

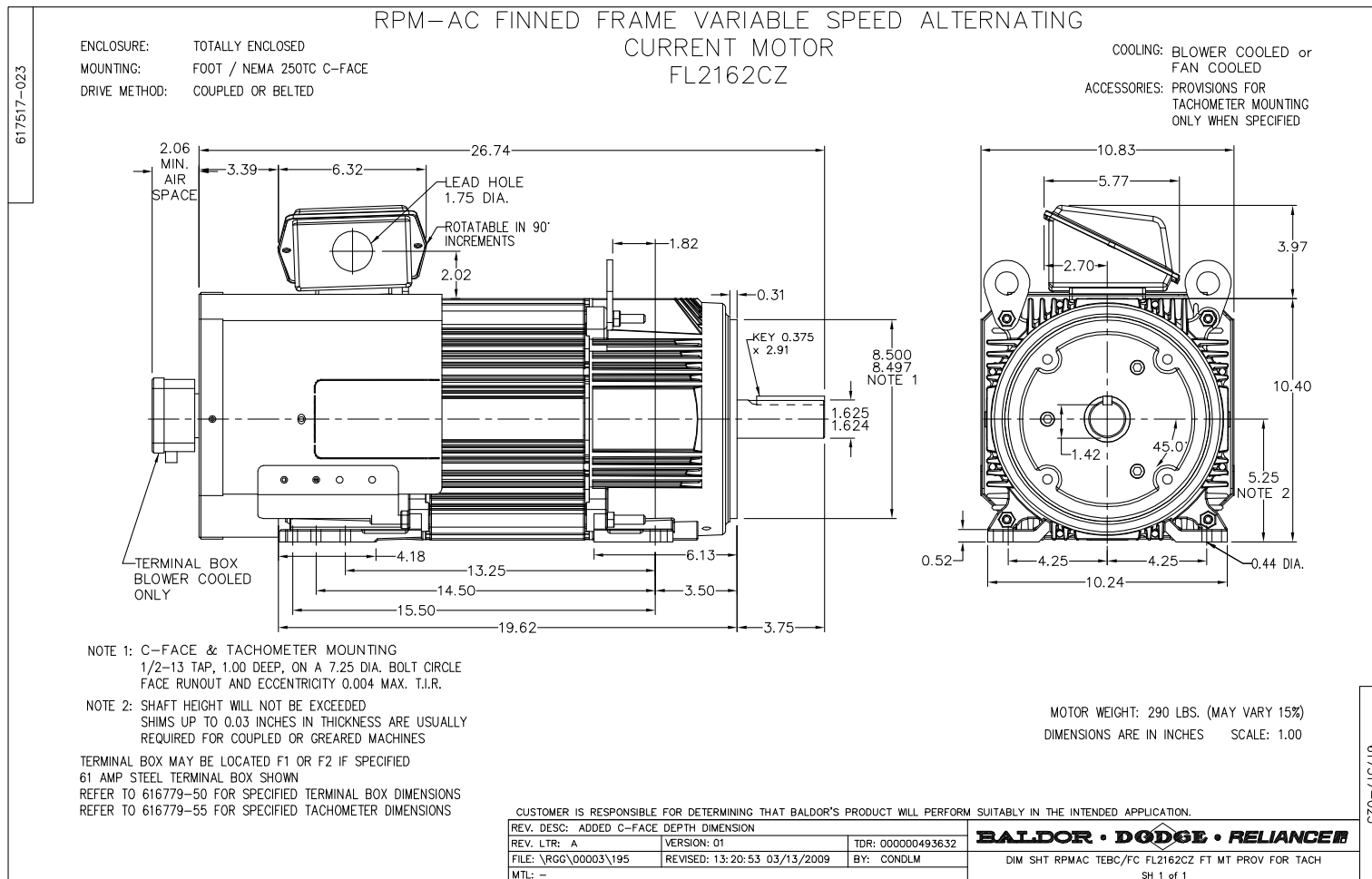
# **BALDOR® • RELIANCE**

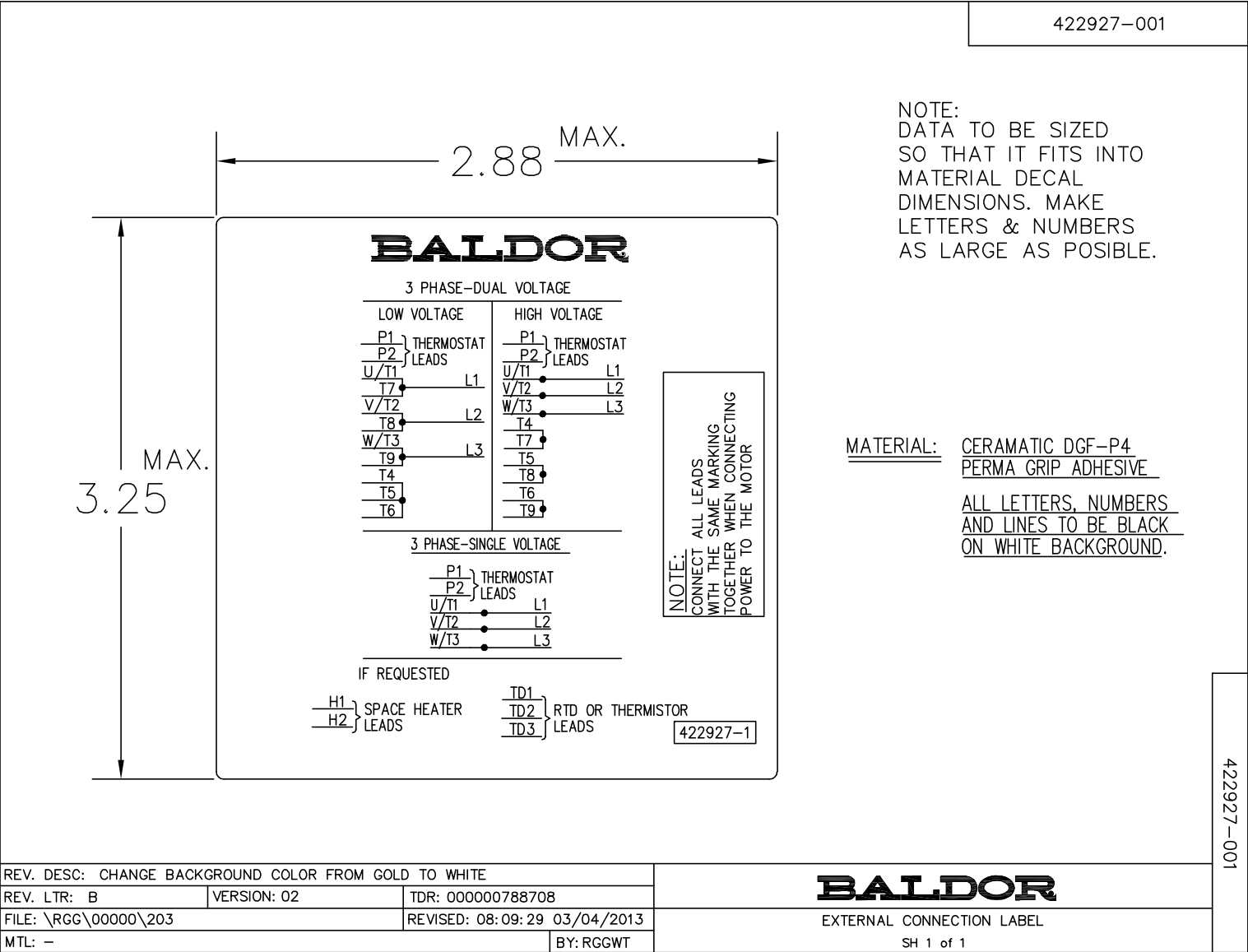
## **Product Information Packet**

### **ZDBRPM21304C**

**30HP, 1750RPM, 3PH, 60HZ, 2162C, TEBC, FOOT**

| Part Detail         |                    |                     |                 |
|---------------------|--------------------|---------------------|-----------------|
| Model Number:       | ZDBRPM21304C       | Environment:        | General Purpose |
| Voltage:            | 460                | Output:             | 30 HP           |
| RPM:                | 1765/3525          | Efficiency:         | NA              |
| Phase:              | 3                  | Frequency:          | N/A             |
| Inverter Duty:      | Y                  | Enclosure:          | TEBC            |
| Frame Group:        | 210                | Frame Size:         | FL2162CZ        |
| Features:           | RPM AC             | Mounting:           | Foot Mounted    |
| Service Factor:     | 1                  | Enclosure Group:    | TEBC            |
| Weight:             | 0                  | Price Symbol:       | E2              |
| Speed Range:        |                    | Insulation Class:   | H               |
| Nema Design:        |                    | Encl. Enhancement:  |                 |
| Catalog Page:       | B-196              | Dimension Sheet:    | 617517-23       |
| Connection Diagram: | 422927-1           | Electric Design:    | L3310A          |
| Single HP:          | 30                 | Get Notes:          | RPM AC          |
| Revision:           |                    | Instruction Manual: |                 |
| Application:        | Variable Speed-V*S | Epact:              |                 |
| Scaled Drawing:     |                    | Obsolete:           | N               |
| Last Data Source:   | RGG,MADD           | Bearing Type:       |                 |
| Electrical Type:    |                    | Mounting Pos.:      |                 |
| Ambient:            | 40                 | Duty:               |                 |
| Amps:               |                    | Nominal Eff.:       |                 |
| Kva Code:           |                    | Power Factor:       |                 |
| Poles:              | 00                 | Literature:         |                 |





|             |        |              |      |              |           |                                |
|-------------|--------|--------------|------|--------------|-----------|--------------------------------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE    | TEBC      | WYE CONN EQ CKT OHMS PER PHASE |
| FRAME       | FL2162 | AMPS         | 40   | MAX SAFE RPM | 5000      | (AT BASE RATING, 25 °C)        |
| HP          | 30     | DUTY         | CONT | IM (AMPS)    | 20        | R1 .157 X1 .701                |
| BASE SPEED  | 1765   | S.F.         | 1.0  | P.F. @NL/FL  | .064/.797 | R2 .102 X2 .791                |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK² (LB-FT²) | 1.92      | XN 13.4                        |

| RATED FULL LOAD DATA |      |      |                 |               |         |      |
|----------------------|------|------|-----------------|---------------|---------|------|
|                      | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
| BASE SPEED           | 1766 | 30.0 | 89              | 460           | 60      | 39.6 |
| MAX SPEED            | 3523 | 30.0 | 45              | 460           | 120     | 37.1 |
| MIN SPEED            | 0    | 0    | 89              | 18.1          | 1.14    | 39.6 |

| LOAD PERFORMANCE AT BASE SPEED |      |      |                 |               |         |      |
|--------------------------------|------|------|-----------------|---------------|---------|------|
|                                | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
| NO LOAD                        | 1800 | 0    | 0               | 460           | 60      | 19.8 |
| 1/4                            | 1792 | 7.52 | 22              | 460           | 60      | 22.1 |
| 1/2                            | 1784 | 15.0 | 44              | 460           | 60      | 26.3 |
| 3/4                            | 1775 | 22.5 | 67              | 460           | 60      | 32.3 |
| FULL LOAD                      | 1766 | 30.0 | 89              | 460           | 60      | 39.6 |
| 0/L                            | 1721 | 58.5 | 178             | 460           | 60      | 75.0 |

|                |       |       |         |         |       |     |
|----------------|-------|-------|---------|---------|-------|-----|
| BLOWER<br>DATA | VOLTS | PH/HZ | FL AMPS | LR AMPS | FRAME | CFM |
|                |       |       |         |         |       |     |

REMARKS: TYPICAL DATA  
CORRELATED DATA

|                                 |  |                        |                                           |
|---------------------------------|--|------------------------|-------------------------------------------|
| <b>BALDOR</b>                   |  | DR. BY <u>B. GRANT</u> | <b>A-C MOTOR<br/>PERFORMANCE<br/>DATA</b> |
| <b>BALDOR • DOUG • RELIANCE</b> |  | CK. BY <u>B. GRANT</u> |                                           |
|                                 |  | APP. BY <u>T. CUFR</u> |                                           |
|                                 |  | DATE <u>6-5-06</u>     | ISSUE DATE <u>6-5-06</u>                  |



