

# ABB BALDOR RELIANCE III

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## Customer information packet

### IDBRPM321504R1

150HP, 1750, 460V, FL3203, TEBC, F3

**Specifications**

|                               |                         |
|-------------------------------|-------------------------|
| Enclosure                     | TEBC                    |
| Frame                         | FL3203Z                 |
| Frame Material                | Exposed Laminations     |
| Frequency                     | 60.00 Hz                |
| Output @ Frequency            | 150.000 HP @ 60 HZ      |
| Phase                         | 3                       |
| Synchronous Speed @ Frequency | 1800 RPM @ 60 HZ        |
| Voltage @ Frequency           | 460.0 V @ 60 HZ         |
| Agency Approvals              | CCSA US                 |
| Auxiliary Box                 | NO AUXILLARY BOX        |
| Base Indicator                | Rigid                   |
| Bearing Grease Type           | Polyrex EM (-20F +300F) |
| Current @ Voltage             | 179.000 A @ 460.0 V     |
| Duty Rating                   | CONT                    |
| Feedback Device               | NO FEEDBACK             |
| Frame Prefix                  | FL                      |
| Heater Indicator              | No Heater               |
| High Voltage Full Load Amps   | 179.0 a                 |
| Insulation Class              | H                       |
| IP Rating                     | NONE                    |
| Motor Standards               | NEMA                    |
| Mounting Arrangement          | F3                      |
| Overall Length                | 55.48 IN                |
| Product Family                | General Industrial      |
| Pulley End Bearing Type       | Ball                    |
| Pulley Face Code              | Standard                |
| Service Factor                | 1.00                    |
| Shaft Diameter                | 2.874 IN                |
| Shaft Ground Indicator        | Shaft Grounding         |
| Shaft Rotation                | Reversible              |
| Speed                         | 1780 rpm                |
| Thermal Device - Bearing      | None                    |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | E          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | L6805A     |
| Layout       | 619689-001 |
| Eff. date    | 05-03-2022 |
| CD Diagram   | 422927-001 |
| Poles        | 04         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 11-30-2015 |

**Thermal Device - Winding**

**Normally Closed Thermostat**

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Nameplate

| 000613006MY |                |                |      |             |               |         |    |           |     |
|-------------|----------------|----------------|------|-------------|---------------|---------|----|-----------|-----|
|             | DUTY           | HP             | RPM  | AMPS        | VOLTS         | HZ      |    |           |     |
|             | CONT           | 150            | 1780 |             | 179           | 460     |    | 60        |     |
|             | CONT           | 150            | 3555 |             | 171           | 460     |    | 120       |     |
|             |                |                |      |             |               |         |    |           |     |
|             |                |                |      |             |               |         |    |           |     |
|             |                |                |      |             |               |         |    |           |     |
| CAT.NO.     | IDBRPM321504R1 |                |      | SPEC. NO.   | F32-A000-0008 |         |    |           |     |
| SER.NO      |                |                |      | FR          | FL3203Z       | INSUL   | H  |           |     |
| PH.         | 3              | MAX SAFE SPEED |      |             | 4000          | AMB.    | 40 | MIN. AMB. | -25 |
| DESIGN NO.  | L6805A         |                | TYPE |             | ENCL.         | TEAO-BC |    |           |     |
| S.F.        | 1.00           |                |      | D.E. BRG.   | 85BC02J30X    |         |    |           |     |
| ENCL MOD    |                |                |      | O.D.E. BRG. | 65BC03J30X    |         |    |           |     |
|             |                |                |      |             |               |         |    |           |     |
|             |                |                |      |             |               |         |    |           |     |

**Parts List**

| Part number  | Description                         | Quantity |
|--------------|-------------------------------------|----------|
| WS303309     | WS F32-A000-0008                    | 1.000 ea |
| RA299518     | RA F32-A000-0008                    | 1.000 ea |
| 418018122A   | LABEL                               | 2.000 ea |
| 033775004EA  | DRSCR #6-1/4 304 S.S.               | 4.000 ea |
| 000613006MY  | NP-RPMAC INVERTER DUTY              | 1.000 ea |
| 000692000NH  | LABEL DIRECTION AIR FL              | 1.000 ea |
| LB1613       | LABEL, QR CODE, ADHESIVE LABEL      | 1.000 ea |
| 000692000XM  | LABEL QR CODE                       | 1.000 ea |
| LB1613       | LABEL, QR CODE, ADHESIVE LABEL      | 1.000 ea |
| 422927001    | C/D LABEL                           | 1.000 ea |
| 807584004AAB | BRKT,FL320,ODE 807584001WCB         | 1.000 ea |
| 807584003AAA | BRKT, DE, FL320                     | 1.000 ea |
| BP5068BJ01   | BRUSH, .187 X .187 X 1.00           | 2.000 ea |
| HA4054       | SHORT T-DRAIN FITTING, .125" N.P.T. | 1.000 ea |
| HA4054       | SHORT T-DRAIN FITTING, .125" N.P.T. | 1.000 ea |
| 004824015A   | GREASE POLYREX EM                   | 0.900 lb |
| 400638001AD  | WAVEN - 400 (Customer number 43699) | 1.000 ea |
| 036000016DB  | HHCS                                | 4.000 ea |
| 418150003A   | GREASE FITTING CAP                  | 2.000 ea |
| 035000001A   | ALFTG 1/8" 1610-BL                  | 1.000 ea |
| 035000001A   | ALFTG 1/8" 1610-BL                  | 1.000 ea |
| 036100090KA  | HSHCS BRACKET LE                    | 4.000 ea |
| 036140001E   | EYEBOLT                             | 2.000 ea |
| 036100090KA  | HSHCS BRACKET LE                    | 4.000 ea |
| 034690002AL  | 1/4 SQ.HD.PIPE PLUG                 | 1.000 ea |
| 034690002AL  | 1/4 SQ.HD.PIPE PLUG                 | 1.000 ea |
| 036500013AB  | M16 X 2.0 HX NUT,ODE BRKT 304589    | 4.000 ea |
| BP5248       | BP5248                              | 2.000 ea |
| 036500013AB  | M16 X 2.0 HX NUT,ODE BRKT 304589    | 4.000 ea |
| 609830005AAK | TBOLT                               | 2.000 ea |
| 609830005AAM | TBOLT                               | 2.000 ea |

|             |                                      |           |
|-------------|--------------------------------------|-----------|
| 610490001AF | 24M 2P TEFC VER 56C SUPER E          | 1.000 ea  |
| 036000012JB | M8-1.25 X 12MM HXHDC                 | 3.000 ea  |
| 611965001A  | WHEEL, BLOWER                        | 1.000 ea  |
| 417733004J  | GASKT                                | 2.000 ea  |
| 611917002F  | GASKT                                | 1.000 ea  |
| 804814055A  | PLATE, BLWR MTG, FL320               | 1.000 ea  |
| 036000016JB | HHCS M8-1.25X16MMPLTD-250            | 4.000 ea  |
| 032018006CK | HHCS 3/8-16X3/4L PLATED 411409       | 4.000 ea  |
| 804814053A  | CVR, FAN, FL320, TOP MT              | 1.000 ea  |
| 036000020KB | MHHCS M10-1.5X20MM PLTD.             | 12.000 ea |
| 000613006NT | NAME PLATE IEC                       | 1.000 ea  |
| 417733036C  | GASKT,C/BOX BACKPLATE,REF 706310063B | 1.000 ea  |
| 418057256C  | HHCS M10 25MM 440 IEC                | 1.000 ea  |
| 036000016KB | HHCSM10-1.5X16MM PLTD-280            | 4.000 ea  |
| 706310389B  | ENTRY PLATE 706310389AB              | 1.000 ea  |
| 417733014C  | GASKT (REK P/N 187215)               | 1.000 ea  |
| 036000020JD | HHCS M8X20MM LONG 304S.S             | 5.000 ea  |
| 418018074A  | GROUND LABEL G100 METRIC 160 D.C.    | 1.000 ea  |
| 804814054A  | GUARD, FAN, FL320                    | 2.000 ea  |
| 708528004B  | BLOWER HOUSING                       | 1.000 ea  |
| 410978010E  | INLET FLGE                           | 1.000 ea  |
| 410978019A  | SCREEN, INLET FLANGE                 | 1.000 ea  |
| 406673002K  | PLUG,CAP                             | 1.000 ea  |
| 036000045JB | M8-1.25 X 45MM HXHCS                 | 4.000 ea  |
| 036620010AB | M10 EXT. TOOTH LK WASHER             | 1.000 ea  |
| 034630001AJ | 1/8" PIPE COUPLING                   | 1.000 ea  |
| 034017014AB | LCKW 3/8 STD. PLATED                 | 4.000 ea  |
| 613439051A  | ADAPT,CBOX,RL320                     | 1.000 ea  |
| 034530016AB | P/NIP 1/8X2 PLATED - 320             | 1.000 ea  |
| 418014004A  | 609185004cDPT/BOX                    | 1.000 ea  |
| 036600008AD | FLTWSHR,T BLK SPT                    | 8.000 ea  |
| 804814051A  | BRACE, FAN CVR, FL320                | 4.000 ea  |
| 706310063B  | CBOX (REK)                           | 1.000 ea  |
| 706310058B  | CBCVR(REK P/N 187296)                | 1.000 ea  |

|              |                                         |          |
|--------------|-----------------------------------------|----------|
| 417733013B   | GASKT (REK P/N 189486)                  | 1.000 ea |
| 036000020HD  | HHCS M6X20MM LONG 304S.S                | 8.000 ea |
| 036000012KB  | M10 1.50 X 12MM HXHDCS                  | 4.000 ea |
| 034180034JA  | KEY 3/4X3/4X4-1/4 L                     | 1.000 ea |
| 000640000P   | TAG WINDING THERMOST                    | 1.000 ea |
| 004824007BTW | SPECIAL PAINT4824-3BVZ                  | 0.300 ea |
| 415000003E   | T/LUG #4AWG-1/0AWG W/HOLE FOR .375 BOLT | 1.000 ea |
| LB1549       | LABEL, BLANK 1.375 X 2.250 IMPRINTABLE  | 1.000 ea |
| 004824007AB  | PAINT,XT                                | 0.100 ea |

|             |        |              |      |                                       |           |                                |       |         |
|-------------|--------|--------------|------|---------------------------------------|-----------|--------------------------------|-------|---------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE                             | TEBC      | WYE CONN EQ CKT OHMS PER PHASE |       |         |
| FRAME       | FL3203 | AMPS         | 179  | MAX SAFE RPM                          | 4000      | (AT BASE RATING, 25 °C)        |       |         |
| HP          | 150    | DUTY         | CONT | IM (AMPS)                             | 73        | R1                             | .0159 | X1 .105 |
| BASE SPEED  | 1780   | S.F.         | 1.0  | P.F.@NL/FL                            | .032/.837 | R2                             | .0113 | X2 .143 |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK <sup>2</sup> (Lb-Ft <sup>2</sup> ) | 21        |                                |       | XM 3.36 |

### RATED FULL LOAD DATA

|            | RPM  | HP  | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
|------------|------|-----|-----------------|---------------|---------|------|
| BASE SPEED | 1780 | 150 | 443             | 460           | 60      | 179  |
| MAX SPEED  | 3557 | 150 | 221             | 460           | 120     | 171  |
| MIN SPEED  | 0    | 0   | 443             | 8.33          | .654    | 179  |

### LOAD PERFORMANCE AT BASE SPEED

|           | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
|-----------|------|------|-----------------|---------------|---------|------|
| NO LOAD   | 1800 | 0    | 0               | 460           | 60      | 73.0 |
| 1/4       | 1795 | 37.5 | 110             | 460           | 60      | 89.0 |
| 1/2       | 1790 | 75.0 | 220             | 460           | 60      | 113  |
| 3/4       | 1786 | 112  | 331             | 460           | 60      | 144  |
| FULL LOAD | 1780 | 150  | 443             | 460           | 60      | 179  |
| O/L       | 1758 | 296  | 885             | 460           | 60      | 338  |

REMARKS: TYPICAL DATA



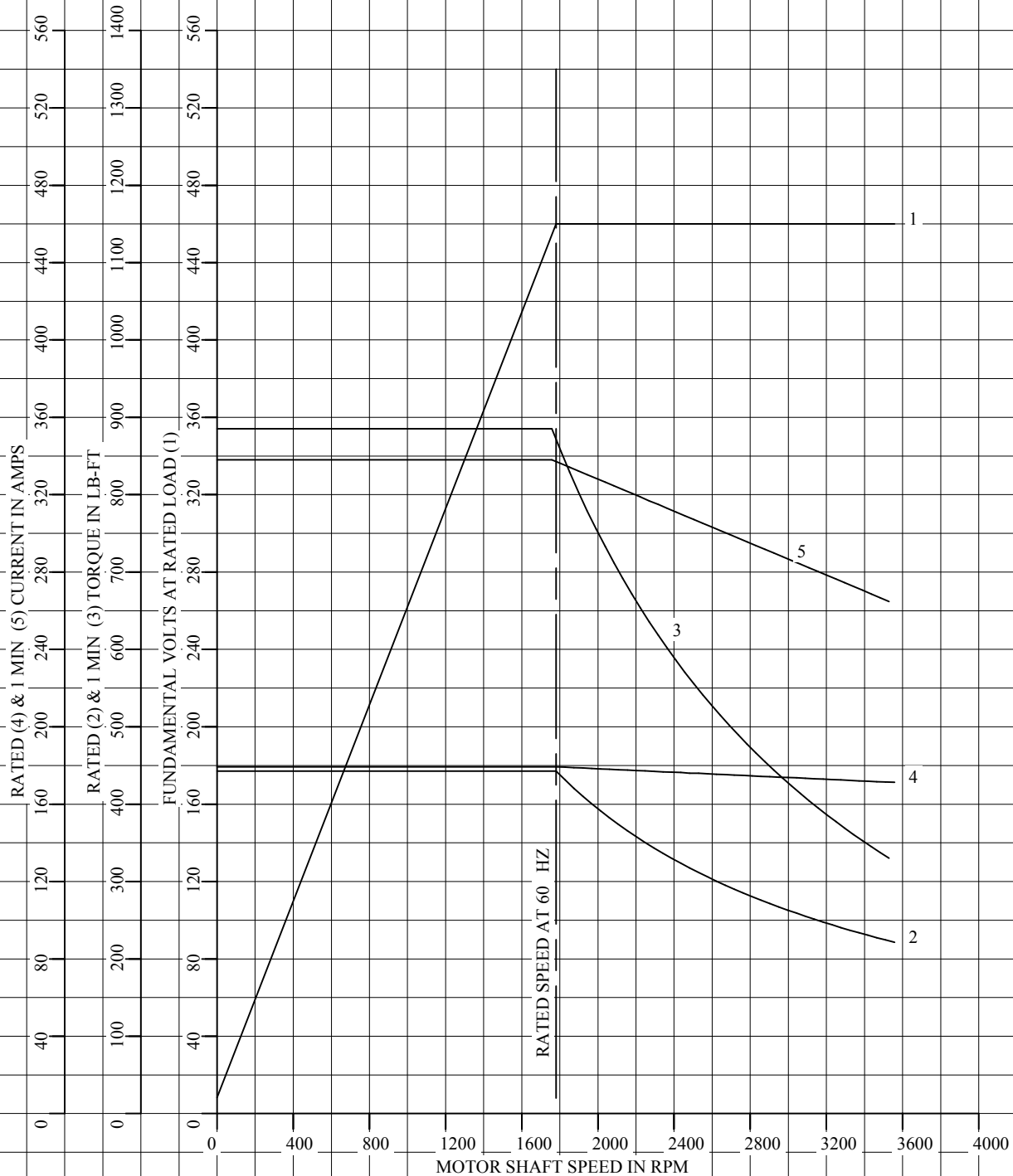
|         |            |
|---------|------------|
| DR. BY  | R. ROBERTS |
| CK. BY  | B. GRANT   |
| APP. BY | J. MARTIN  |
| DATE    | 11-24-15   |

**A-C MOTOR  
PERFORMANCE DATA** L6805A

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|             |        |              |      |                                       |           |                                |         |
|-------------|--------|--------------|------|---------------------------------------|-----------|--------------------------------|---------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE                             | TEBC      | WYE CONN EQ CKT OHMS PER PHASE |         |
| FRAME       | FL3203 | AMPS         | 179  | MAX SAFE RPM                          | 4000      | (AT BASE RATING, 25 °C)        |         |
| HP          | 150    | DUTY         | CONT | IM (AMPS)                             | 73        | R1 .0159                       | X1 .105 |
| BASE SPEED  | 1780   | S.F.         | 1.0  | P.F. @NL/FL                           | .032/.837 | R2 .0113                       | X2 .143 |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK <sup>2</sup> (Lb-Ft <sup>2</sup> ) | 21        | XM 3.36                        |         |

VARIABLE SPEED AC MOTOR CURVES



REMARKS: TYPICAL DATA  
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



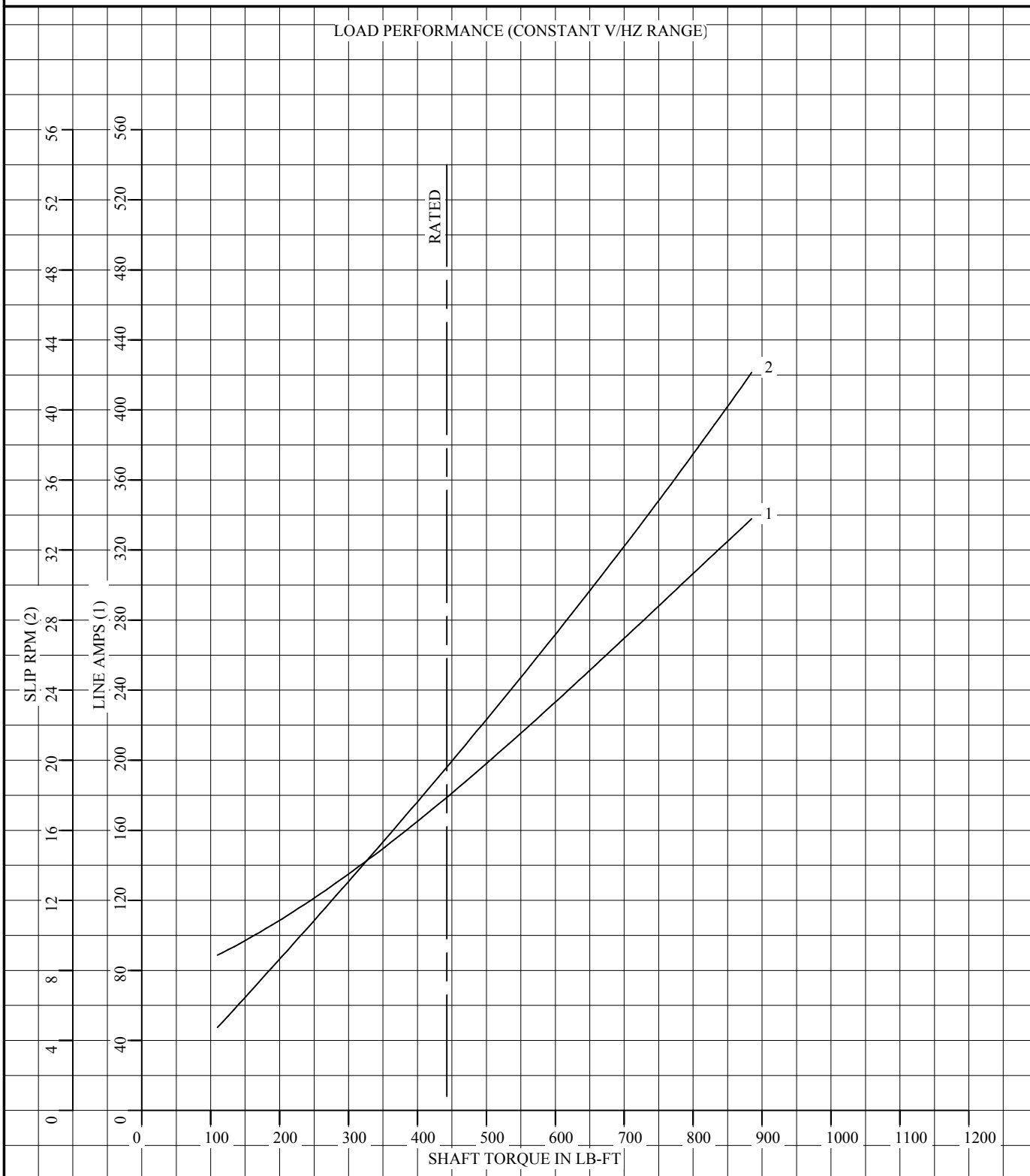
DR. BY R. ROBERTS  
CK. BY B. GRANT  
APP. BY J. MARTIN  
DATE 11-24-15

**A-C MOTOR  
PERFORMANCE  
CURVES**

**L6805A**  
SH 1 OF 2  
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|             |        |              |      |                                       |           |                                |         |
|-------------|--------|--------------|------|---------------------------------------|-----------|--------------------------------|---------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE                             | TEBC      | WYE CONN EQ CKT OHMS PER PHASE |         |
| FRAME       | FL3203 | AMPS         | 179  | MAX SAFE RPM                          | 4000      | (AT BASE RATING, 25 °C)        |         |
| HP          | 150    | DUTY         | CONT | IM (AMPS)                             | 73        | R1 .0159                       | X1 .105 |
| BASE SPEED  | 1780   | S.F.         | 1.0  | P.F. @NL/FL                           | .032/.837 | R2 .0113                       | X2 .143 |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK <sup>2</sup> (Lb-Ft <sup>2</sup> ) | 21        | XM 3.36                        |         |

LOAD PERFORMANCE (CONSTANT V/HZ RANGE)



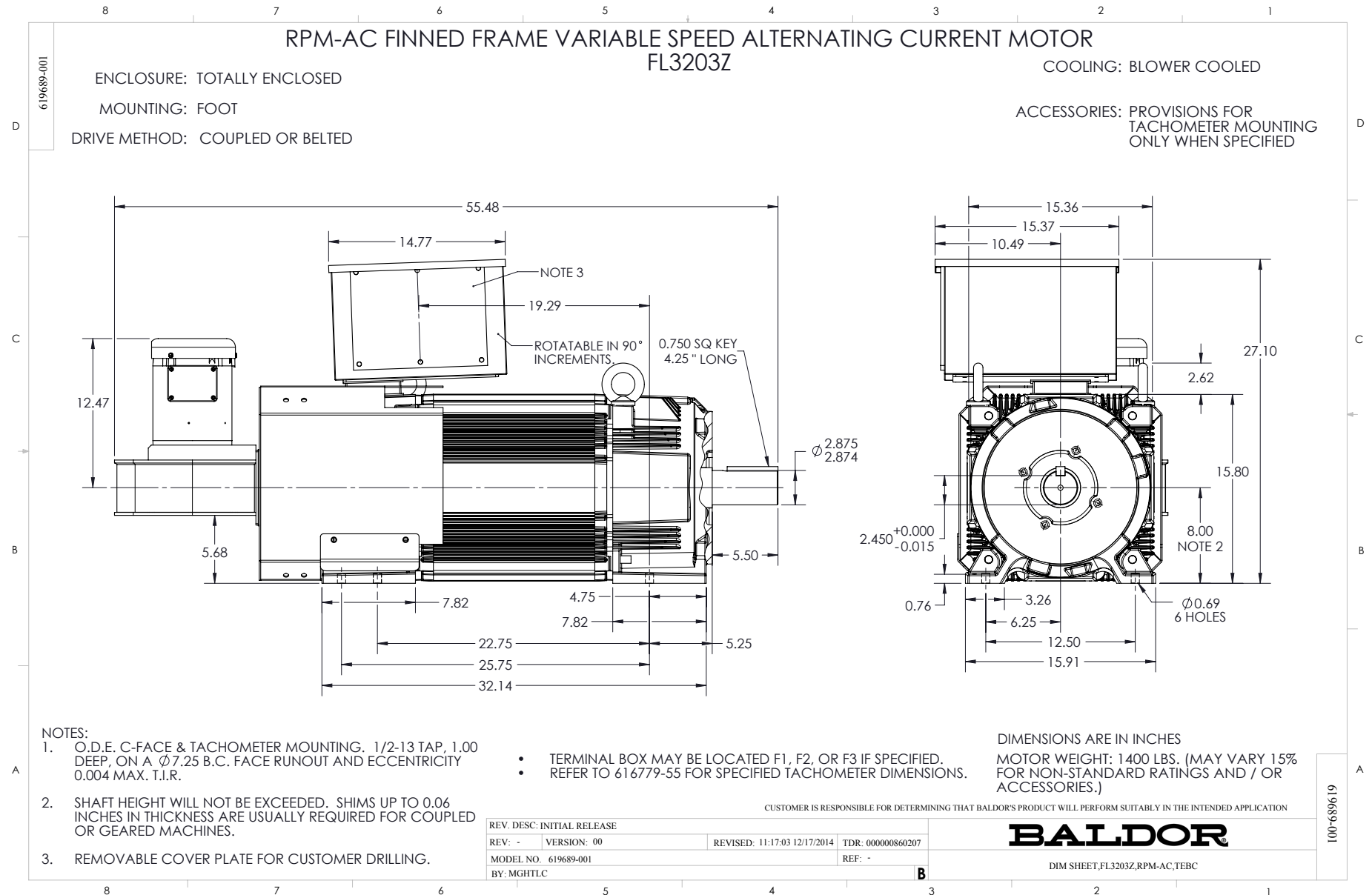
REMARKS: TYPICAL DATA  
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY



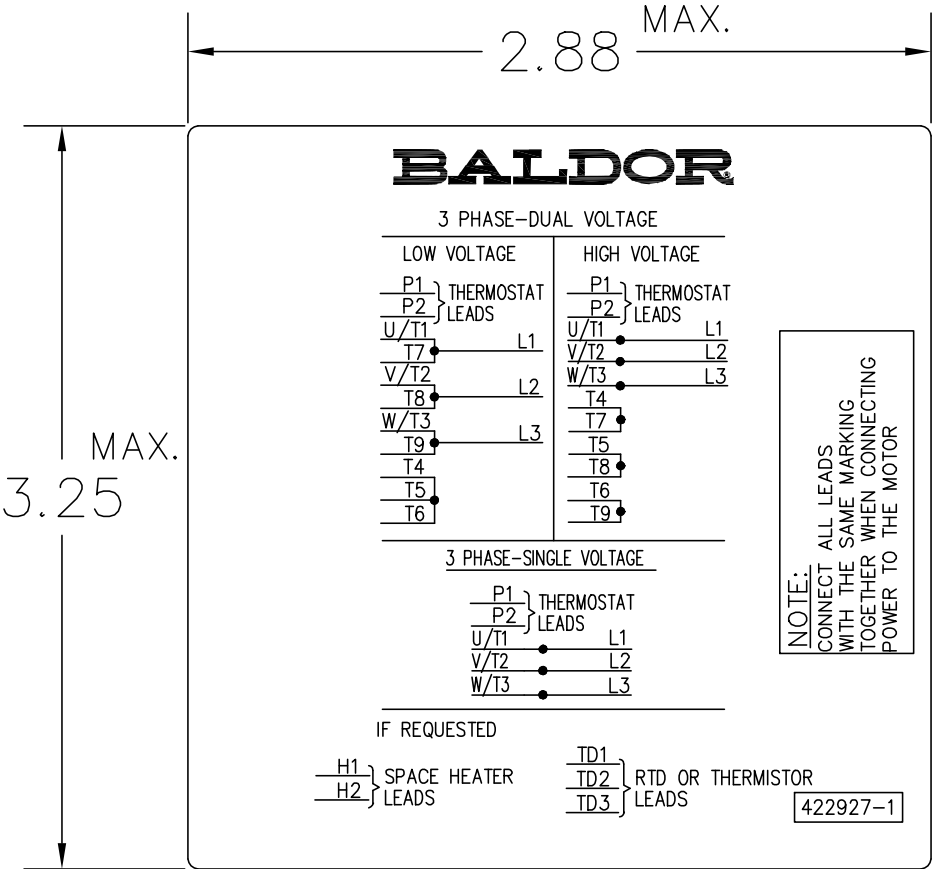
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CK. BY B. GRANT  
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DATE 11-24-15

**A-C MOTOR  
PERFORMANCE  
CURVES**

**L6805A**  
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422927-001



NOTE:  
DATA TO BE SIZED  
SO THAT IT FITS INTO  
MATERIAL DECAL  
DIMENSIONS. MAKE  
LETTERS & NUMBERS  
AS LARGE AS POSSIBLE.

MATERIAL: CERAMATIC DGF-P4  
PERMA GRIP ADHESIVE  
  
ALL LETTERS, NUMBERS  
AND LINES TO BE BLACK  
ON WHITE BACKGROUND.

422927-001

|                                                       |                              |                   |
|-------------------------------------------------------|------------------------------|-------------------|
| REV. DESC: CHANGE BACKGROUND COLOR FROM GOLD TO WHITE |                              |                   |
| REV. LTR: B                                           | VERSION: 02                  | TDR: 000000788708 |
| FILE: \RGG\00000\203                                  | REVISED: 08:09:29 03/04/2013 |                   |
| MTL: -                                                | BY: RGGWT                    |                   |

**BALDOR**  
EXTERNAL CONNECTION LABEL  
SH 1 of 1