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# Customer information packet

## SPM44302TS-4

300HP, 3570RPM, 3PH, 60HZ, L449TS, A44208M, TE

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

## Specifications

|                               |                                       |
|-------------------------------|---------------------------------------|
| Enclosure                     | TEFC                                  |
| Frame                         | L449TS                                |
| Frame Material                | Iron                                  |
| Frequency                     | 60.00 Hz                              |
| Haz Area Class and Group      | CLI GP A,B,C,D; CLII GP F,G           |
| Haz Area Division             | Division II                           |
| Motor Letter Type             | Three Phase                           |
| Output @ Frequency            | 300.000 HP @ 60 HZ                    |
| Phase                         | 3                                     |
| Synchronous Speed @ Frequency | 3600 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             | 315.000 A @ 460.0 V                   |
| Design Code                   | B                                     |
| Duty Rating                   | CONT                                  |
| Efficiency @ 100% Load        | 96.2 %                                |
| Feedback Device               | NO FEEDBACK                           |
| Frame Prefix                  | L                                     |
| Heater Indicator              | No Heater                             |
| High Voltage Full Load Amps   | 315.0 a                               |
| Insulation Class              | F                                     |
| Inverter Code                 | Inverter Ready                        |
| KVA Code                      | F                                     |
| Lifting Lugs                  | Standard Lifting Lugs                 |
| Max Speed                     | 4200 rpm                              |
| Motor Lead Quantity/Wire Size | 6 @ 3/0 AWG                           |

## Part detail

|              |                      |
|--------------|----------------------|
| Revision     | -                    |
| Type         | AC                   |
| Mech. spec.  |                      |
| Base         |                      |
| Status       | PRD/A                |
| Elec. spec.  | A44WG5291            |
| Layout       | 617439-226           |
| Eff. date    | 01-22-2025           |
| CD Diagram   | 416820-036           |
| Poles        | 02                   |
| Leads        | 3#3/0 (02 per group) |
| Proprietary  | False                |
| Created date | 12-18-2024           |

|                                 |                    |
|---------------------------------|--------------------|
| <b>Motor Standards</b>          | <b>NEMA</b>        |
| <b>Motor Type</b>               | A44208M            |
| <b>Mounting Arrangement</b>     | F1                 |
| <b>Number of Poles</b>          | 2                  |
| <b>Overall Length</b>           | 56.71 IN           |
| <b>Power Factor</b>             | 93                 |
| <b>Product Family</b>           | General Industrial |
| <b>Pulley End Bearing Type</b>  | Ball               |
| <b>Pulley Face Code</b>         | Standard           |
| <b>Service Factor</b>           | 1.15               |
| <b>Shaft Diameter</b>           | 2.375 IN           |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding |
| <b>Shaft Rotation</b>           | Reversible         |
| <b>Shaft Slinger Indicator</b>  | Shaft Slinger      |
| <b>Speed</b>                    | 3570 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**

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

## NP4562L

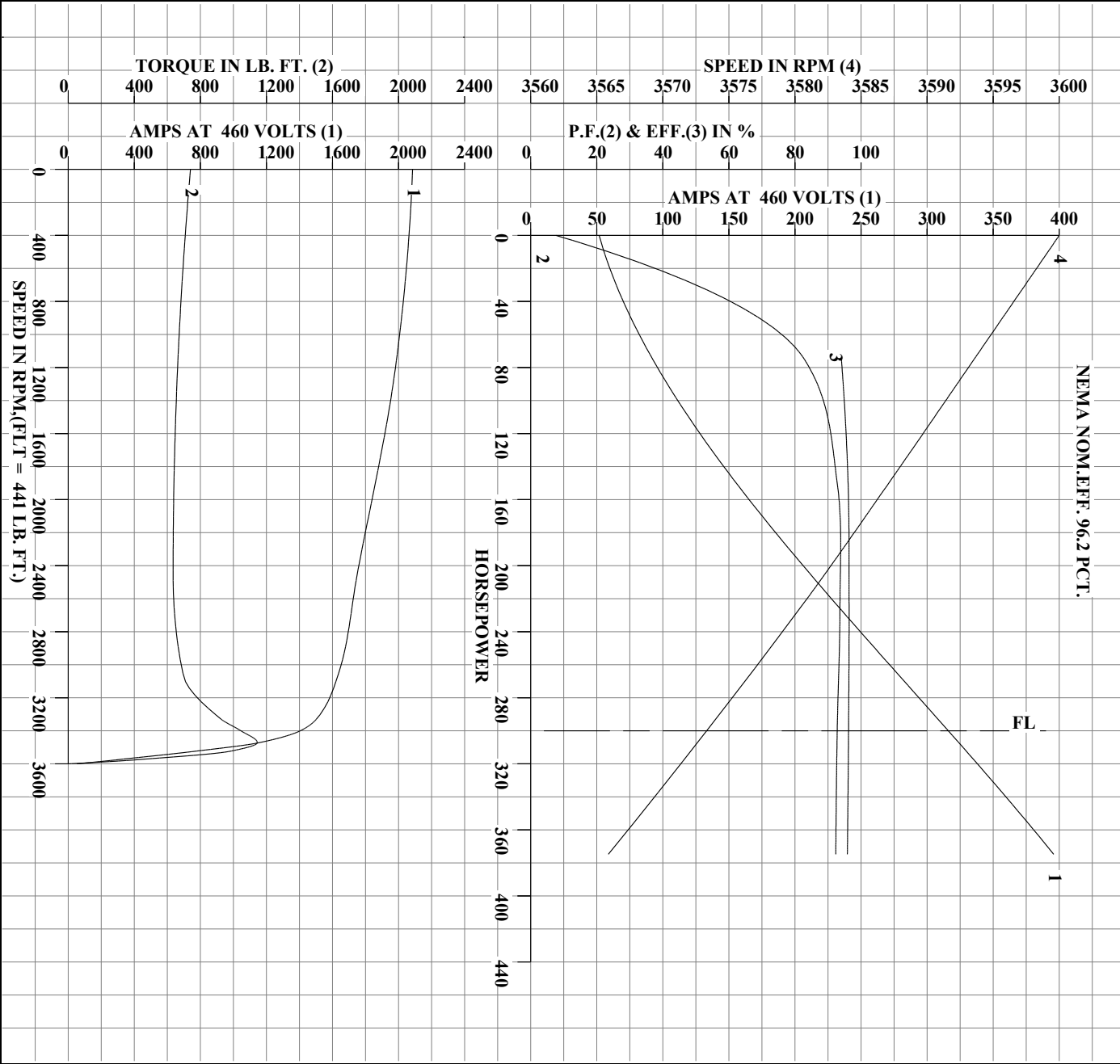
|                  |              |               |                         |      |                         |                     |      |             |                        |             |         |                 |      |                 |     |     |
|------------------|--------------|---------------|-------------------------|------|-------------------------|---------------------|------|-------------|------------------------|-------------|---------|-----------------|------|-----------------|-----|-----|
| CAT NO           | SPM44302TS-4 |               | SPEC NO.                |      | A44-5011-5291           |                     |      | I.P.        |                        | 55          |         |                 |      |                 |     |     |
| HP               | 300          | AMPS          | 315                     |      | VOLTS                   |                     | 460  |             | DESIGN                 |             | B       |                 |      |                 |     |     |
| FRAME SIZE       | L449TS       | RPM           | 3570                    |      | MAX RPM                 |                     | 4200 | HZ          | 60                     | AMB         | 40      |                 |      |                 |     |     |
| D.E. BRG.        | 65BC03J30X   |               | PH.3                    | 3    | DUTY                    | CONT                |      | INSUL.CLASS |                        |             | F       |                 |      |                 |     |     |
| O.D.E. BRG.      | 65BC03J30X   |               | TYPE P                  |      | P                       | ENCL                | TEFC | SF          | 1.15                   | CODE        | F       |                 |      |                 |     |     |
| POWER FACTOR     | 93           | MAX CORR KVAR |                         | 16   |                         | NEMA NOM EFFICIENCY |      |             |                        | 96.2        |         | MOTOR WEIGHT    |      | 3345            | LBS |     |
| CL.I,DIV 2,GRP:  | A,B,C,D      |               | T.CODE                  | T2D  |                         | CL.1,ZONE 2,GRP:    |      |             |                        | IIA,IIB,IIC |         | T=              | 215  | INVERTER T.CODE |     | T2B |
| CL.II,DIV 2,GRP: | F,G          | T.CODE        | T3C                     |      | CL II ZONE 22 GRPS IIIB |                     |      |             | T=                     |             | 160     | INVERTER T.CODE |      |                 | T3C |     |
| ID LOGO          | INV TYPE:    | VPWM          | CT                      | 30   | TO                      | 60                  | VT   | 3           | TO                     | 60          | CHP     | 60              | TO   | 70              |     |     |
| ID LOGO          | 1.0 SF VPWM  |               | WK2                     | 52.4 |                         | LBFT2               |      | SL HZ       | 0.44                   |             | MAG CUR |                 | 52.5 |                 |     |     |
| SER.NO.          |              |               | MEETS INTENT OF IEEE-45 |      |                         |                     |      |             | FOR WEATHER PROTECTION |             |         |                 |      |                 |     |     |

|                                                                                                                                       |            |                                                                                            |                       |                                            |                                        |           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------|----------------------------------------|-----------|
| S/O                                                                                                                                   | FRAME      | HP                                                                                         | TYPE                  | PHASE/<br>HERTZ                            | RPM                                    | VOLTS     |
|                                                                                                                                       | L449TS     | 300                                                                                        | P                     | 3/60                                       | 3570                                   | 460       |
|                                                                                                                                       |            |                                                                                            |                       |                                            |                                        |           |
| AMPS                                                                                                                                  | DUTY       | AMB °C/<br>INSUL                                                                           | S.F.                  | NEMA<br>DESIGN                             | CODE<br>LETTER                         | ENCLOSURE |
| 315                                                                                                                                   | CONT       | 40/F                                                                                       | 1.15                  | B                                          | F                                      | TEFC      |
|                                                                                                                                       |            |                                                                                            |                       |                                            |                                        |           |
| E/S                                                                                                                                   | ROTOR      | TEST<br>S.O.                                                                               | TEST<br>DATE          | STATOR RES. @25 °C<br>OHMS (BETWEEN LINES) |                                        |           |
| ---                                                                                                                                   | 418143006B | ---                                                                                        | ---                   | .00837                                     |                                        |           |
| PERFORMANCE                                                                                                                           |            |                                                                                            |                       |                                            |                                        |           |
| LOAD                                                                                                                                  | HP         | AMPERES                                                                                    | RPM                   | % POWER FACTOR                             | % EFFICIENCY                           |           |
| NO LOAD                                                                                                                               | 0          | 52.5                                                                                       | 3600                  | 7.63                                       | 0                                      |           |
| 1/4                                                                                                                                   | 75.0       | 90.2                                                                                       | 3594                  | 82.8                                       | 94.0                                   |           |
| 2/4                                                                                                                                   | 150        | 157                                                                                        | 3587                  | 92.8                                       | 96.1                                   |           |
| 3/4                                                                                                                                   | 225        | 233                                                                                        | 3580                  | 93.6                                       | 96.4                                   |           |
| 4/4                                                                                                                                   | 300        | 315                                                                                        | 3573                  | 92.8                                       | 96.2                                   |           |
| 5/4                                                                                                                                   | 375        | 396                                                                                        | 3566                  | 92.4                                       | 95.9                                   |           |
|                                                                                                                                       |            |                                                                                            |                       |                                            |                                        |           |
| SPEED TORQUE                                                                                                                          |            |                                                                                            |                       |                                            |                                        |           |
|                                                                                                                                       |            | RPM                                                                                        | TORQUE<br>% FULL LOAD | TORQUE LB.-FT.                             | AMPERES                                |           |
| LOCKED ROTOR                                                                                                                          |            | 0                                                                                          | 168                   | 740                                        | 2085                                   |           |
| PULL UP                                                                                                                               |            | 2450                                                                                       | 144                   | 635                                        | 1750                                   |           |
| BREAKDOWN                                                                                                                             |            | 3471                                                                                       | 260                   | 1145                                       | 1160                                   |           |
| FULL LOAD                                                                                                                             |            | 3573                                                                                       | 100                   | 441                                        | 315                                    |           |
| AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY<br>INVERSELY WITH THE RATED VOLTAGE. |            |                                                                                            |                       |                                            |                                        |           |
| TYPICAL DATA<br>NEMA NOM.EFF. 96.2 PCT.                                                                                               |            |                                                                                            |                       |                                            |                                        |           |
|                                                      |            | DRAWN BY: W.L.SMITH<br>CHECKED BY: C.E.JAMISON<br>APPROVED BY: W.L.SMITH<br>DATE: 12/18/24 |                       | AC MOTOR<br>PERFORMANCE<br>DATA            | A44WG5291-R004<br>DATE ISSUED 12/18/24 |           |

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|                    |              |                      |                |                           |
|--------------------|--------------|----------------------|----------------|---------------------------|
| REL.S.O.           | FRAME L449TS | RPM 3570             | S.F. 1.15      | ROTOR 418143006B          |
| HP 300             |              | VOLTS 460            | NEMA DESIGN B  | TEST S.O. TYPICAL DATA    |
| TYPE P             |              | AMPS 315             | CODE LETTER F  | TEST DATE --              |
| PHASE / HERTZ 3/60 |              | DUTY CONT            | ENCLOSURE TEFC | STATOR RES. @ 25°C .00837 |
|                    |              | 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: 12/18/24

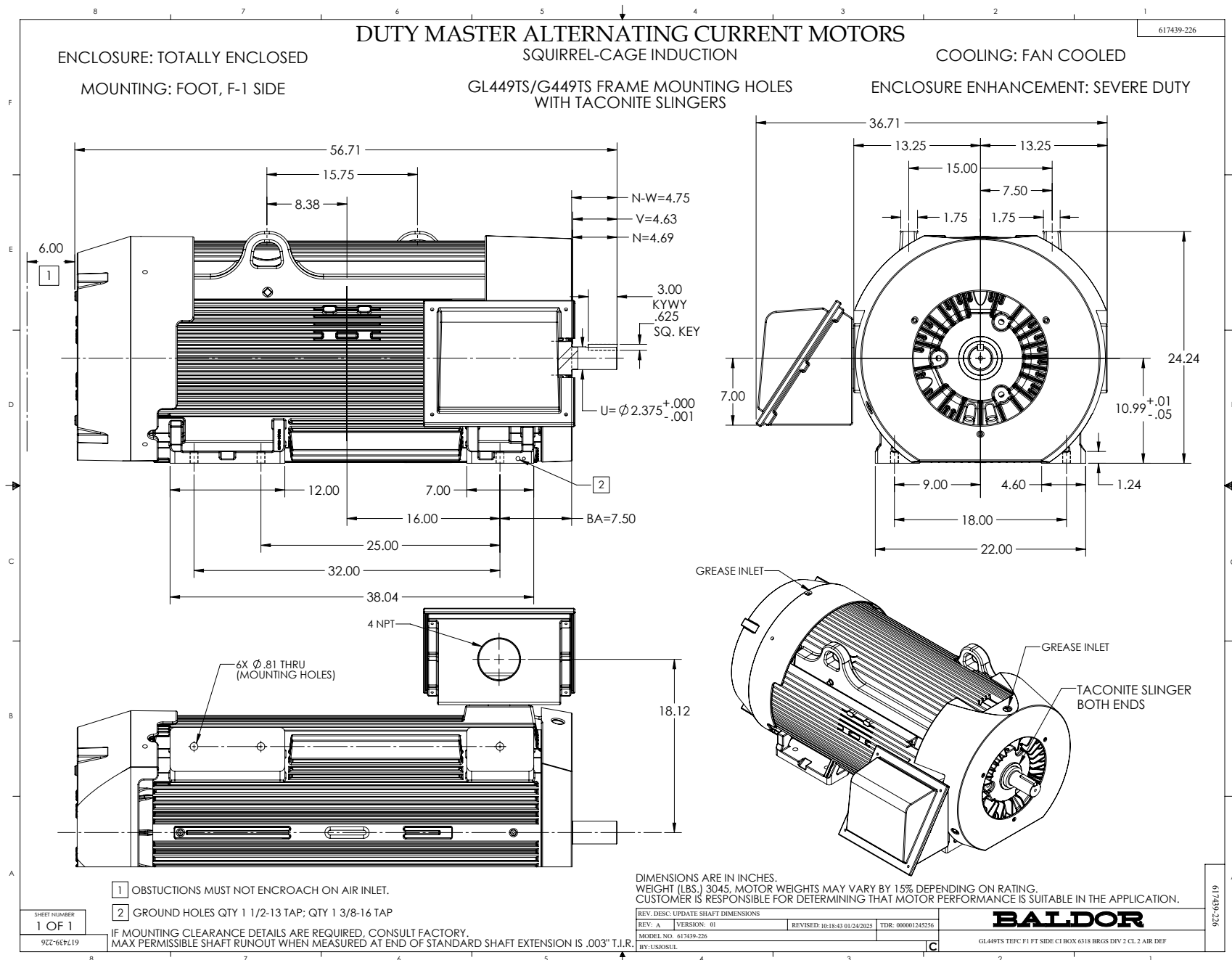
AC MOTOR  
PERFORMANCE  
DATA

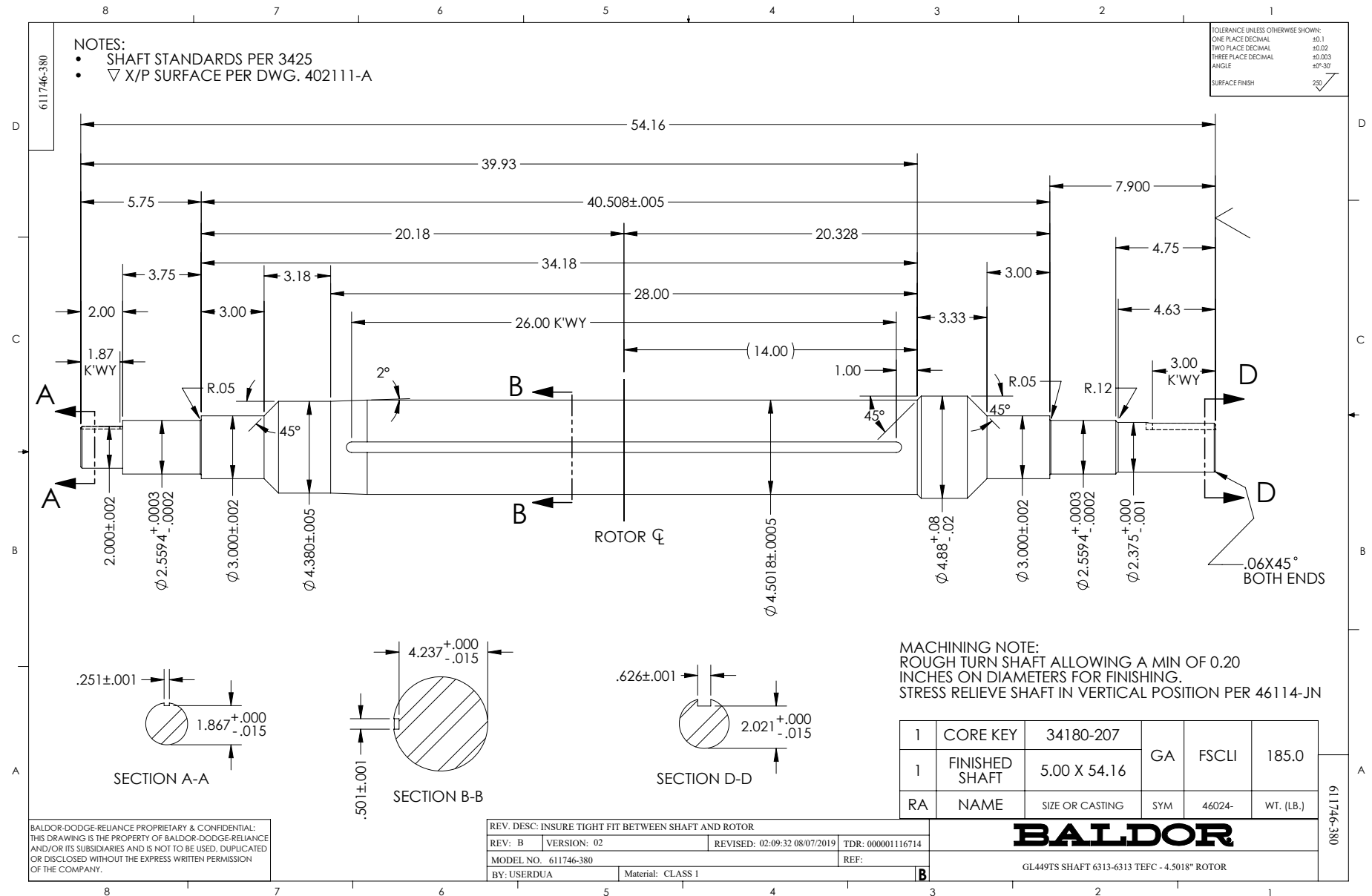
A44WGS291-R004

ISSUE DATE 12/18/24

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416820-036

A-C MOTOR  
CONNECTION DIAGRAM  
STANDARD 3 LEAD                      CONNECTED



(N.P. 1575-BA)

|                                      |             |                                |
|--------------------------------------|-------------|--------------------------------|
| 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

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