |
| Proprietary  | False              |
| Created date | 12-12-2018         |

| Lifting Lugs                  | No Lifting Lugs            |
|-------------------------------|----------------------------|
| Motor Lead Quantity/Wire Size | 6 @ 1 AWG                  |
| Motor Standards               | None                       |
| Motor Type                    | A44160M                    |
| Mounting Arrangement          | F1                         |
| No Load Current               | 55.3 a                     |
| Number of Poles               | 6                          |
| Overall Length                | 53.27 IN                   |
| Power Factor                  | 87                         |
| Pulley End Bearing Type       | Roller                     |
| Pulley Face Code              | C-Face                     |
| Service Factor                | 1.15                       |
| Shaft Diameter                | 3.375 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Phase Seq-Std Rot (CCWODE) |
| Shaft Slinger Indicator       | No Slinger                 |
| Speed                         | 1190 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | None                       |

**Nameplate**

| NP4566             |               |        |       |                 |  |               |      |      |                     |                       |    |                       |    |  |
|--------------------|---------------|--------|-------|-----------------|--|---------------|------|------|---------------------|-----------------------|----|-----------------------|----|--|
| CAT NO             | ECP844206TR-4 |        |       | SPEC NO.        |  | A44-8470-1497 |      |      |                     |                       |    |                       |    |  |
| HP                 | 200           | AMPS   |       | 225             |  | VOLTS         |      | 460  |                     | DESIGN                |    | B                     |    |  |
| FRAME SIZE         | 449T          | RPM    |       | 1190            |  | HZ            |      | 60   | AMB                 |                       | 40 | SF 1.15               |    |  |
| D.E. BRG.DATA      | NU222         |        |       | O.D.E. BRG.DATA |  |               | 6318 |      | PH                  |                       | 3  | DUTY CONT INSUL.CLASS |    |  |
| D.E. BRG.          | 110RU02M30X   |        |       | TYPE ENCL       |  | TEFC          |      | CODE |                     | G                     |    |                       |    |  |
| O.D.E. BRG.        | 90BC03J30X    |        |       | POWER FACTOR    |  |               | 87   |      | NEMA-NOM-EFFICIENCY |                       |    | 95.8                  |    |  |
| 3/4 LOAD EFF.      | 96.1          | IP     | 56    | MAX CORR KVAR   |  |               |      | 35.0 |                     | GUARANTEED EFFICIENCY |    |                       | 95 |  |
| TEMP CODE          | T3            | TEMP = |       | 200             |  |               |      |      |                     |                       |    |                       |    |  |
| CHP HZ             | 60-90         | CT HZ  | 30-60 | VT HZ           |  | 0-60          |      |      |                     |                       |    |                       |    |  |
| INVERTER-TEMP-CODE | T3            |        |       |                 |  |               |      |      |                     |                       |    |                       |    |  |
| SER.NO.            |               |        |       | MOTOR WEIGHT    |  |               |      |      |                     |                       |    |                       |    |  |

| 000613007EX     |               |                          |               |      |
|-----------------|---------------|--------------------------|---------------|------|
| CAT NO          | ECP844206TR-4 | SPEC NO.                 | A44-8470-1497 |      |
| NO. ROTOR BARS  | 71            | GREASE TYPE              | MOBIL SHC 220 |      |
| NO. SLOTS       | 90            | NL AMPS AT RATED VOLTAGE |               | 55.3 |
| 5 YEAR WARRANTY |               | WINDING RES @25 C        | .0220         | OHMS |
| MFG. DATE       |               | SER.NO                   |               |      |
|                 |               |                          |               |      |
|                 |               |                          |               |      |

| NP2496L               |  |
|-----------------------|--|
| MOBIL SHC -220 GREASE |  |
|                       |  |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA364337    | SA A44-8470-1497                         | 1.000 ea |
| RA353661    | RA A44-8470-1497                         | 1.000 ea |
| 000613006PU | N/P (RELEASE QTY 10,000) UL CSA LABEL    | 1.000 ea |
| NP4566      | SS INV IEEE841-2021,CLI DIV2,CURUS-E,CSA | 1.000 ea |
| 000613007EX | SS IEEE 841 EMBOSSED AUXILIARY NAMEPLATE | 1.000 ea |
| 000692000FF | N/P                                      | 1.000 ea |
| 000692000JP | N/P                                      | 1.000 ea |
| 000692000RT | N/P                                      | 1.000 ea |
| 000692000VD | LABEL WARNING                            | 1.000 ea |
| 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 |
| 034600001AA | BUSH 1/4TO1/8 BLACK                      | 1.000 ea |
| 034630002AB | CPLG 1/4" PLATED                         | 1.000 ea |
| 034690005AB | PPLG 3/4 PLATED                          | 2.000 ea |
| 035000001G  | GREASE RELIEF FITTING, ALEMITE 317400    | 1.000 ea |
| 078550001H  | FAN KB 120/60 360                        | 1.000 ea |
| 083199082A  | G28 FAN COVER MACHINING SHORT VERSION    | 1.000 ea |
| 089490099D  | G28 BRKT 089490098WCA                    | 1.000 ea |
| 415028079H  | SEAL,.625 WIDE,318 BRG                   | 1.000 ea |
| 415072001B  | CLAMP                                    | 1.000 ea |
| 415096002A  | CPLG 1/8 HEX TYPE                        | 1.000 ea |
| 418151014G  | RETAIN RING                              | 1.000 ea |
| 423709011D  | WASHER                                   | 3.000 ea |
| 032018004BK | HHCS 5/16-18X1/2 PLATED                  | 3.000 ea |
| 032018006BK | HHCS 5/16-18X3/4 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 |
| 034530056AB | 1/8 X 7 PP NIPPLE                      | 1.000 ea |
| 415915007G  | GASK, LAC                              | 1.000 ft |
| 034530056BB | P/NIP 1/4X7 SCHED 40                   | 1.000 ea |
| 034600001AA | BUSH 1/4TO1/8 BLACK                    | 1.000 ea |
| 034630002AB | CPLG 1/4" PLATED                       | 1.000 ea |
| 035000001G  | GREASE RELIEF FITTING, ALEMITE 317400  | 1.000 ea |
| 089490101C  | G28 BRKT 089490100WCA                  | 1.000 ea |
| 415028079J  | INPRO SEAL,,625 WIDE,222 BRG           | 1.000 ea |
| 415096002A  | CPLG 1/8 HEX TYPE                      | 1.000 ea |
| 418151014H  | RETAIN RING                            | 1.000 ea |
| 423709011D  | WASHER                                 | 3.000 ea |
| 702623022A  | G28 AIR DEFLECTOR DRIVE END -- PLASTIC | 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 |
| 032018005DL | 1/2-13 X 5/8 SILICON BRONZE HHCS       | 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 |
| 076870000BA | CONDUIT BOX - 440 - 1/2-13 GROUND      | 1.000 ea |
| 076871000A  | +CBOX CVR BLKT - 449                   | 1.000 ea |
| 415039018A  | TERBD, 440                             | 1.000 ea |
| 406099000A  | PLUG - FAN COVER 320-440               | 1.000 ea |
| 415000115H  | T/LUG #2AWG-4/0AWG                     | 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 |
| 034180054KA | 7/8 SQ X 6.75 KEY                      | 1.000 ea |
| MG1025N19   | WILKO 778.50 BLUE GREEN - 55 GAL DRUMS | 0.500 ga |
| PK5005A01   | WOODEN BASE 449, 60 X 41-1/2           | 1.000 ea |
| 421948051   | LABEL, MYLAR                           | 1.000 ea |

|             |                         |          |
|-------------|-------------------------|----------|
| LB1449      | DIV-2/NEC WARNING LABEL | 1.000 ea |
| NP2496L     | MOTOR LUBE NAMEPLATE    | 1.000 ea |
| 004824015AP | GREASE MOBILITH SHC 220 | 1.160 lb |
| 412118006A  | DRAIN                   | 2.000 ea |

|                                                                                                                                                                                                                                            |              |                   |                       |                                              |                 |       |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|-----------------------|----------------------------------------------|-----------------|-------|--|--|
| REL.<br>S.O.                                                                                                                                                                                                                               | FRAME        | HP                | TYPE                  | PHASE/<br>HERTZ                              | RPM             | VOLTS |  |  |
|                                                                                                                                                                                                                                            | 449T         | 200               | P                     | 3/60                                         | 1190            | 460   |  |  |
| AMPS                                                                                                                                                                                                                                       | DUTY         | AMB °C/<br>INSUL. | S.F.                  | NEMA<br>DESIGN                               | CODE<br>LETTER  | ENCL. |  |  |
| 225                                                                                                                                                                                                                                        | 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)   |                 |       |  |  |
| 833245                                                                                                                                                                                                                                     | 418143-98-XE | ---               | ---                   | .0220                                        |                 |       |  |  |
| PERFORMANCE                                                                                                                                                                                                                                |              |                   |                       |                                              |                 |       |  |  |
| LOAD                                                                                                                                                                                                                                       | HP           | AMPERES           | RPM                   | %<br>POWER FACTOR                            | %<br>EFFICIENCY |       |  |  |
| NO LOAD                                                                                                                                                                                                                                    | 0            | 56.0              | 1200                  | 4.16                                         | 0               |       |  |  |
| 1/4                                                                                                                                                                                                                                        | 50.1         | 86.8              | 1197                  | 57.2                                         | 94.4            |       |  |  |
| 2/4                                                                                                                                                                                                                                        | 100          | 126               | 1194                  | 77.3                                         | 96.1            |       |  |  |
| 3/4                                                                                                                                                                                                                                        | 150          | 173               | 1191                  | 84.2                                         | 96.1            |       |  |  |
| 4/4                                                                                                                                                                                                                                        | 200          | 226               | 1188                  | 86.6                                         | 95.8            |       |  |  |
| 5/4                                                                                                                                                                                                                                        | 250          | 282               | 1185                  | 87.2                                         | 95.2            |       |  |  |
|                                                                                                                                                                                                                                            |              |                   |                       |                                              |                 |       |  |  |
| SPEED TORQUE                                                                                                                                                                                                                               |              |                   |                       |                                              |                 |       |  |  |
|                                                                                                                                                                                                                                            |              | RPM               | TORQUE<br>% FULL LOAD | TORQUE<br>LB.-FT.                            | AMPERES         |       |  |  |
| LOCKED ROTOR                                                                                                                                                                                                                               |              | 0                 | 132                   | 1163                                         | 1422            |       |  |  |
| PULL UP                                                                                                                                                                                                                                    |              | 240               | 96.3                  | 850                                          | 1408            |       |  |  |
| BREAKDOWN                                                                                                                                                                                                                                  |              | 1150              | 243                   | 2149                                         | 811             |       |  |  |
| FULL LOAD                                                                                                                                                                                                                                  |              | 1188              | 100                   | 883                                          | 226             |       |  |  |
| AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE<br>AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE<br><br>REMARKS: TYPICAL DATA<br>XE MOTOR-NEMA NOM. EFF. 95.8 %<br>GUARANTEED MIN. EFF. 95.0% |              |                   |                       |                                              |                 |       |  |  |
|                                                                                                                                                         |              | DR. BY            | G. R. WEBB            | <b>A-C MOTOR<br/>PERFORMANCE DATA</b>        |                 |       |  |  |
|                                                                                                                                                                                                                                            |              | CK. BY            | W. L. SMITH           |                                              |                 |       |  |  |
|                                                                                                                                                                                                                                            |              | APP. BY           | W. L. SMITH           |                                              |                 |       |  |  |
|                                                                                                                                                                                                                                            |              | DATE              | 10/08/10              |                                              |                 |       |  |  |
|                                                                                                                                                                                                                                            |              |                   |                       | <b>A44WG1497-R001</b><br>ISSUE DATE 01/06/21 |                 |       |  |  |

REL S.O.

 RPM **1190**

 S.F. **1.15**

 ROTOR **418143-98-XE**

 FRAME **449T**

 VOLTS **460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **200**

 AMPS **225**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

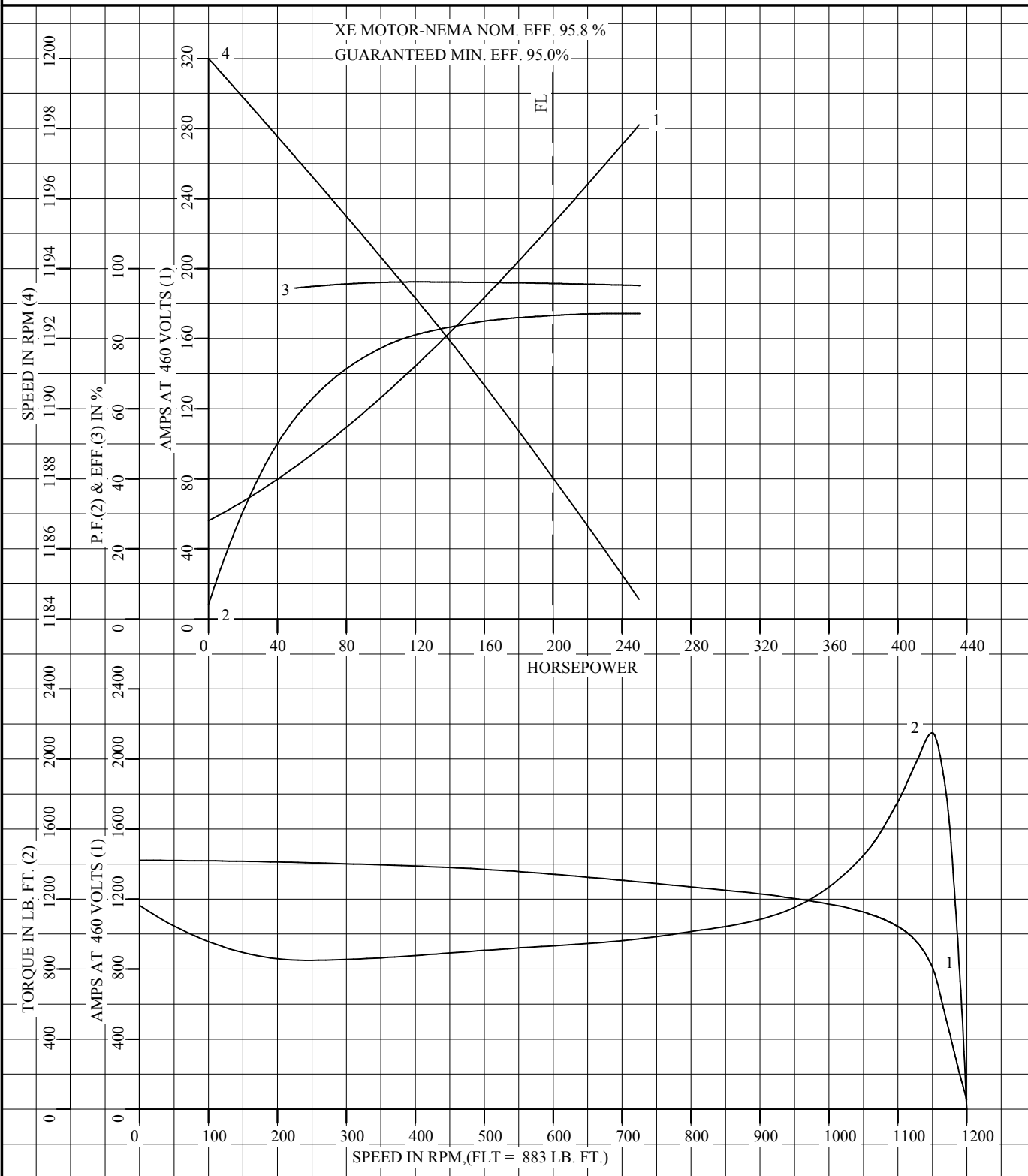
 STATOR RES. @ 25 °C **.0220**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **833245**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

**BALDOR**  
A MEMBER OF THE ABB GROUP

DR. BY G. R. WEBB  
CK. BY W. L. SMITH  
APP. BY W. L. SMITH  
DATE 10/08/10

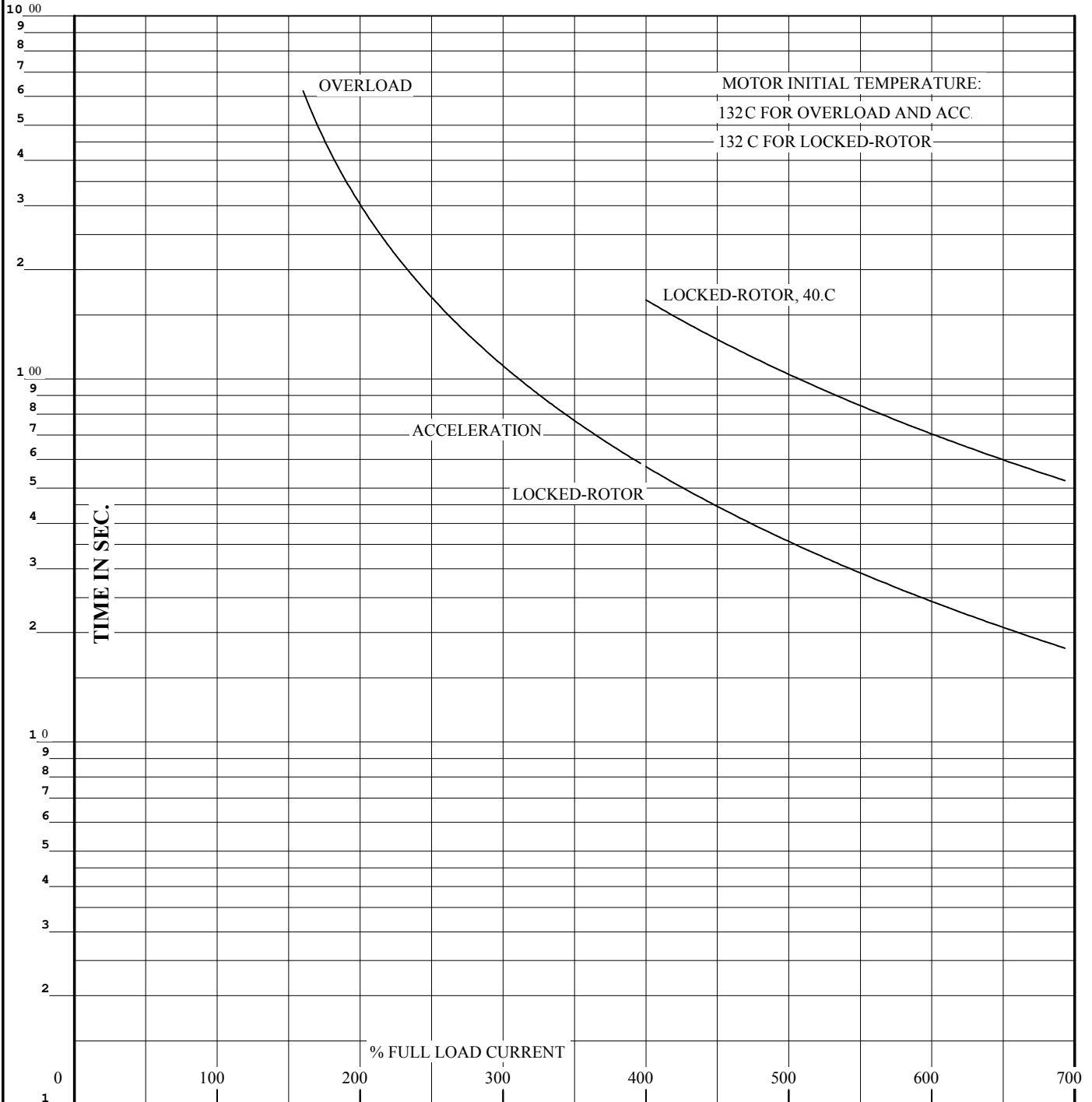
**A-C MOTOR  
PERFORMANCE  
CURVES**

**A44WG1497-R001**

ISSUE DATE 01/06/2015

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|                         |                          |                       |                                  |
|-------------------------|--------------------------|-----------------------|----------------------------------|
| REL. S.O.               | RPM <b>1190</b>          | S.F. <b>1.15</b>      | ROTOR <b>418143-98-XE</b>        |
| FRAME <b>449T</b>       | VOLTS <b>460</b>         | NEMA DESIGN <b>B</b>  | TEST S.O. <b>TYPICAL DATA</b>    |
| HP <b>200</b>           | AMPS <b>225</b>          | CODE LETTER <b>G</b>  | TEST DATE <b>---</b>             |
| TYPE <b>P</b>           | DUTY <b>CONT</b>         | ENCLOSURE <b>TEFC</b> | STATOR RES. @ 25 °C <b>.0220</b> |
| PHASE/HERTZ <b>3/60</b> | AMB °C/INSUL <b>40/F</b> | E/S <b>833245</b>     | OHMS (BETWEEN LINES)             |



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 %  
GUARANTEED MIN. EFF. 95.0%

AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

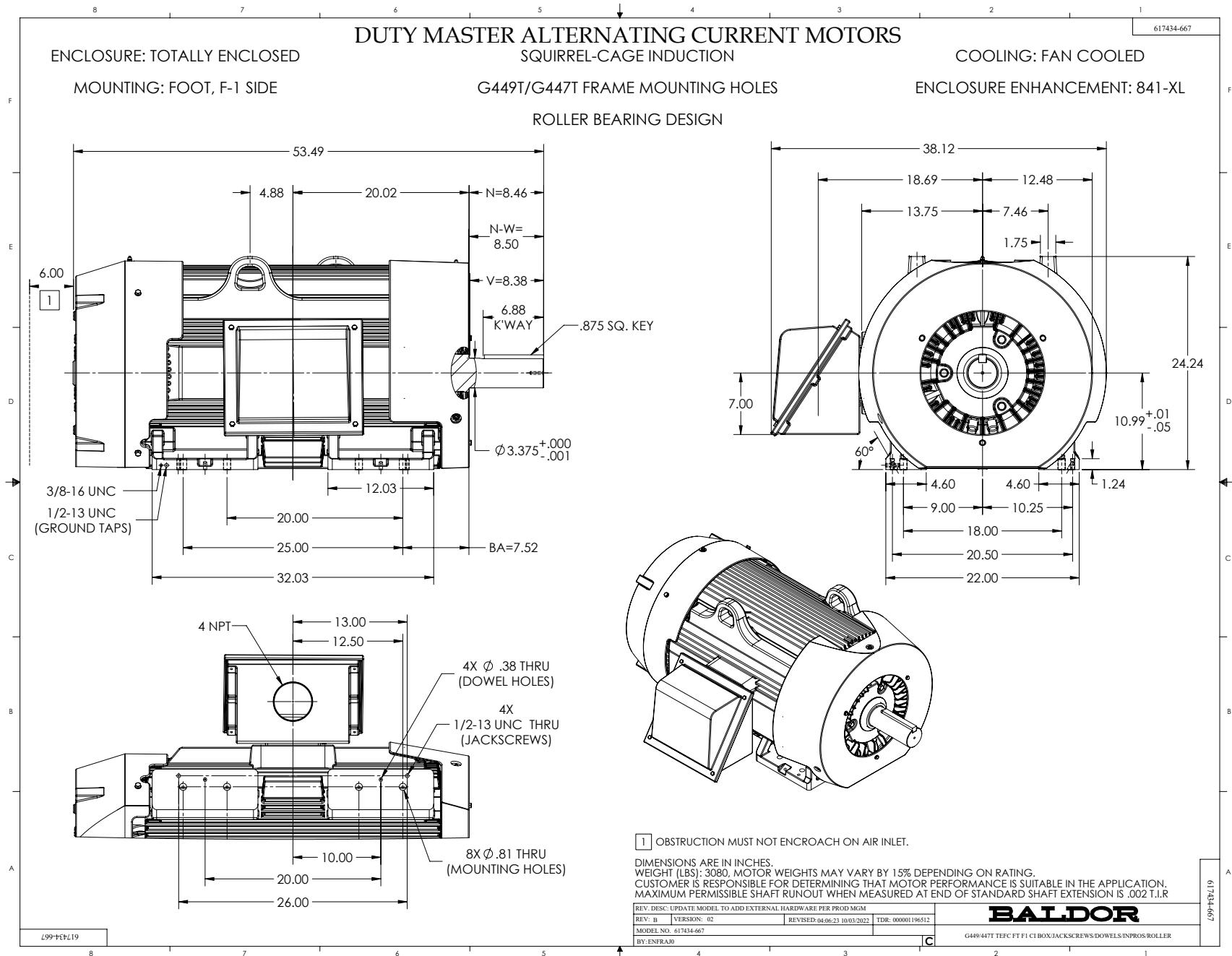


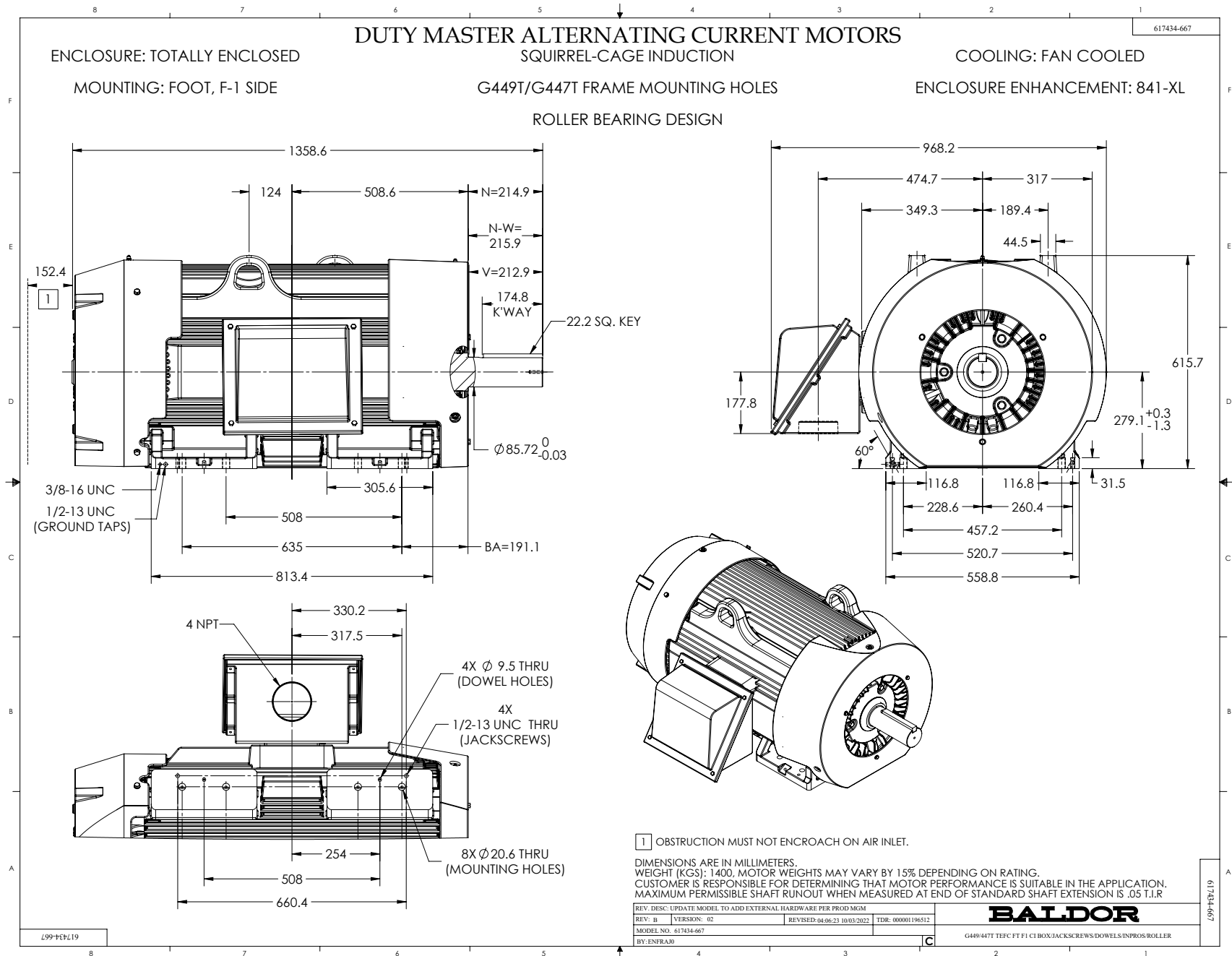
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|---------|-------------|
| DR. BY  | G. R. WEBB  |
| CK. BY  | W. L. SMITH |
| APP. BY | W. L. SMITH |
| DATE    | 10/08/10    |

**A-C MOTOR  
PERFORMANCE  
CURVES**

**A44WG1497-R001**

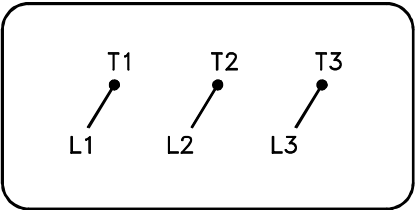
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416820-036

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