

# ABB BALDOR RELIANCE III

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## Customer information packet

### EWDM4308T

40HP, 1190RPM, 3PH, 60HZ, 364T, A36062M, TEFC

Class - None

Division - Not Applicable

**Specifications**

|                               |                                          |
|-------------------------------|------------------------------------------|
| Enclosure                     | TEFC                                     |
| Frame                         | 364T                                     |
| Frame Material                | Iron                                     |
| Frequency                     | 60.00 Hz                                 |
| Haz Area Class and Group      | None                                     |
| Haz Area Division             | Not Applicable                           |
| Motor Letter Type             | Three Phase                              |
| Output @ Frequency            | 40.000 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              | CSA EEV<br>CCSA US                       |
| Ambient Temperature           | 40 °C                                    |
| Auxiliary Box                 | NO AUXILLARY BOX                         |
| Base Indicator                | Rigid                                    |
| Bearing Grease Type           | Polyrex EM (-20F +300F)                  |
| Current @ Voltage             | 99.600 A @ 230.0 V<br>49.800 A @ 460.0 V |
| Design Code                   | B                                        |
| Drip Cover                    | No Drip Cover                            |
| Duty Rating                   | CONT                                     |
| Efficiency @ 100% Load        | 94.1 %                                   |
| Enclosure Modification        | Severe Duty Features                     |
| Feedback Device               | NO FEEDBACK                              |
| Heater Indicator              | No Heater                                |
| High Voltage Full Load Amps   | 49.8 a                                   |
| Insulation Class              | F                                        |
| Inverter Code                 | Inverter Ready                           |
| IP Rating                     | IP55                                     |
| KVA Code                      | G                                        |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | A          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | A36WG1194  |
| Layout       | 617428-593 |
| Eff. date    | 10-01-2021 |
| CD Diagram   | 416820-002 |
| Poles        | 06         |
| Leads        | 3#4,6#6    |
| Proprietary  | False      |
| Created date | 08-20-2019 |

| Lifting Lugs                  | Standard Lifting Lugs |
|-------------------------------|-----------------------|
| Motor Lead Quantity/Wire Size | 3 @ 4 AWG             |
| Motor Standards               | NEMA                  |
| Motor Type                    | A36062M               |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 6                     |
| Overall Length                | 33.48 IN              |
| Power Factor                  | 80                    |
| Product Family                | Washdown Features     |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 2.374 IN              |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | Shaft Slinger         |
| Speed                         | 1190 rpm              |
| Speed Code                    | Single Speed          |
| Starting Method               | Direct on line        |
| Thermal Device - Bearing      | None                  |
| Thermal Device - Winding      | None                  |

**Nameplate**

|                  |  |
|------------------|--|
| NP2496L          |  |
| MOBIL POLYREX EM |  |

**NP2428L**

|                   |                                |       |           |              |           |                         |                     |    |                       |      |      |
|-------------------|--------------------------------|-------|-----------|--------------|-----------|-------------------------|---------------------|----|-----------------------|------|------|
| SPEC NO.          | A36-7820-1194                  |       |           | CAT.NO.      | EWDM4308T |                         |                     |    | FRAME                 | 364T |      |
| HP                | 40                             | VOLTS | 230/460   |              | PHASE     | 3                       | DESIGN              | B  | TYPE                  | P    |      |
| RPM               | 1190                           | AMPS  | 99.6/49.8 |              | HZ        | 60                      | AMB                 | 40 | SF                    | 1.15 |      |
| DRIVE END BEARING | 65BC03JGG30A                   |       |           | DUTY         | CONT      | INSUL.CLASS             |                     | F  |                       |      |      |
| OPP D.E. BEARING  | 65BC03JGG30A                   |       |           | ENCL         | TEFC      | CODE                    | G                   |    |                       |      |      |
| SER.NO.           |                                |       |           | POWER FACTOR |           | 80                      | NEMA-NOM-EFFICIENCY |    |                       |      | 94.1 |
|                   |                                |       |           |              |           | MAX CORR KVAR           |                     | 12 | GUARANTEED EFFICIENCY |      | 93   |
|                   | IP55                           |       |           |              |           | NEMA NOM/CSA QUOTED EFF |                     |    |                       |      |      |
|                   | 10:1CT AND 10:1VT ON VPWM INVE |       |           |              |           | RTER, 1.00SF            |                     |    | MOTOR WEIGHT          |      |      |

|                                                                                                                                                                                                                                            |             |                   |                       |                                                                                                       |                 |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|-----------------------|-------------------------------------------------------------------------------------------------------|-----------------|---------|
| REL.<br>S.O.                                                                                                                                                                                                                               | FRAME       | HP                | TYPE                  | PHASE/<br>HERTZ                                                                                       | RPM             | VOLTS   |
|                                                                                                                                                                                                                                            | 364TC       | 40                | P                     | 3/60                                                                                                  | 1190            | 230/460 |
| AMPS                                                                                                                                                                                                                                       | DUTY        | AMB °C/<br>INSUL. | S.F.                  | NEMA<br>DESIGN                                                                                        | CODE<br>LETTER  | ENCL.   |
| 99.6/49.8                                                                                                                                                                                                                                  | 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)                                                            |                 |         |
| 491378                                                                                                                                                                                                                                     | 418141088JE | ---               | ---                   | .0373/.149                                                                                            |                 |         |
| PERFORMANCE                                                                                                                                                                                                                                |             |                   |                       |                                                                                                       |                 |         |
| LOAD                                                                                                                                                                                                                                       | HP          | AMPERES           | RPM                   | %<br>POWER FACTOR                                                                                     | %<br>EFFICIENCY |         |
| NO LOAD                                                                                                                                                                                                                                    | 0           | 18.5              | 1200                  | 5.70                                                                                                  | 0               |         |
| 1/4                                                                                                                                                                                                                                        | 10.0        | 22.4              | 1197                  | 47.0                                                                                                  | 89.2            |         |
| 2/4                                                                                                                                                                                                                                        | 20.0        | 29.6              | 1194                  | 67.8                                                                                                  | 93.2            |         |
| 3/4                                                                                                                                                                                                                                        | 30.0        | 39.1              | 1191                  | 76.3                                                                                                  | 94.1            |         |
| 4/4                                                                                                                                                                                                                                        | 40.0        | 49.8              | 1188                  | 79.9                                                                                                  | 94.1            |         |
| 5/4                                                                                                                                                                                                                                        | 50.0        | 61.2              | 1184                  | 81.6                                                                                                  | 93.7            |         |
| SPEED TORQUE                                                                                                                                                                                                                               |             |                   |                       |                                                                                                       |                 |         |
|                                                                                                                                                                                                                                            |             | RPM               | TORQUE<br>% FULL LOAD | TORQUE<br>LB.-FT.                                                                                     | AMPERES         |         |
| LOCKED ROTOR                                                                                                                                                                                                                               |             | 0                 | 165                   | 291                                                                                                   | 300             |         |
| PULL UP                                                                                                                                                                                                                                    |             | 480               | 142                   | 251                                                                                                   | 274             |         |
| BREAKDOWN                                                                                                                                                                                                                                  |             | 1134              | 251                   | 444                                                                                                   | 172             |         |
| FULL LOAD                                                                                                                                                                                                                                  |             | 1188              | 100                   | 177                                                                                                   | 49.8            |         |
| 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. 94.1 %<br>GUARANTEED MIN. EFF. 93.0% |             |                   |                       |                                                                                                       |                 |         |
|                                                                                                                                                         |             | DR. BY            | T.G. KELATI           | <b>A-C MOTOR<br/>PERFORMANCE DATA</b><br><b>A36WG1194-R013</b><br>ISSUE DATE 01/13/21<br>Page 6 of 10 |                 |         |
|                                                                                                                                                                                                                                            |             | CK. BY            | D. H. MAY             |                                                                                                       |                 |         |
|                                                                                                                                                                                                                                            |             | APP. BY           | E.J. CHRISTIAN        |                                                                                                       |                 |         |
|                                                                                                                                                                                                                                            |             | DATE              | 10/12/06              |                                                                                                       |                 |         |

REL S.O.

RPM 1190

S.F. 1.15

ROTOR 418141088JE

FRAME 364TC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

AMPS 99.6/49.8

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

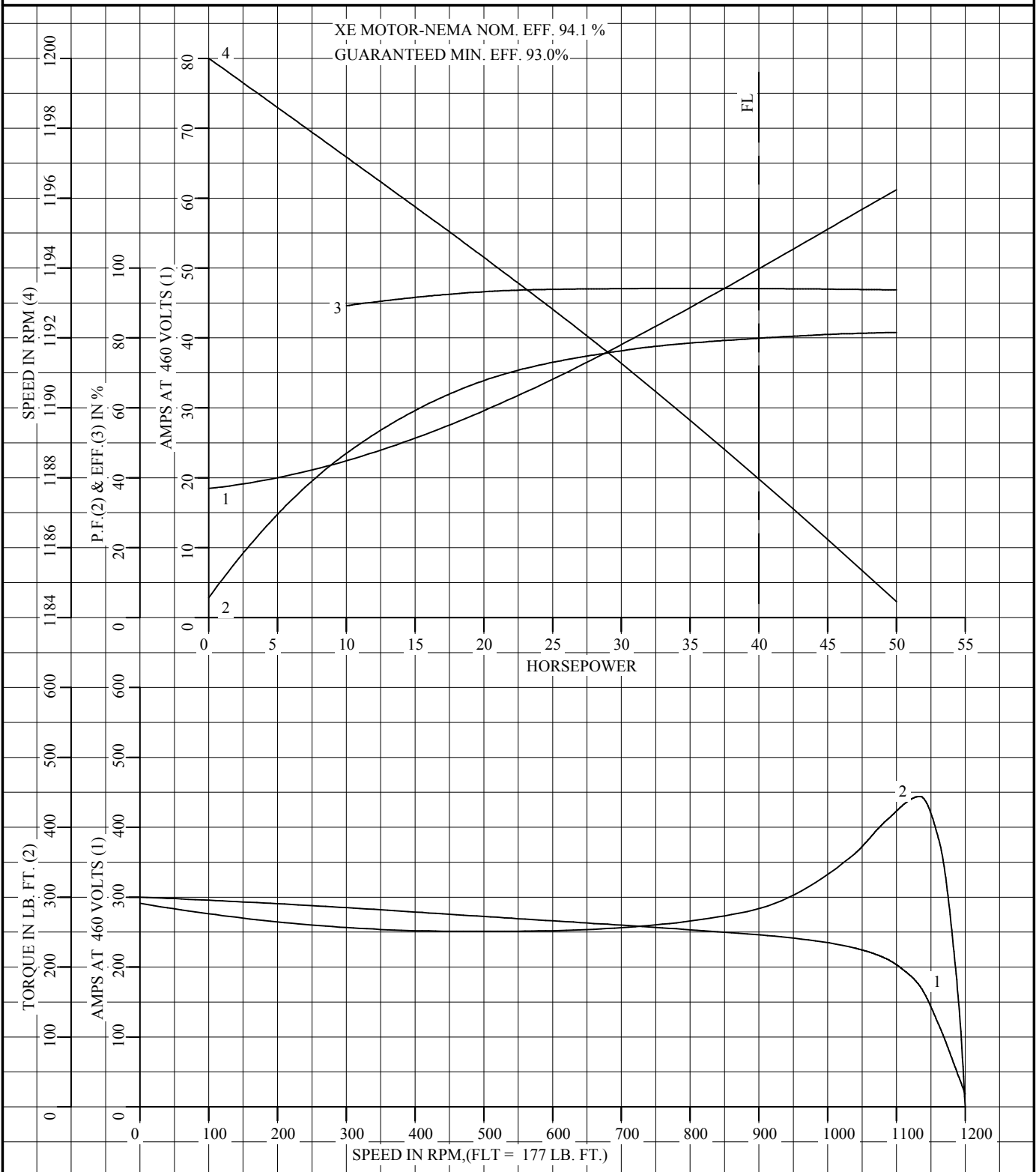
STATOR RES. @ 25 °C .0373/.149

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 491378

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 T.G. KELATI  
CK. BY D.H. MAY  
APP. BY E.J. CHRISTIAN  
DATE 10/12/06

**A-C MOTOR  
PERFORMANCE  
CURVES**

A36WG1194-R013

ISSUE DATE 01/13/21

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REL. S.O.

 RPM **1190**

 S.F. **1.15**

 ROTOR **418141088JE**

 FRAME **364TC**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **40**

 AMPS **99.6/49.8**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

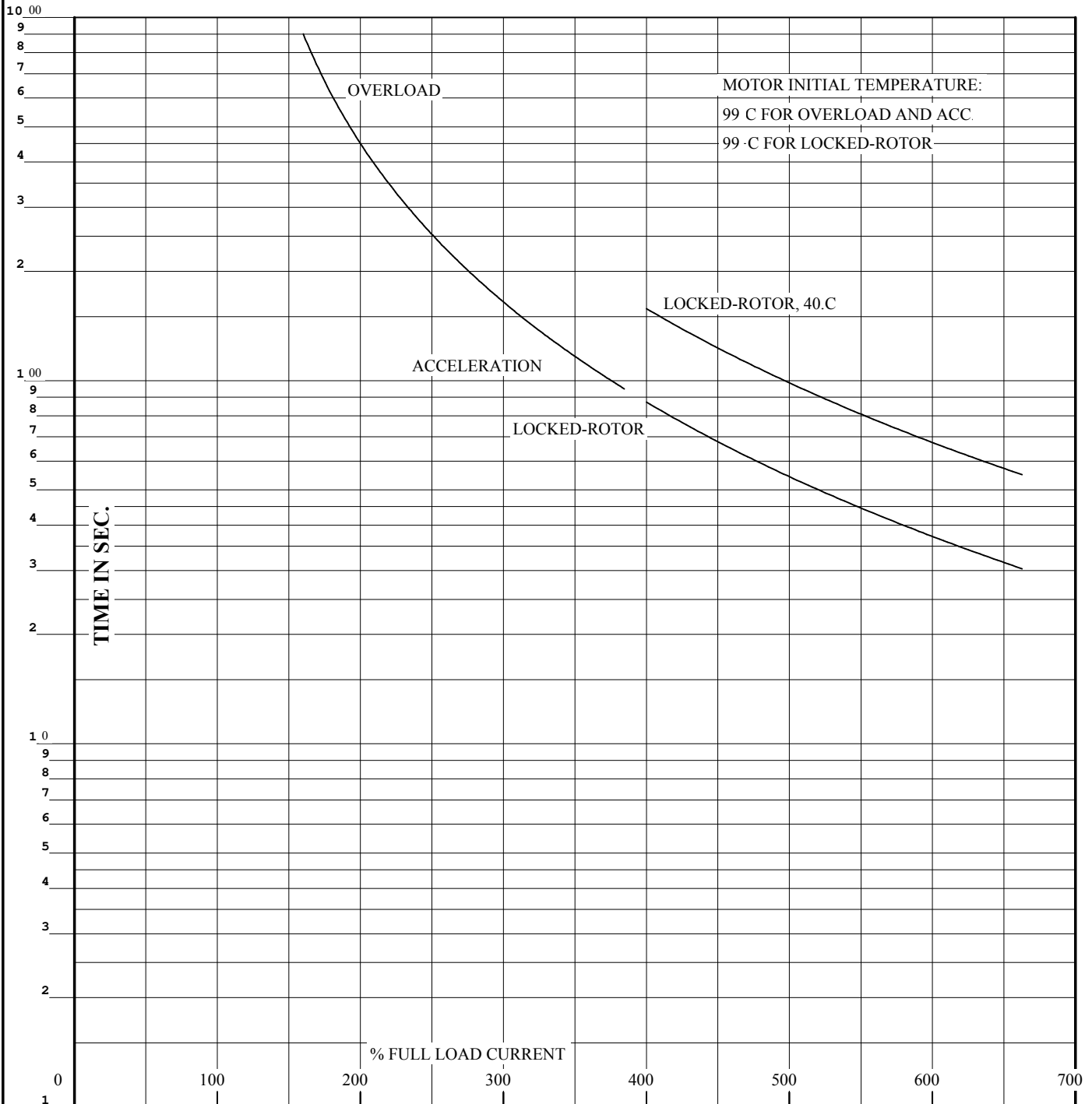
 STATOR RES. @ 25 °C **.0373/.149**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **491378**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 94.1 %

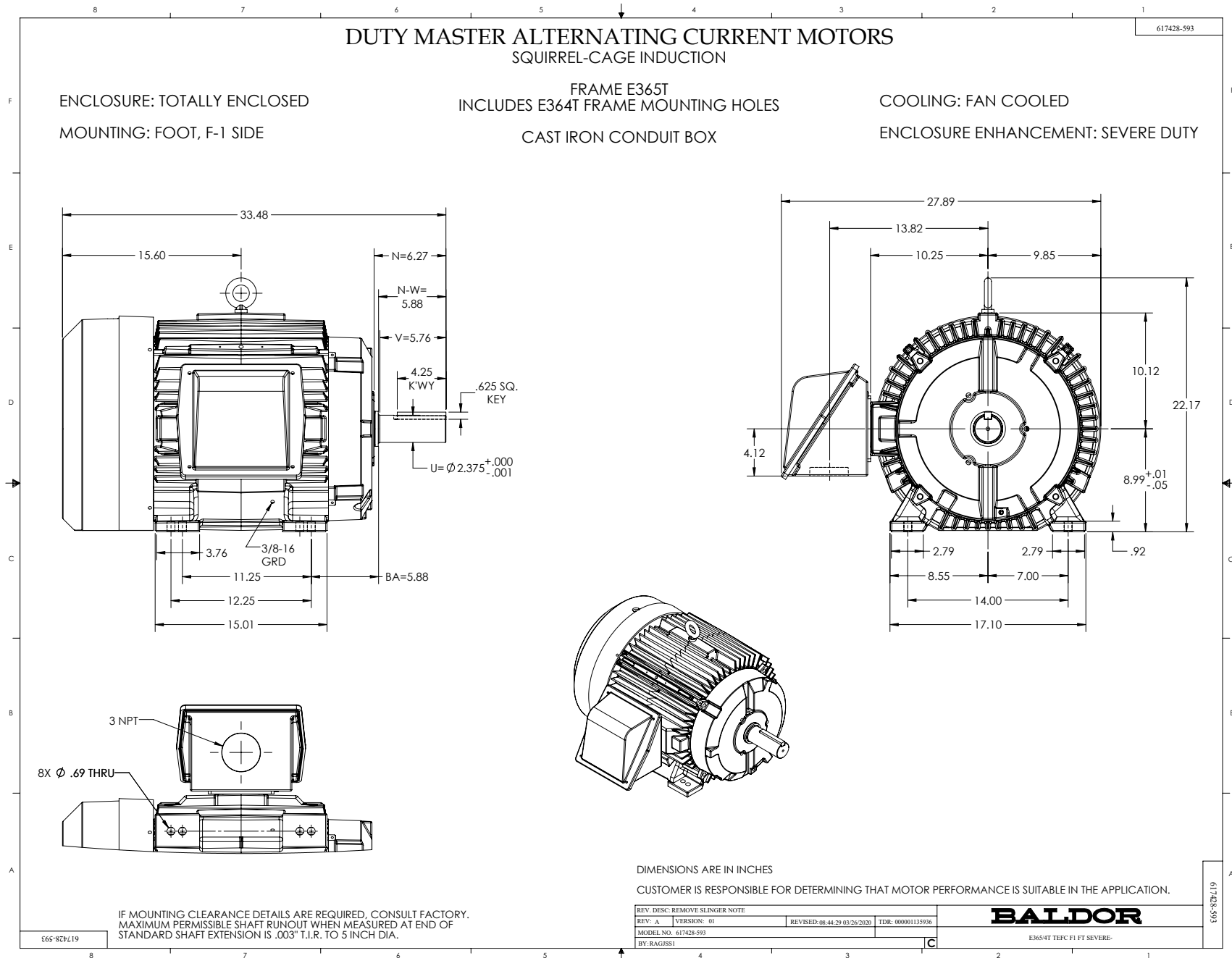
GUARANTEED MIN. EFF. 93.0%

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

**BALDOR**  
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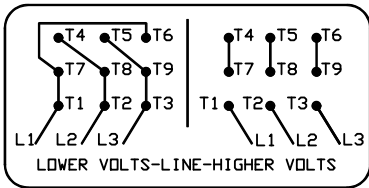
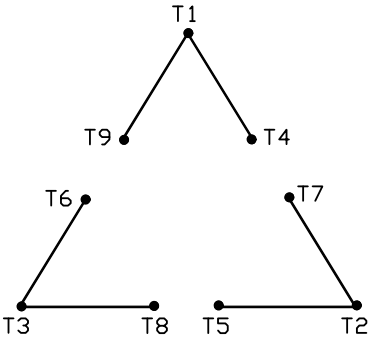
 DR. BY **T.G. KELATI**  
CK. BY **D. H. MAY**  
APP. BY **E.J. CHRISTIAN**  
DATE **10/12/06**
**A-C MOTOR  
PERFORMANCE  
CURVES**
**A36WG1194-R013**

 ISSUE DATE **01/13/21** Page 8 of 10



416820-002

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



( N. P. 1575-B )

416820-002

|                                 |                              |                   |
|---------------------------------|------------------------------|-------------------|
| REV. DESC: ADJUST TEXT DARKNESS |                              |                   |
| REV. LTR: B                     | VERSION: 02                  | TDR: 000001285318 |
| FILE: \RAG\00022\453            | REVISED: 09:36:26 09/24/2026 | BY: USJOSUL       |
| MTL: -                          |                              |                   |



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED  
SH1 of 1