

# ABB BALDOR RELIANCE III

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## Customer information packet

### CSPM4407T-4

200HP, 1790RPM, 3PH, 60HZ, 449TC, A44124M, TEF

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                               |                                       |
|-------------------------------|---------------------------------------|
| Enclosure                     | TEFC                                  |
| Frame                         | 449TC                                 |
| Frame Material                | Cast 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 | 1800 RPM @ 60 HZ                      |
| Voltage @ Frequency           | 460.0 V @ 60 HZ                       |
| Agency Approvals              | CURUSEEV<br>CCSAUSEEV<br>NEMA_PREMIUM |
| Ambient Temperature           | 40 °C                                 |
| Auxiliary Box                 | NO AUXILLARY BOX                      |
| Base Indicator                | Rigid                                 |
| Bearing Grease Type           | Polyrex EM (-20F +300F)               |
| Current @ Voltage             | 227.000 A @ 460.0 V                   |
| Design Code                   | A                                     |
| Duty Rating                   | CONT                                  |
| Efficiency @ 100% Load        | 96.5 %                                |
| Feedback Device               | NO FEEDBACK                           |
| Heater Indicator              | No Heater                             |
| High Voltage Full Load Amps   | 227.0 a                               |
| Insulation Class              | F                                     |
| Inverter Code                 | Inverter Duty                         |
| KVA Code                      | J                                     |
| Lifting Lugs                  | Standard Lifting Lugs                 |
| Max Speed                     | 2700 rpm                              |
| Motor Lead Quantity/Wire Size | 6 @ 2/0 AWG                           |
| Motor Standards               | NEMA                                  |

**Part Detail**

|              |                      |
|--------------|----------------------|
| Revision     | A                    |
| Type         | AC                   |
| Mech. spec.  |                      |
| Base         |                      |
| Status       | PRD/A                |
| Elec. spec.  | A44WG6734            |
| Layout       | 617435-296           |
| Eff. date    | 05-28-2025           |
| CD Diagram   | 416820-036           |
| Poles        | 04                   |
| Leads        | 3#2/0 (02 per group) |
| Proprietary  | False                |
| Created date | 12-10-2024           |

|                                 |                    |
|---------------------------------|--------------------|
| <b>Motor Type</b>               | A44124M            |
| <b>Mounting Arrangement</b>     | F1                 |
| <b>Number of Poles</b>          | 4                  |
| <b>Overall Length</b>           | 53.47 IN           |
| <b>Power Factor</b>             | 85                 |
| <b>Product Family</b>           | General Industrial |
| <b>Pulley End Bearing Type</b>  | Ball               |
| <b>Pulley Face Code</b>         | C-Face             |
| <b>Service Factor</b>           | 1.15               |
| <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>                    | 1790 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**
**NP4562L**

|                         |                  |                                |               |                                |              |                               |                |              |                            |
|-------------------------|------------------|--------------------------------|---------------|--------------------------------|--------------|-------------------------------|----------------|--------------|----------------------------|
| <b>CAT NO</b>           | CSPM4407T-4      | <b>SPEC NO.</b>                | A44-5001-6734 | <b>I.P.</b>                    | 55           |                               |                |              |                            |
| <b>HP</b>               | 200              | <b>AMPS</b>                    | 227           | <b>VOLTS</b>                   | 460          | <b>DESIGN</b>                 | A              |              |                            |
| <b>FRAME SIZE</b>       | 449TC            | <b>RPM</b>                     | 1790          | <b>MAX RPM</b>                 | 2700         | <b>HZ</b>                     | 60             | <b>AMB</b>   | 40 C                       |
| <b>D.E. BRG.</b>        | 90BC03J30X       | <b>PH.3</b>                    | 3             | <b>DUTY</b>                    | CONT         | <b>INSUL.CLASS</b>            | F              |              |                            |
| <b>O.D.E. BRG.</b>      | 90BC03J30X       | <b>TYPE P</b>                  |               | <b>ENCL</b>                    | TEFC         | <b>SF</b>                     | 1.15           | <b>CODE</b>  | J                          |
| <b>POWER FACTOR</b>     | 85               | <b>MAX CORR KVAR</b>           | 43            | <b>NEMA NOM EFFICIENCY</b>     | 96.5         | <b>MOTOR WEIGHT</b>           |                | <b>LBS</b>   |                            |
| <b>CL.I,DIV 2,GRP:</b>  | A,B,C,D          | <b>T.CODE</b>                  | T3            | <b>CL.1,ZONE 2,GRP:</b>        |              | <b>IIA,IIB,IIC</b>            | T= 200         | <b>C</b>     | <b>INVERTER T.CODE</b> T3  |
| <b>CL.II,DIV 2,GRP:</b> | F,G              | <b>T.CODE</b>                  | T3C           | <b>CL II ZONE 22 GRPS IIIB</b> |              | <b>T=</b>                     | 160            | <b>C</b>     | <b>INVERTER T.CODE</b> T3C |
| <b>ID LOGO</b>          | <b>INV TYPE:</b> | <b>VPWM</b>                    | <b>CT</b> 30  | <b>TO</b> 60                   | <b>VT</b> 3  | <b>TO</b> 60                  | <b>CHP</b> 60  | <b>TO</b> 90 |                            |
| <b>ID LOGO</b>          | 1.0 SF VPWM      | <b>WK2</b>                     | 81.8          | <b>LBFT2</b>                   | <b>SL HZ</b> | 0.37                          | <b>MAG CUR</b> | 74.5         |                            |
| <b>SER.NO.</b>          |                  | <b>MEETS INTENT OF IEEE-45</b> |               |                                |              | <b>FOR WEATHER PROTECTION</b> |                |              |                            |

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

|                                                                                                                                    |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------|--|--|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|--|-----------------------|--|--|--------------------------------------------|--|--------------------------------------------------------------|--------------------------------------------|--|--|-----------|--|--|
| ABB BALDOR<br>RELIANCE III                                                                                                         |  |  |               |  |  |                                                                                                                            | CUSTOMER INFORMATION PACKET |  |                       |  |  |                                            |  | CSPM4407T-4 - 200HP, 1790RPM, 3PH, 60HZ, 449TC, A44124M, TEF |                                            |  |  |           |  |  |
| S/O                                                                                                                                |  |  | FRAME         |  |  | HP                                                                                                                         |                             |  | TYPE                  |  |  | PHASE/<br>HERTZ                            |  |                                                              | RPM                                        |  |  | VOLTS     |  |  |
|                                                                                                                                    |  |  | 449T          |  |  | 200                                                                                                                        |                             |  | P                     |  |  | 3/60                                       |  |                                                              | 1790                                       |  |  | 460       |  |  |
| AMPS                                                                                                                               |  |  | DUTY          |  |  | AMB °C/<br>INSUL                                                                                                           |                             |  | S.F.                  |  |  | NEMA<br>DESIGN                             |  |                                                              | CODE<br>LETTER                             |  |  | ENCLOSURE |  |  |
| 227                                                                                                                                |  |  | CONT          |  |  | 40/F                                                                                                                       |                             |  | 1.15                  |  |  | A                                          |  |                                                              | J                                          |  |  | TEFC      |  |  |
| E/S                                                                                                                                |  |  | ROTOR         |  |  | TEST<br>S.O.                                                                                                               |                             |  | TEST<br>DATE          |  |  | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES) |  |                                                              |                                            |  |  |           |  |  |
| ---                                                                                                                                |  |  | A44RC40124A00 |  |  | ---                                                                                                                        |                             |  | ---                   |  |  | .0127                                      |  |                                                              |                                            |  |  |           |  |  |
| PERFORMANCE                                                                                                                        |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |
| LOAD                                                                                                                               |  |  | HP            |  |  | AMPERES                                                                                                                    |                             |  | RPM                   |  |  | % POWER FACTOR                             |  |                                                              | % EFFICIENCY                               |  |  |           |  |  |
| NO LOAD                                                                                                                            |  |  | 0             |  |  | 74.5                                                                                                                       |                             |  | 1800                  |  |  | 3.59                                       |  |                                                              | 0                                          |  |  |           |  |  |
| 1/4                                                                                                                                |  |  | 50.0          |  |  | 93.5                                                                                                                       |                             |  | 1797                  |  |  | 53.2                                       |  |                                                              | 94.1                                       |  |  |           |  |  |
| 2/4                                                                                                                                |  |  | 100           |  |  | 130                                                                                                                        |                             |  | 1795                  |  |  | 74.8                                       |  |                                                              | 96.2                                       |  |  |           |  |  |
| 3/4                                                                                                                                |  |  | 150           |  |  | 176                                                                                                                        |                             |  | 1792                  |  |  | 82.4                                       |  |                                                              | 96.6                                       |  |  |           |  |  |
| 4/4                                                                                                                                |  |  | 200           |  |  | 227                                                                                                                        |                             |  | 1789                  |  |  | 85.3                                       |  |                                                              | 96.5                                       |  |  |           |  |  |
| 5/4                                                                                                                                |  |  | 250           |  |  | 279                                                                                                                        |                             |  | 1786                  |  |  | 87.1                                       |  |                                                              | 96.3                                       |  |  |           |  |  |
|                                                                                                                                    |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |
| SPEED TORQUE                                                                                                                       |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |
|                                                                                                                                    |  |  |               |  |  | RPM                                                                                                                        |                             |  | TORQUE<br>% FULL LOAD |  |  | TORQUE LB.-FT.                             |  |                                                              | AMPERES                                    |  |  |           |  |  |
| LOCKED ROTOR                                                                                                                       |  |  |               |  |  | 0                                                                                                                          |                             |  | 208                   |  |  | 1220                                       |  |                                                              | 1830                                       |  |  |           |  |  |
| PULL UP                                                                                                                            |  |  |               |  |  | 1200                                                                                                                       |                             |  | 193                   |  |  | 1135                                       |  |                                                              | 1535                                       |  |  |           |  |  |
| BREAKDOWN                                                                                                                          |  |  |               |  |  | 1726                                                                                                                       |                             |  | 335                   |  |  | 1970                                       |  |                                                              | 1000                                       |  |  |           |  |  |
| FULL LOAD                                                                                                                          |  |  |               |  |  | 1789                                                                                                                       |                             |  | 100                   |  |  | 587                                        |  |                                                              | 227                                        |  |  |           |  |  |
| AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE. |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |
| TYPICAL DATA<br>NEMA NOM. EFF. 96.5 PCT                                                                                            |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |
|                                                 |  |  |               |  |  | DRAWN BY: <u>W. L. SMITH</u><br>CHECKED BY: <u>C.E.JAMISON</u><br>APPROVED BY: <u>W. L. SMITH</u><br>DATE: <u>12/03/24</u> |                             |  |                       |  |  | AC MOTOR<br>PERFORMANCE<br>DATA            |  |                                                              | A44WG6734-R002<br><br>DATE ISSUED 12/03/24 |  |  |           |  |  |
|                                                                                                                                    |  |  |               |  |  |                                                                                                                            |                             |  |                       |  |  |                                            |  |                                                              |                                            |  |  |           |  |  |

FRAME 449T

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

HP 200

AMPS 227

CODE LETTER J

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

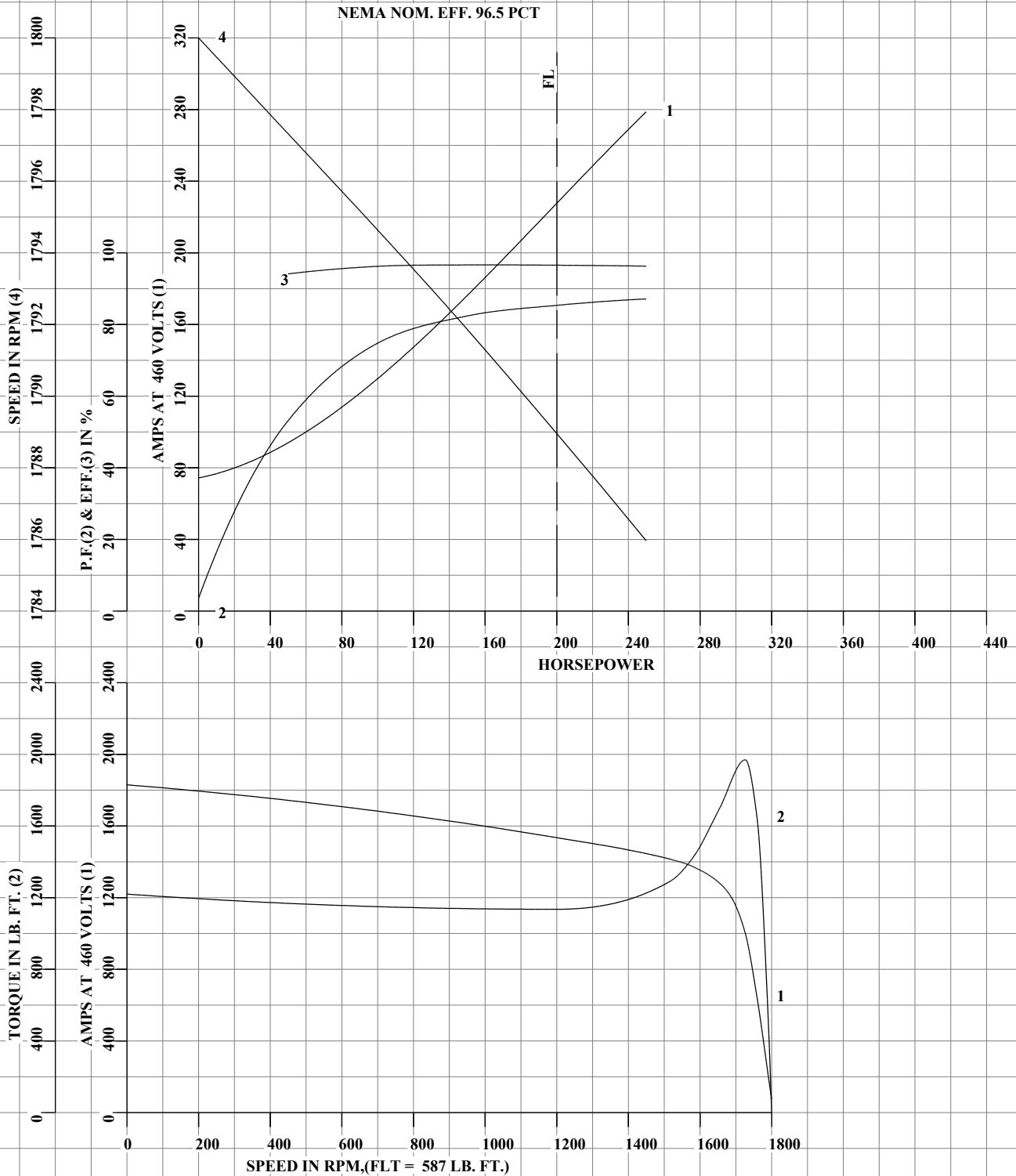
STATOR RES. @ 25°C .0127

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S ---

OHMS (BETWEEN LINES)



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

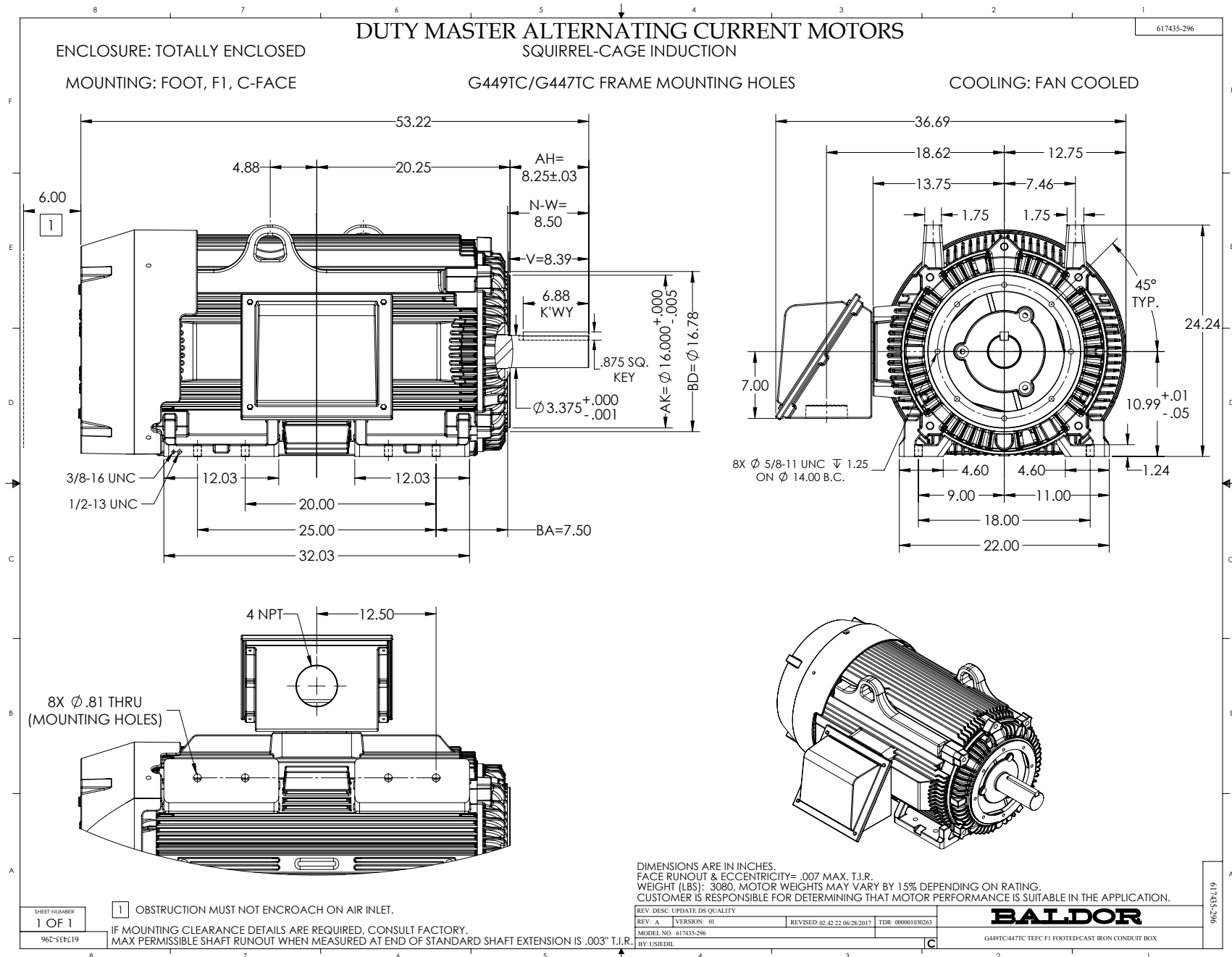


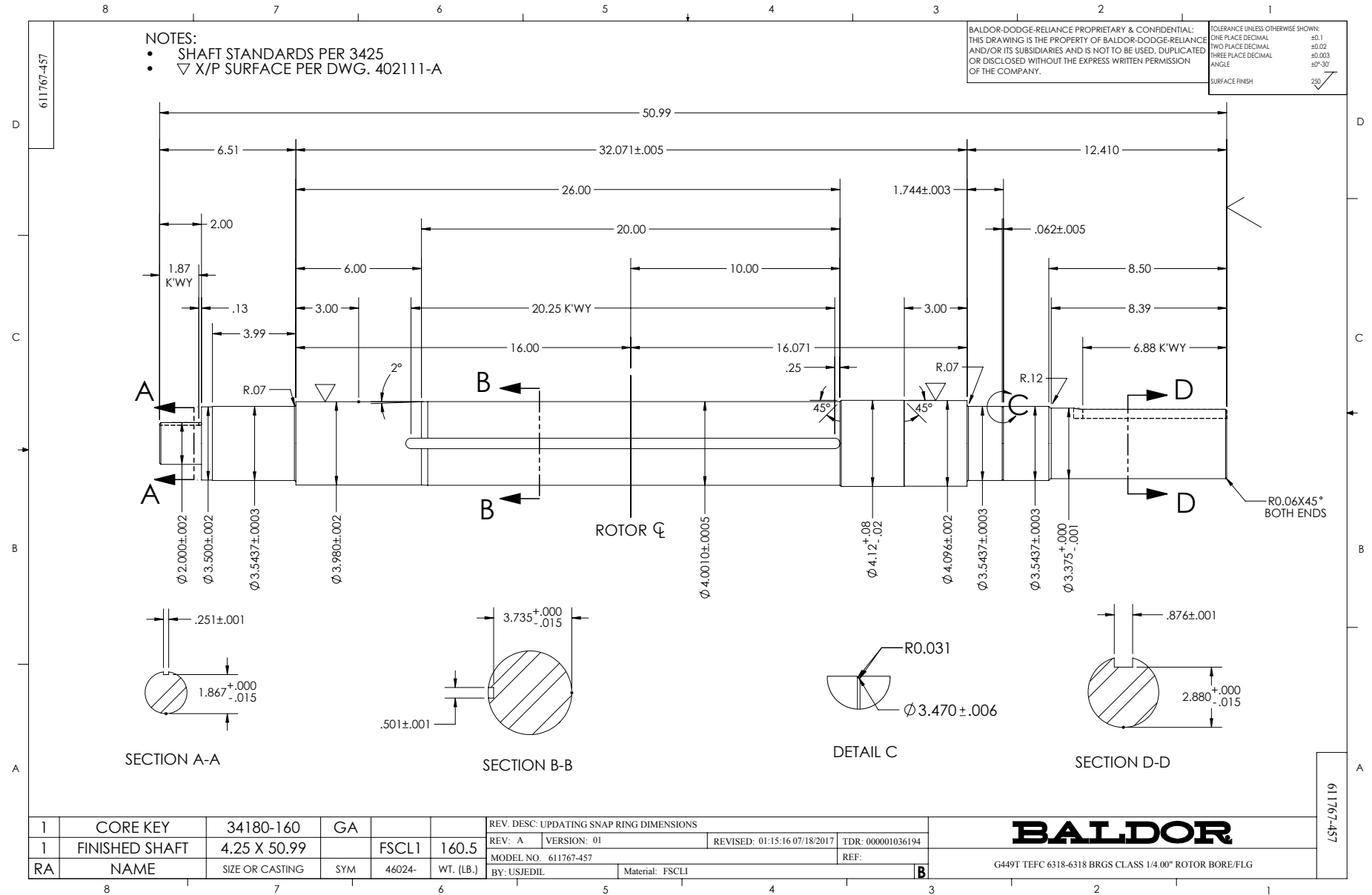
DRAWN BY: W. L. SMITH  
CHECKED BY: C.E. JAMISON  
APPROVED BY: W. L. SMITH  
DATE: 12/03/24

AC MOTOR  
PERFORMANCE  
DATA

A44WG6734-R002

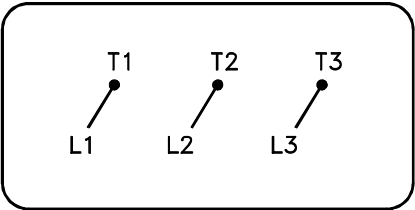
ISSUE DATE 12/03/24





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