

# ABB BALDOR RELIANCE III

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## Customer information packet

### CDRX36464T

40HP, 1190RPM, 3PH, 60HZ, 364TC, TEFC, F1

Class - CLI GP C,D

Division - Division I

**Specifications**

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| <b>Enclosure</b>                     | TEFC                                     |
| <b>Frame</b>                         | 364TC                                    |
| <b>Frame Material</b>                | Iron                                     |
| <b>Frequency</b>                     | 60.00 Hz                                 |
| <b>Haz Area Class and Group</b>      | CLI GP C,D                               |
| <b>Haz Area Division</b>             | Division I                               |
| <b>Motor Letter Type</b>             | Three Phase                              |
| <b>Output @ Frequency</b>            | 40.000 HP @ 60 HZ                        |
| <b>Phase</b>                         | 3                                        |
| <b>Synchronous Speed @ Frequency</b> | 1200 RPM @ 60 HZ                         |
| <b>Voltage @ Frequency</b>           | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| <b>Agency Approvals</b>              | CCSAUSEEV<br>CSA<br>UL                   |
| <b>Ambient Temperature</b>           | 40 °C                                    |
| <b>Auxiliary Box</b>                 | NO AUXILLARY BOX                         |
| <b>Base Indicator</b>                | Rigid                                    |
| <b>Bearing Grease Type</b>           | Polyrex EM (-20F +300F)                  |
| <b>Constant Torque Speed Range</b>   | 6-60                                     |
| <b>Current @ Voltage</b>             | 49.800 A @ 460.0 V<br>99.600 A @ 230.0 V |
| <b>Design Code</b>                   | B                                        |
| <b>Drip Cover</b>                    | No Drip Cover                            |
| <b>Duty Rating</b>                   | CONT                                     |
| <b>Efficiency @ 100% Load</b>        | 94.1 %                                   |
| <b>Feedback Device</b>               | NO FEEDBACK                              |
| <b>Haz Area Temp Code</b>            | T3C                                      |
| <b>Heater Indicator</b>              | No Heater                                |
| <b>High Voltage Full Load Amps</b>   | 49.8 a                                   |
| <b>Insulation Class</b>              | F                                        |
| <b>Inverter Code</b>                 | Inverter Ready                           |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | -          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | A36WG1194  |
| <b>Layout</b>       | 611742-780 |
| <b>Eff. date</b>    | 06-18-2019 |
| <b>CD Diagram</b>   | 416820-002 |
| <b>Poles</b>        | 06         |
| <b>Leads</b>        | 3#4,6#6    |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 05-30-2019 |

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>IP Rating</b>                     | NONE                       |
| <b>KVA Code</b>                      | G                          |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs      |
| <b>Max Speed</b>                     | 3000 rpm                   |
| <b>Motor Lead Quantity/Wire Size</b> | 3 @ 4 AWG                  |
| <b>Motor Standards</b>               | NEMA                       |
| <b>Motor Type</b>                    | A36062M                    |
| <b>Mounting Arrangement</b>          | F1                         |
| <b>Number of Poles</b>               | 6                          |
| <b>Overall Length</b>                | 33.45 IN                   |
| <b>Power Factor</b>                  | 80                         |
| <b>Product Family</b>                | General Industrial         |
| <b>Pulley End Bearing Type</b>       | Ball                       |
| <b>Pulley Face Code</b>              | C-Face                     |
| <b>Service Factor</b>                | 1.00                       |
| <b>Shaft Diameter</b>                | 2.374 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>      | Normally Closed Thermostat |

**Nameplate**

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

000692000FX



|                     |       |     |
|---------------------|-------|-----|
| 000613006PC         |       |     |
| CLASS I GROUP       | C D X | NO. |
| CLASS II GROUP      | X X X |     |
| OPERATING TEMP CODE | T3C   |     |

**NP3140L**

|                   |                             |       |           |         |              |             |      |              |      |      |      |       |       |
|-------------------|-----------------------------|-------|-----------|---------|--------------|-------------|------|--------------|------|------|------|-------|-------|
| SPEC NO.          | A36-7818-1194               |       |           |         | CAT.NO.      | CDRX36464T  |      |              |      |      |      | FRAME | 364TC |
| HP                | 40                          | VOLTS | 230/460   |         |              | PHASE       | 3    | DESIGN       | B    | TYPE | P    |       |       |
| RPM               | 1190                        | AMPS  | 99.6/49.8 |         |              | HZ          | 60   | AMB          | 40   | SF   | 1.00 |       |       |
| DRIVE END BEARING | 65BC03J30X                  |       |           | DUTY    | CONT         | INSUL.CLASS |      |              | F    |      |      |       |       |
| OPP D.E. BEARING  | 65BC03J30X                  |       |           | ENCL    | TEFC         | CODE        | G    |              |      |      |      |       |       |
| SF                | 1.15                        | WK2   | 20.223    | MAG CUR | 37/18.5      |             |      | RPM MAX      | 3000 |      |      |       |       |
| CT HZ             | 6-60                        | VT HZ | 0-60      | CHP HZ  | 60-90        |             |      | NEMA-NOM-EFF |      |      | 94.1 |       |       |
|                   | SUIT FOR 55C AMB AT 1.00 SF |       |           |         |              |             | IP55 |              |      |      |      |       |       |
| SER.NO.           |                             |       |           |         | MOTOR WEIGHT |             |      | 908          |      |      |      |       |       |

|                                                                                                                                    |                             |                                                                                                                             |                       |                                            |                |                                            |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------|----------------|--------------------------------------------|
| ABB BALDOR<br>RELIANCE III<br>S/O                                                                                                  | CUSTOMER INFORMATION PACKET |                                                                                                                             |                       |                                            |                |                                            |
|                                                                                                                                    | FRAME                       | HP                                                                                                                          | TYPE                  | PHASE/<br>HERTZ                            | RPM            | VOLTS                                      |
|                                                                                                                                    | 364T                        | 40                                                                                                                          | P                     | 3/60                                       | 1190           | 230/460                                    |
| AMPS                                                                                                                               | DUTY                        | AMB °C/<br>INSUL                                                                                                            | S.F.                  | NEMA<br>DESIGN                             | CODE<br>LETTER | ENCLOSURE                                  |
| 99.6/49.8                                                                                                                          | CONT                        | 40/F                                                                                                                        | 1.00                  | 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                   | % POWER FACTOR                             | % 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 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 CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE. |                             |                                                                                                                             |                       |                                            |                |                                            |
| TYPICAL DATA<br>XE MOTOR-NEMA NOM. EFF. 94.1 %<br>GUARANTEED MIN. EFF. 93.0%                                                       |                             |                                                                                                                             |                       |                                            |                |                                            |
| ABB                                                                                                                                |                             | DRAWN BY: <u>T.G. KELATI</u><br>CHECKED BY: <u>D. H. MAY</u><br>APPROVED BY: <u>E.J. CHRISTIAN</u><br>DATE: <u>10/12/06</u> |                       | AC MOTOR<br>PERFORMANCE<br>DATA            |                | A36WG1194-R015<br><br>DATE ISSUED 01/24/25 |

FRAME 364T

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

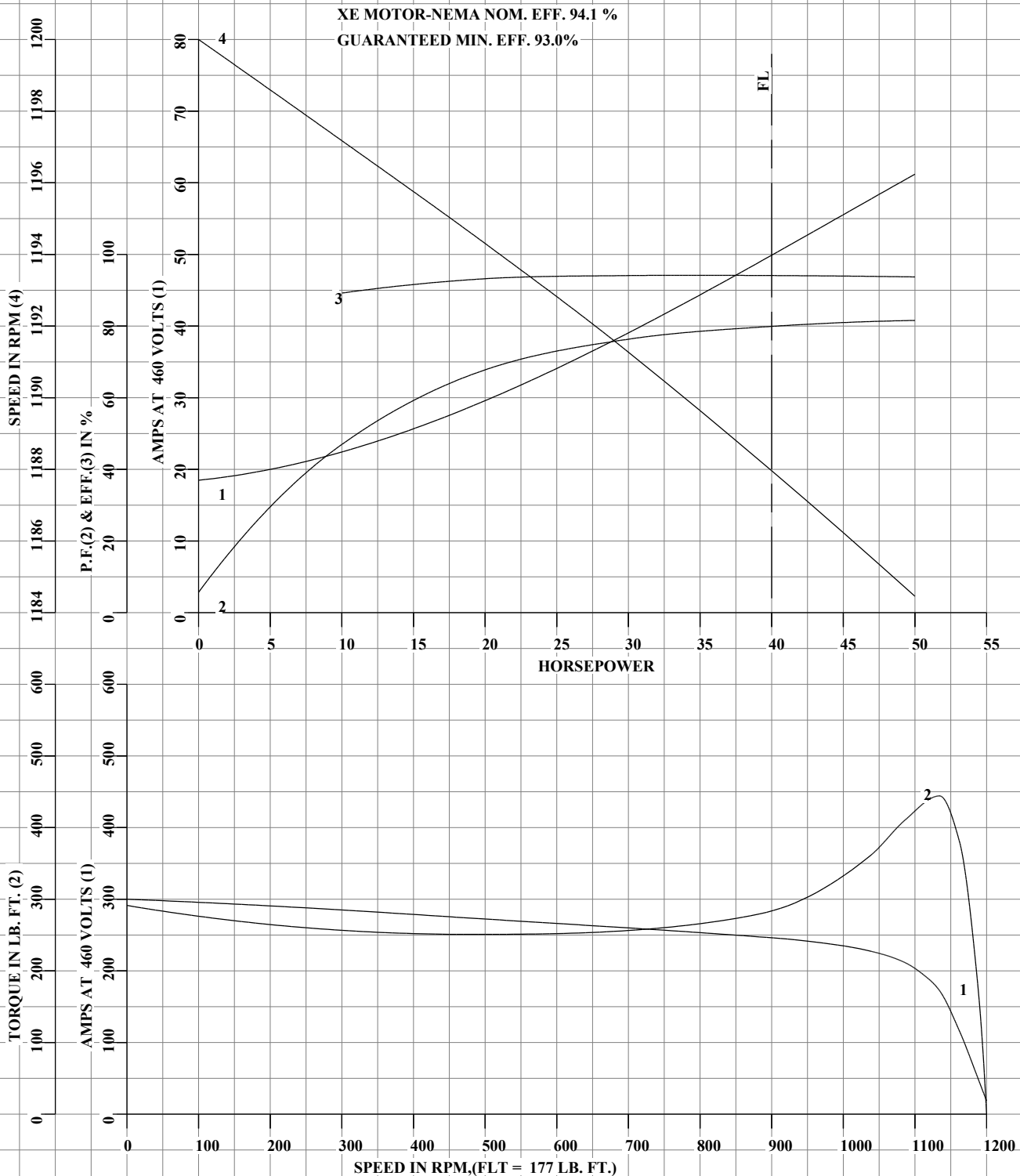
STATOR RES. @ 25°C .0373/.149

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S 491378

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: T.G. KELATI  
CHECKED BY: D. H. MAY  
APPROVED BY: E.J. CHRISTIAN  
DATE: 10/12/06

AC MOTOR  
PERFORMANCE  
DATA

**A36WG1194-R015**

ISSUE DATE 01/24/25

FRAME 364T

RPM 1190

S.F. 1.00

ROTOR 418141088JE

HP 40

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

TYPE P

AMPS 99.6/49.8

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

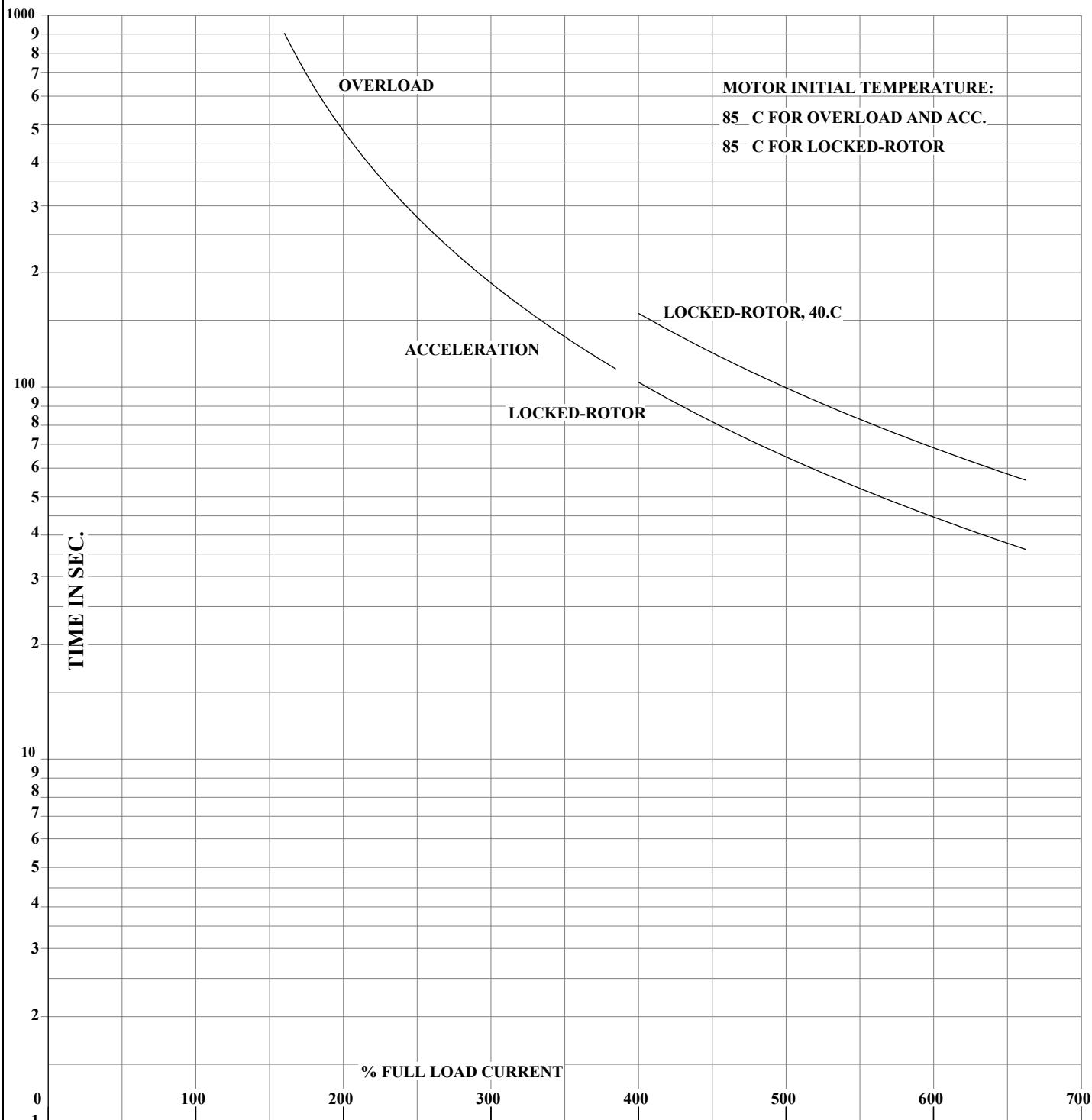
ENCLOSURE TEFC

STATOR RES. @ 25°C .0373/.149

AMB °C / INSUL 40/F

E/S 491378

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE  
XE MOTOR-NEMA NOM. EFF. 94.1 %

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

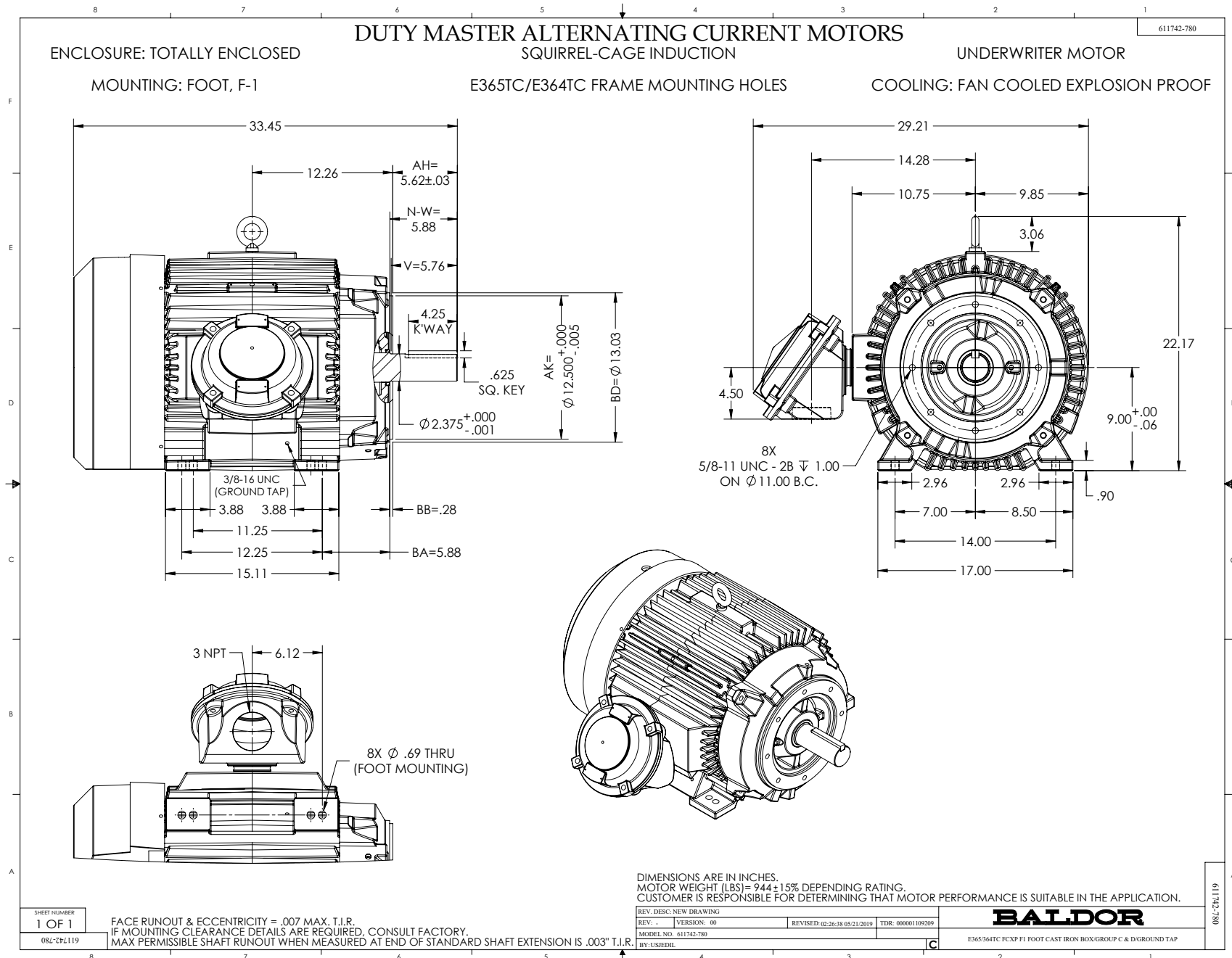


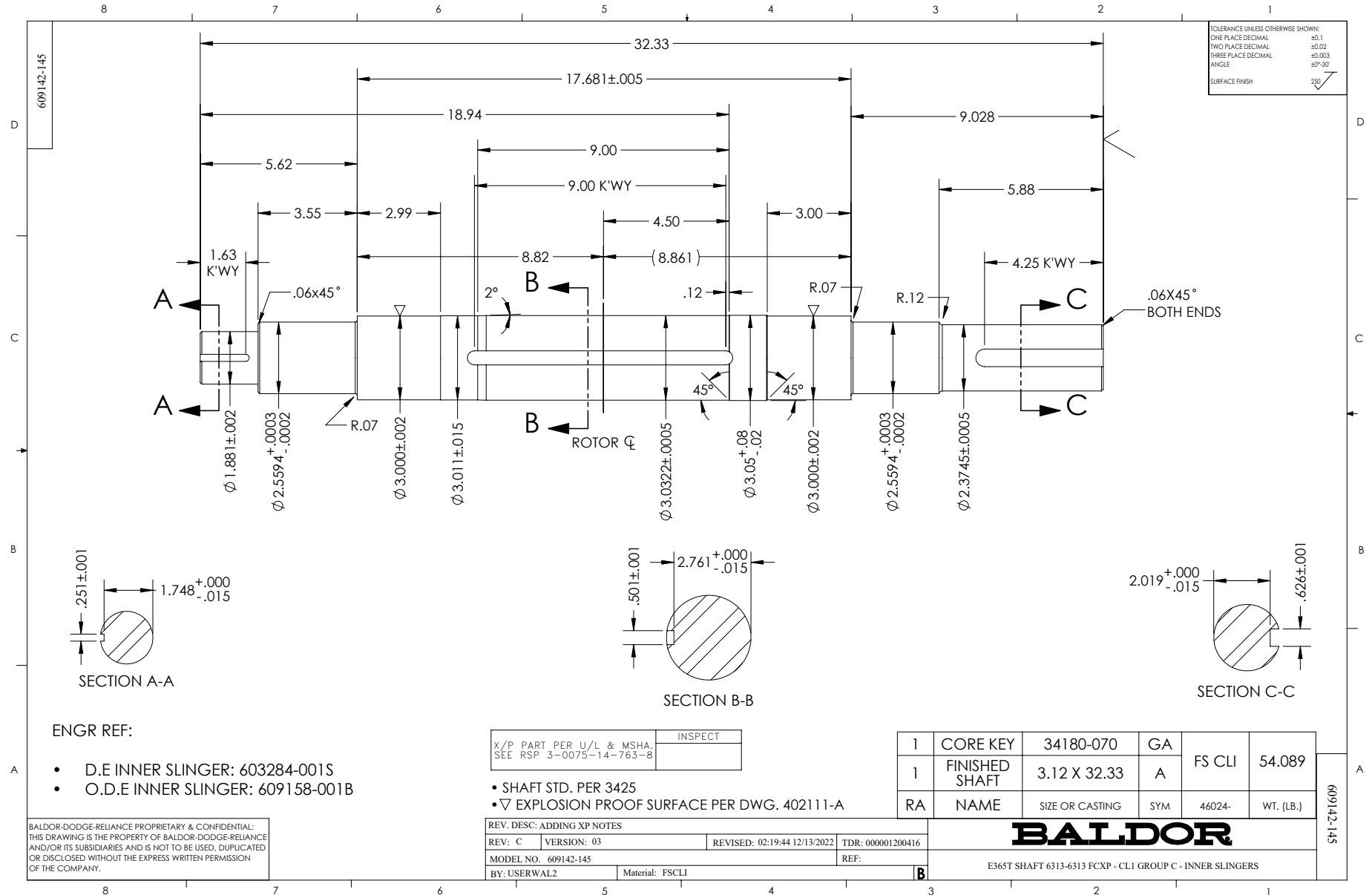
DRAWN BY: T.G. KELATI  
CHECKED BY: D. H. MAY  
APPROVED BY: E.J. CHRISTIAN  
DATE: 10/12/06

AC MOTOR  
PERFORMANCE  
DATA

**A36WG1194-R015**

ISSUE DATE 01/24/25





CONNECTION DIAGRAM  
ACCESSORIES

|                           |                       |                   |
|---------------------------|-----------------------|-------------------|
| MOTOR WINDING THERMOSTATS |                       |                   |
| CONTACTS _____ @ _____ °C |                       |                   |
| FIGURE NUMBER _____       |                       |                   |
| CONTACT RATING            |                       |                   |
| VOLTS                     | CONTINUOUS<br>AMPERES | INRUSH<br>AMPERES |
| 110-120                   | 3.0                   | 30                |
| 220-240                   | 1.5                   | 15                |
| 440-480                   | 0.75                  | 7.5               |
| 550-600                   | 0.60                  | 6.0               |

| THERMOSTATS     |               |
|-----------------|---------------|
| NORMALLY CLOSED | NORMALLY OPEN |
| FIGURE 1<br>    | FIGURE 4<br>  |
| FIGURE 2<br>    | FIGURE 5<br>  |
| FIGURE 3<br>    | FIGURE 6<br>  |
| FIGURE 7<br>    | FIGURE 8<br>  |

CUSTOMER \_\_\_\_\_ CUSTOMER ORDER NO. \_\_\_\_\_ S.O. NO. \_\_\_\_\_

418174-006

418174-006

|                          |                              |                   |
|--------------------------|------------------------------|-------------------|
| REV. DESC: LOADED TO BUS |                              |                   |
| REV. LTR: A              | VERSION: 01                  | TDR: 000000570390 |
| FILE: \RAG\00013\849     | REVISED: 10:16:21 12/07/2010 | BY: RAGDRF        |
| MTL: -                   |                              |                   |

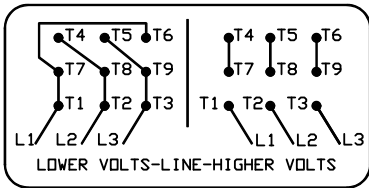
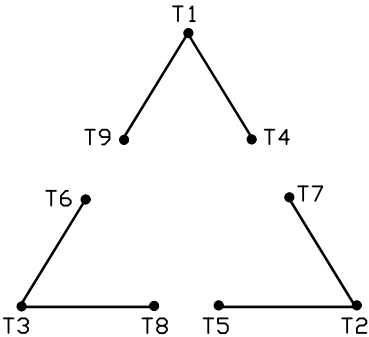
**BALDOR**

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

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