

# ABB BALDOR RELIANCE III

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## Customer information packet

### ECP44206TR-4

200HP, 1190RPM, 3PH, 60HZ, 449T, A44160M, TEFC

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              | CCSAUSEEV                   |
| 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        | Severe Duty Features        |
| 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                |
| KVA Code                      | G                           |
| Lifting Lugs                  | No Lifting Lugs             |
| Motor Lead Quantity/Wire Size | 6 @ 1 AWG                   |

**Part Detail**

|              |                    |
|--------------|--------------------|
| Revision     | R                  |
| Type         | AC                 |
| Mech. spec.  |                    |
| Base         |                    |
| Status       | PRD/A              |
| Elec. spec.  | A44WG1497          |
| Layout       | 617427-003         |
| Eff. date    | 02-24-2025         |
| CD Diagram   | 416820-036         |
| Poles        | 06                 |
| Leads        | 3#1 (02 per group) |
| Proprietary  | False              |
| Created date | 08-16-2012         |

| <b>Motor Standards</b>          | <b>Other</b>       |
|---------------------------------|--------------------|
| <b>Motor Type</b>               | A44160M            |
| <b>Mounting Arrangement</b>     | F1                 |
| <b>Number of Poles</b>          | 6                  |
| <b>Overall Length</b>           | 53.24 IN           |
| <b>Power Factor</b>             | 87                 |
| <b>Pulley End Bearing Type</b>  | Roller             |
| <b>Pulley Face Code</b>         | Standard           |
| <b>Service Factor</b>           | 1.15               |
| <b>Shaft Diameter</b>           | 3.375 IN           |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding |
| <b>Shaft Rotation</b>           | Reversible         |
| <b>Shaft Slinger Indicator</b>  | Shaft Slinger      |
| <b>Speed</b>                    | 1190 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             | ECP44206TR-4 |               |                 | SPEC NO.     |       | P44G3949 |                       |                     |      |      |      |             |   |
| HP                 | 200          | AMPS          | 225             |              |       | VOLTS    | 460                   | DESIGN              |      | B    |      |             |   |
| FRAME              | 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 | F |
| D.E. BRG.          | 110RU02M30X  |               |                 | TYPE         | P     | ENCL     | TEFC                  | CODE                | G    |      |      |             |   |
| O.D.E. BRG.        | 90BC03J30X   |               |                 | POWER FACTOR |       |          | 87                    | NEMA NOM EFFICIENCY |      |      | 95.8 |             |   |
| 3/4 LOAD EFF.      | 96.1         | MAX CORR KVAR |                 |              | 35.0  |          | GUARANTEED EFFICIENCY |                     |      | 95.0 |      |             |   |
| 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 |       |          |                       |                     |      |      |      |             |   |

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

|                                                                                                                                               |              |                     |                       |                                                                                     |                 |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|-----------------------|-------------------------------------------------------------------------------------|-----------------|-------|
| 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 |              |                     |                       |                                                                                     |                 |       |
| REMARKS: TYPICAL DATA<br>XE MOTOR-NEMA NOM. EFF. 95.8 %<br>GUARANTEED MIN. EFF. 95.0%                                                         |              |                     |                       |                                                                                     |                 |       |
|                                                            |              | DR. BY G. R. WEBB   |                       | A-C MOTOR<br>PERFORMANCE DATA A44WG1497-R001<br>ISSUE DATE 01/06/21<br>Page 6 of 11 |                 |       |
|                                                                                                                                               |              | CK. BY W. L. SMITH  |                       |                                                                                     |                 |       |
|                                                                                                                                               |              | APP. BY W. L. SMITH |                       |                                                                                     |                 |       |
|                                                                                                                                               |              | DATE 10/08/10       |                       |                                                                                     |                 |       |

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**

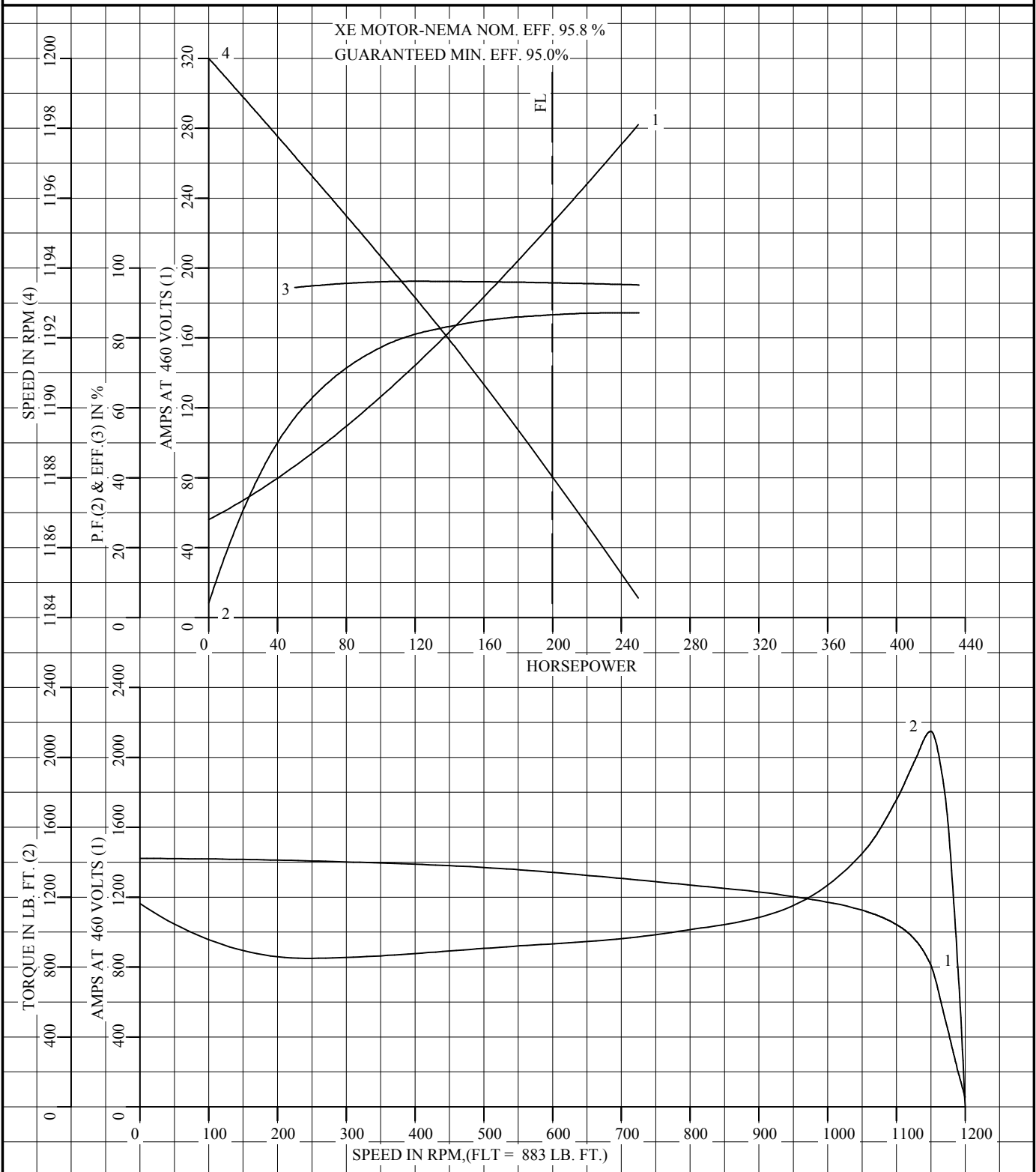
 STATOR RES. @ 25 °C **.0220**

 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

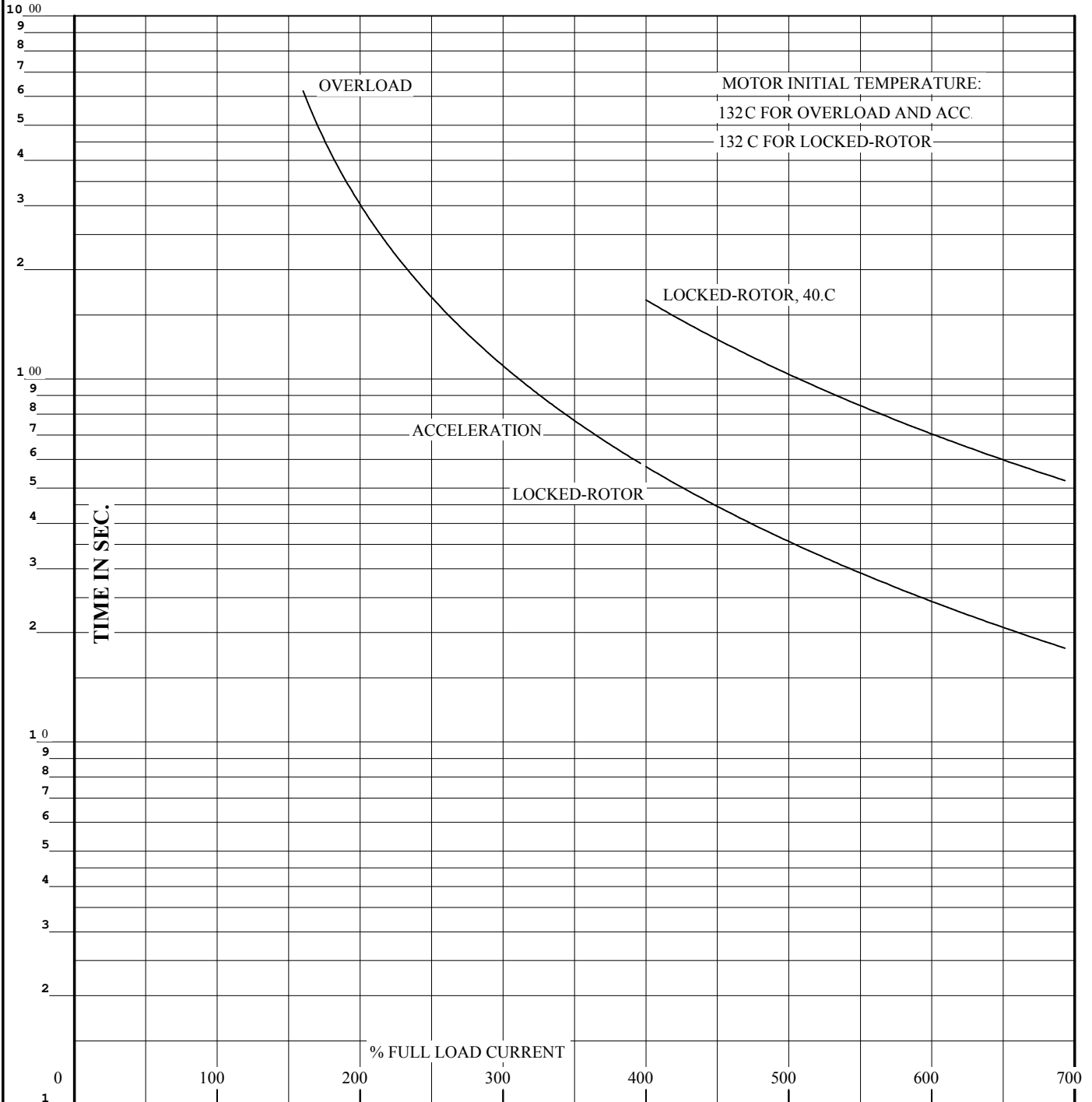
DR. BY G. R. WEBB  
CK. BY W. L. SMITH  
APP. BY W. L. SMITH  
DATE 10/08/10

**A-C MOTOR  
PERFORMANCE  
CURVES**

**A44WG1497-R001**  
ISSUE DATE 01/06/21

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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.



|         |             |
|---------|-------------|
| 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 01/06/21 Page 8 of 11

## DUTY MASTER ALTERNATING CURRENT MOTORS

### SQUIRREL-CAGE INDUCTION

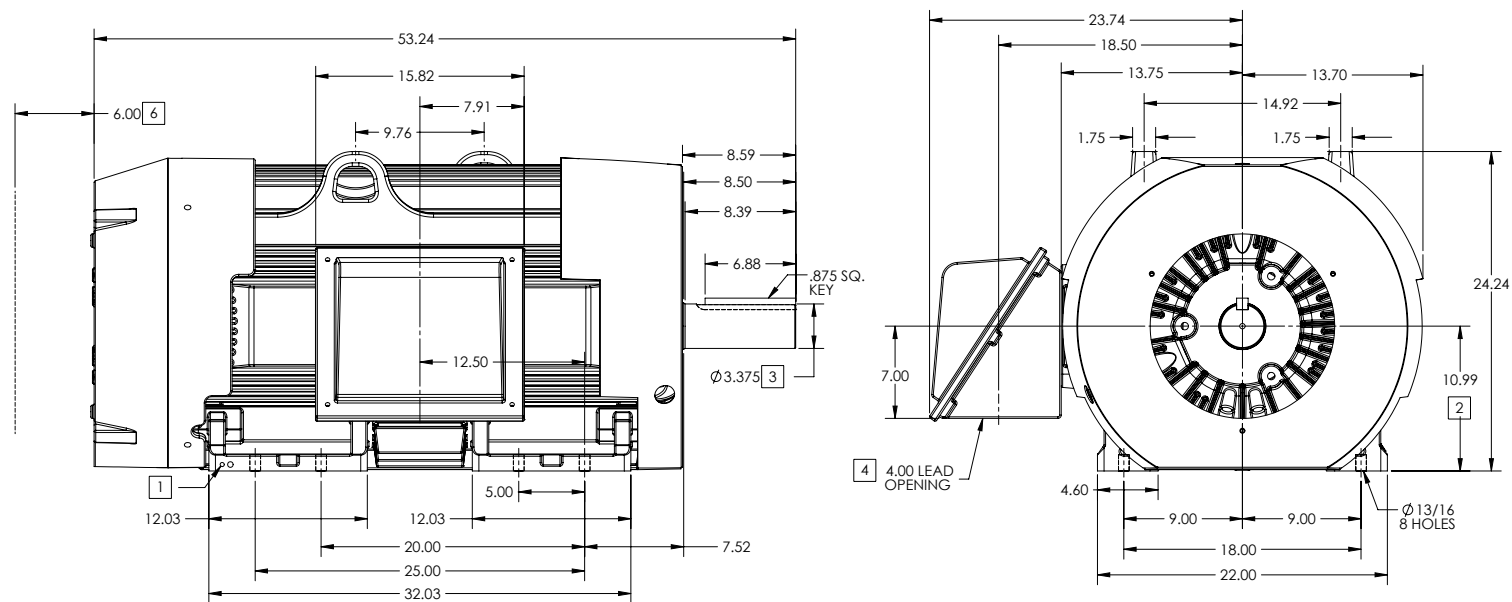
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS (1800 RPM MAX)

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447T FRAME MOUNTING HOLES



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 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO 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): 3080**

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

500P-LCP-119

|                        |           |             |                              |                   |
|------------------------|-----------|-------------|------------------------------|-------------------|
| REV. DESC. NEW DRAWING | REV. B    | VERSION: 02 | REVISED: 11/32/36 10/23/2017 | TDR: 000001048162 |
| MODEL NO. 617427-003   | BY: RAGRA |             |                              |                   |

**BALDOR**

G449T/447T STD - FOOTED - SIDE/CENTER C/B

617427-003

## DUTY MASTER ALTERNATING CURRENT MOTORS

### SQUIRREL-CAGE INDUCTION

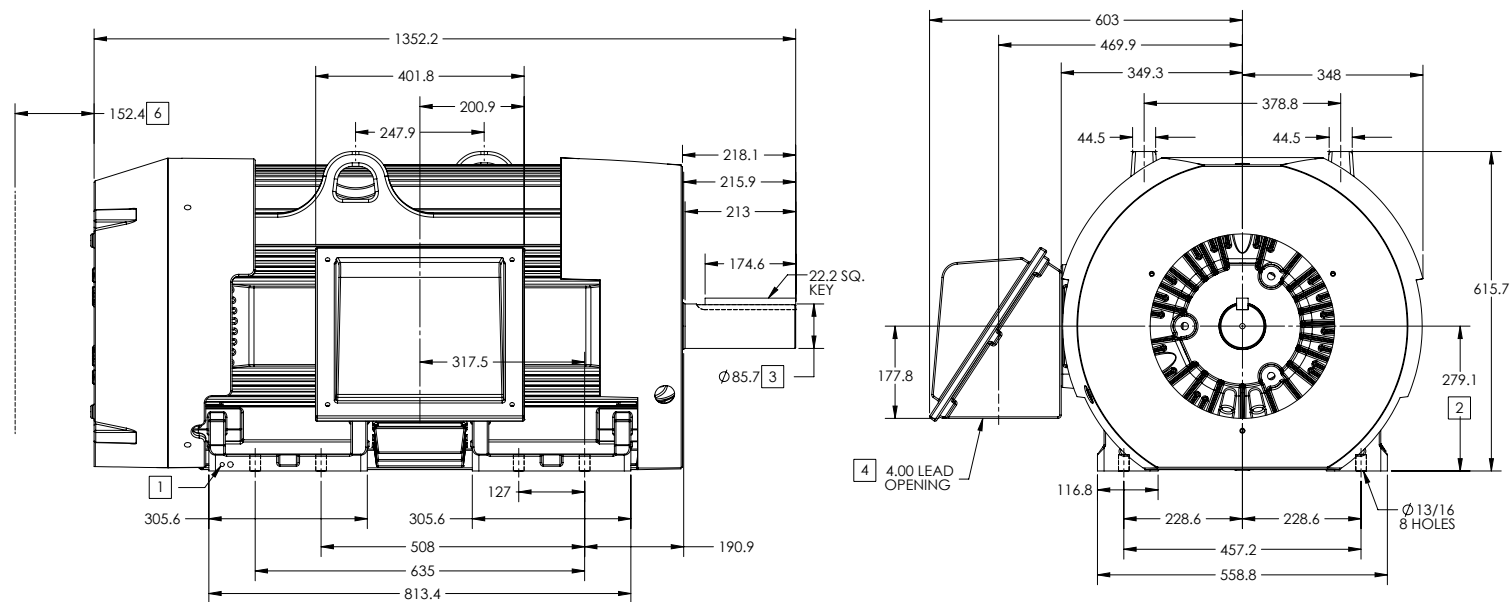
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449T ABOVE NEMA RATINGS (1800 RPM MAX)

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447T FRAME MOUNTING HOLES



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 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO 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): 1400**

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

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

500P-LCP-119

|                        |           |             |                              |                   |
|------------------------|-----------|-------------|------------------------------|-------------------|
| REV. DESC. NEW DRAWING | REV. B    | VERSION: 02 | REVISED: 11/32/36 10/23/2017 | TDR: 000001048162 |
| MODEL NO. 617427-003   | BY: RAGRA |             |                              |                   |

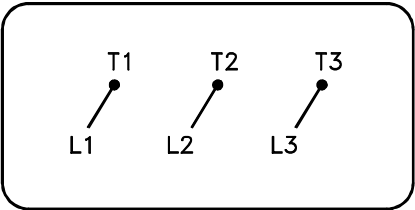
**BALDOR**

G449T/447T STD - FOOTED - SIDE/CENTER C/B

617427-003

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