

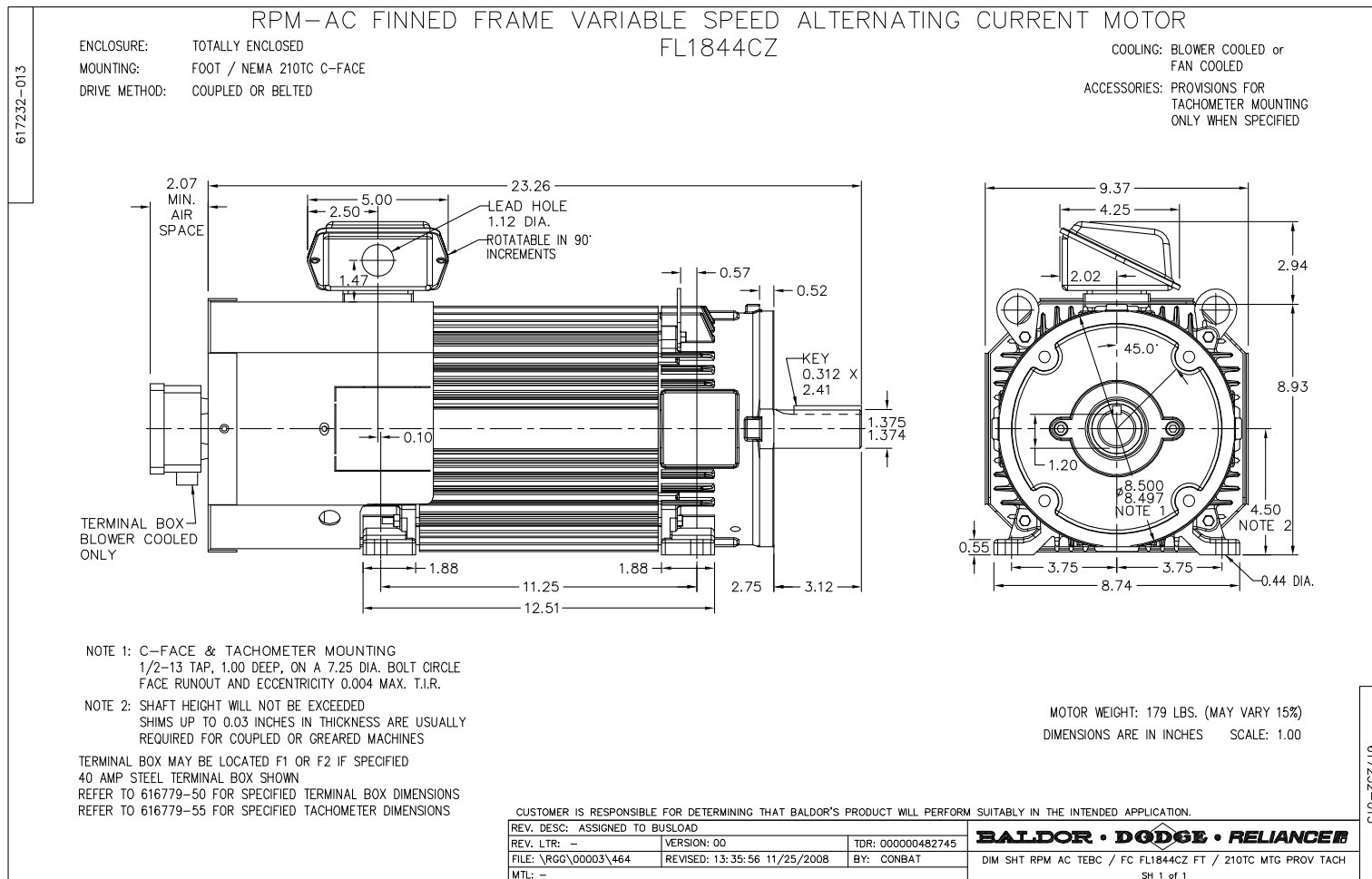
# **BALDOR® • RELIANCE**

## **Product Information Packet**

### **IDFRPM18104C**

**10HP,1765RPM,3PH,60HZ,1844C,TEFC,FT/210**

| Part Detail         |                    |                     |                 |
|---------------------|--------------------|---------------------|-----------------|
| Model Number:       | IDFRPM18104C       | Environment:        | General Purpose |
| Voltage:            | 230/460            | Output:             | 10 HP           |
| RPM:                | 1765/3530          | Efficiency:         | NA              |
| Phase:              | 3                  | Frequency:          | N/A             |
| Inverter Duty:      | Y                  | Enclosure:          | TEFC            |
| Frame Group:        | 180                | Frame Size:         | FL1844CZ        |
| Features:           | RPM AC             | Mounting:           | Foot Mounted    |
| Service Factor:     | 1                  | Enclosure Group:    | TEFC            |
| Weight:             | 0                  | Price Symbol:       | E2              |
| Speed Range:        |                    | Insulation Class:   | H               |
| Nema Design:        |                    | Encl. Enhancement:  |                 |
| Catalog Page:       | B-194              | Dimension Sheet:    | 617232-13       |
| Connection Diagram: | 422927-1           | Electric Design:    | L3219A          |
| Single HP:          | 10                 | 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:         |                 |



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| 422927-001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                               |  |                                                                        |             |             |                   |                      |  |                              |        |  |           |
| <div style="text-align: center; margin-bottom: 10px;"> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin: 0 10px;"></div> <div style="text-align: center;"> <p>2.88 MAX.</p> </div> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin: 0 10px;"></div> <div style="text-align: center;"> <p>3.25 MAX.</p> </div> </div> </div> <div style="text-align: center; margin-bottom: 10px;"> <p><b>BALDOR</b></p> <p>3 PHASE-DUAL VOLTAGE</p> <table style="margin: auto; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div>LOW VOLTAGE</div> <div>HIGH VOLTAGE</div> </div> <div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">P1 } THERMOSTAT<br/>P2 } LEADS</div> </div> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">U/T1 } L1<br/>V/T2 } L2<br/>W/T3 } L3</div> </div> </div></div></td> <td style="text-align: center; padding: 5px;"> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">P1 } THERMOSTAT<br/>P2 } LEADS</div> </div> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">U/T1 } L1<br/>V/T2 } L2<br/>W/T3 } L3</div> </div> </td> </tr> </table> </div> | <div style="display: flex; justify-content: space-between;"> <div>LOW VOLTAGE</div> <div>HIGH VOLTAGE</div> </div> <div style="display: flex; justify-content: space-between;"> <div> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">P1 } THERMOSTAT<br/>P2 } LEADS</div> </div> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">U/T1 } L1<br/>V/T2 } L2<br/>W/T3 } L3</div> </div> </div></div> | <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">P1 } THERMOSTAT<br/>P2 } LEADS</div> </div> <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 20px; margin-right: 5px;"></div> <div style="font-size: 0.8em;">U/T1 } L1<br/>V/T2 } L2<br/>W/T3 } L3</div> </div> | <p>NOTE:<br/>DATA TO BE SIZED<br/>SO THAT IT FITS INTO<br/>MATERIAL DECAL<br/>DIMENSIONS. MAKE<br/>LETTERS &amp; NUMBERS<br/>AS LARGE AS POSSIBLE.</p> <p><u>MATERIAL:</u> CERAMATIC DGF-P4<br/>PERMA GRIP ADHESIVE</p> <p><u>ALL LETTERS, NUMBERS<br/>AND LINES TO BE BLACK<br/>ON WHITE BACKGROUND.</u></p> |  |                                                                        |             |             |                   |                      |  |                              |        |  |           |
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|             |        |              |      |                                       |           |                                                           |
|-------------|--------|--------------|------|---------------------------------------|-----------|-----------------------------------------------------------|
| REL S.O.    | -      | VOLTS        | 460  | ENCLOSURE                             | TEFC      | WYE CONN EQ CKT OHMS PER PHASE<br>(AT BASE RATING, 25 °C) |
| FRAME       | FL1844 | AMPS         | 13.9 | MAX SAFE RPM                          | 7200      |                                                           |
| HP          | 10     | DUTY         | CONT | IM (AMPS)                             | 8         | R1 .439 X1 1.50                                           |
| BASE SPEED  | 1765   | S.F.         | 1.0  | P.F. @NL/FL                           | .063/.768 | R2 .308 X2 1.86                                           |
| PHASE/HERTZ | 3/60   | AMB °C/INSUL | 40/H | WK <sup>2</sup> (LB-FT <sup>2</sup> ) | .645      | X3 33.2                                                   |

| RATED FULL LOAD DATA |      |      |                 |               |         |      |
|----------------------|------|------|-----------------|---------------|---------|------|
|                      | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
| BASE SPEED           | 1766 | 10.0 | 30              | 460           | 60      | 14.1 |
| MAX SPEED            | 3527 | 10.0 | 15              | 460           | 120     | 12.5 |
| MIN SPEED            | 0    | 0    | 30              | 17.6          | 1.14    | 14.1 |

| LOAD PERFORMANCE AT BASE SPEED |      |      |                 |               |         |      |
|--------------------------------|------|------|-----------------|---------------|---------|------|
|                                | RPM  | HP   | TORQUE<br>LB-FT | FUND<br>VOLTS | FREQ-HZ | AMPS |
| NO LOAD                        | 1800 | 0    | 0               | 460           | 60      | 7.89 |
| 1/4                            | 1791 | 2.50 | 7               | 460           | 60      | 8.59 |
| 1/2                            | 1783 | 5.01 | 15              | 460           | 60      | 9.97 |
| 3/4                            | 1775 | 7.50 | 22              | 460           | 60      | 11.8 |
| FULL LOAD                      | 1766 | 10.0 | 30              | 460           | 60      | 14.1 |
| 0/L                            | 1725 | 19.6 | 60              | 460           | 60      | 25.1 |

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

|                                                                                   |         |          |                                                                          |
|-----------------------------------------------------------------------------------|---------|----------|--------------------------------------------------------------------------|
|  | DR. BY  | B. GRANT | <b>A-C MOTOR<br/>PERFORMANCE<br/>DATA</b><br>L3219A<br>ISSUE DATE 3-8-06 |
|                                                                                   | CK. BY  | B. GRANT |                                                                          |
|                                                                                   | APP. BY | T. CUFR  |                                                                          |
|                                                                                   | DATE    | 3-8-06   |                                                                          |

