

|            |            |             |      |                                       |       |                                |        |    |         |
|------------|------------|-------------|------|---------------------------------------|-------|--------------------------------|--------|----|---------|
| REL S.O.   | IDVSM3665T | VOLTS       | 460  | ENCLOSURE                             | TEFC  | WYE CONN EQ CKT OHMS PER PHASE |        |    |         |
| FRAME      | 184TC      | AMPS        | 6.6  | MAX SAFE RPM                          | 4000  | (AT BASE RATING, 25°C)         |        |    |         |
| HP         | 5          | DUTY        | CONT | In (AMPS)                             | 3.2   | R1                             | 1.3080 | X1 | 3.6930  |
| BASE SPEED | 1750       | S.F.        | 1.0  | P.F. @NL/FL                           | 6/79  | R2                             | 1.0000 | X2 | 3.2200  |
| PHASE/HZ   | 3/60       | AMB°C/INSUL | 40/F | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 0.382 |                                |        | XM | 81.0550 |

### Rated Full Load Data


|            | RPM  | HP  | Torque | Volts | Freq-Hz | Amps |
|------------|------|-----|--------|-------|---------|------|
| Base Speed | 1749 | 5.0 | 15.00  | 460   | 60      | 6.63 |
| Max Speed  | 2622 | 5.0 | 10.10  | 460   | 90      | 6.00 |
| Min Speed  | 0    | 0.0 | 15.15  | 36.44 | 1.70    | 6.63 |

### Load Performance at Base Speed

|           | RPM  | HP   | Torque | Volts | Freq-Hz | Amps  |
|-----------|------|------|--------|-------|---------|-------|
| No Load   | 1799 | 0.0  | 0.00   | 460   | 60      | 3.20  |
| 1/4       | 1788 | 1.3  | 3.75   | 460   | 60      | 3.48  |
| 1/2       | 1775 | 2.5  | 7.52   | 460   | 60      | 4.26  |
| 3/4       | 1763 | 3.8  | 11.20  | 460   | 60      | 5.34  |
| Full Load | 1749 | 5.0  | 15.00  | 460   | 60      | 6.63  |
| O/L       | 1679 | 11.0 | 34.50  | 460   | 60      | 14.50 |

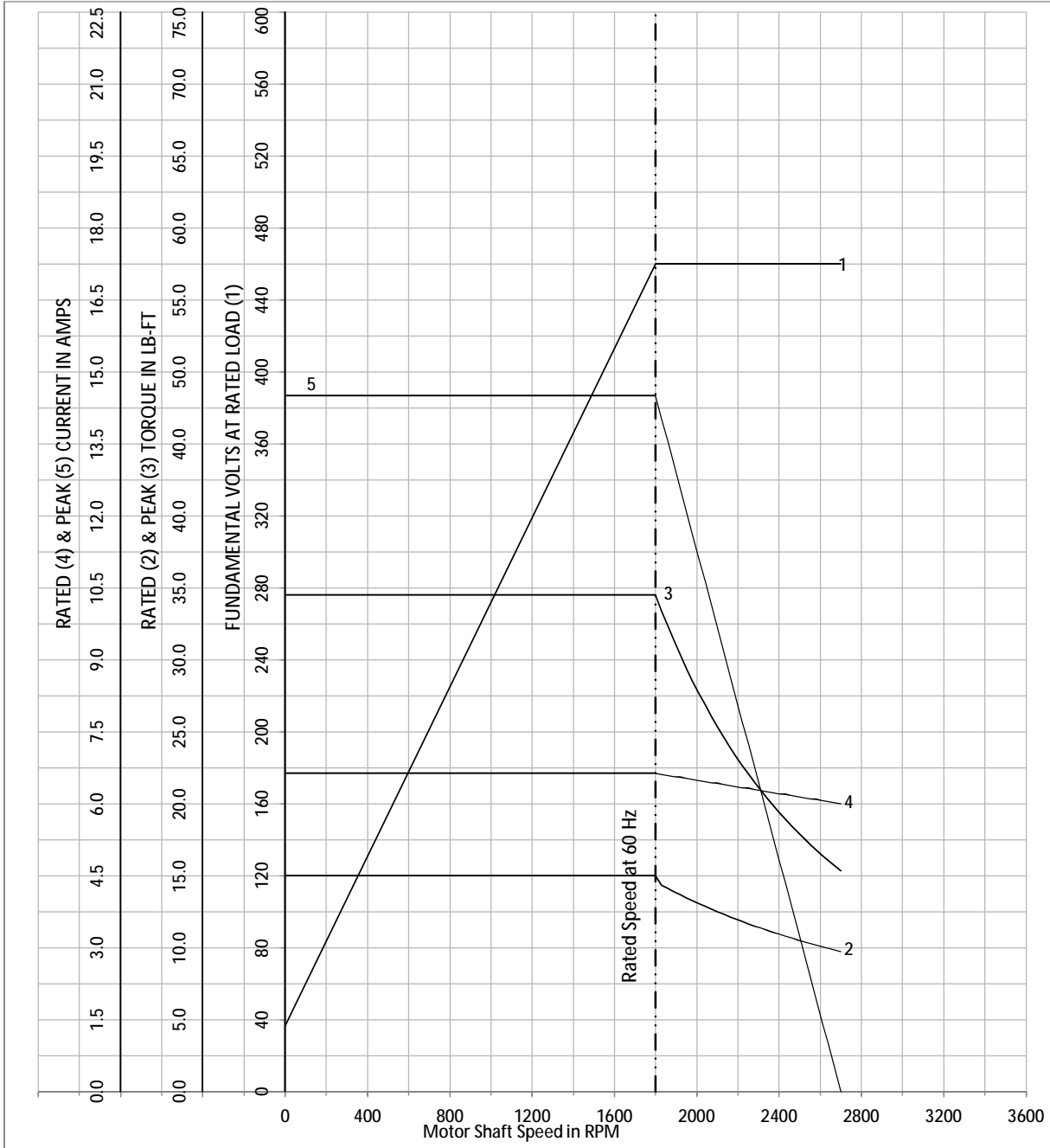
| Blower Data | Volts | Ph/Hz | FL Amps | LR Amps | Frame | CFM |
|-------------|-------|-------|---------|---------|-------|-----|
|             |       |       |         |         |       |     |

Remarks: Calculated Data  
Vector PWM Inverter Duty

|  |  |   |                     |
|--|--|---|---------------------|
| <br>A MEMBER OF THE ABB GROUP | DR BY <u>Micheal Williamson</u>  | <b>A-C MOTOR</b><br><b>PERFORMANCE CURVES</b> | <b>06G938X182Z1</b> |
|  | CK BY <u>Micheal Williamson</u><br>APP BY <u>Micheal Williamson</u><br>DATE <u>8/27/2012</u> |   |                     |

|            |            |                          |      |                                       |       |                                     |        |            |
|------------|------------|--------------------------|------|---------------------------------------|-------|-------------------------------------|--------|------------|
| REL S.O.   | IDVSM3665T | VOLTS                    | 460  | ENCLOSURE                             | TEFC  | WYE CONN EQ CKT OHMS PER PHASE      |        |            |
| FRAME      | 184TC      | AMPS                     | 6.6  | MAX SAFE RPM                          | 4000  | (AT BASE RATING, 25 <sup>0</sup> C) |        |            |
| HP         | 5          | DUTY                     | CONT | In (AMPS)                             | 3.2   | R1                                  | 1.3080 | X1 3.6930  |
| BASE SPEED | 1750       | S.F.                     | 1.00 | P.F. @NL/FL                           | 6/79  | R2                                  | 1.0000 | X2 3.2200  |
| PHASE/HZ   | 3/60       | AMB <sup>0</sup> C/INSUL | 40/F | WK <sup>2</sup> (lb-ft <sup>2</sup> ) | 0.382 |                                     |        | XM 81.0550 |

Vector PWM Inverter Duty  
Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only



DR BY Micheal Williamson  
 CK BY Micheal Williamson  
 APP BY Micheal Williamson  
 DATE 8/27/2012

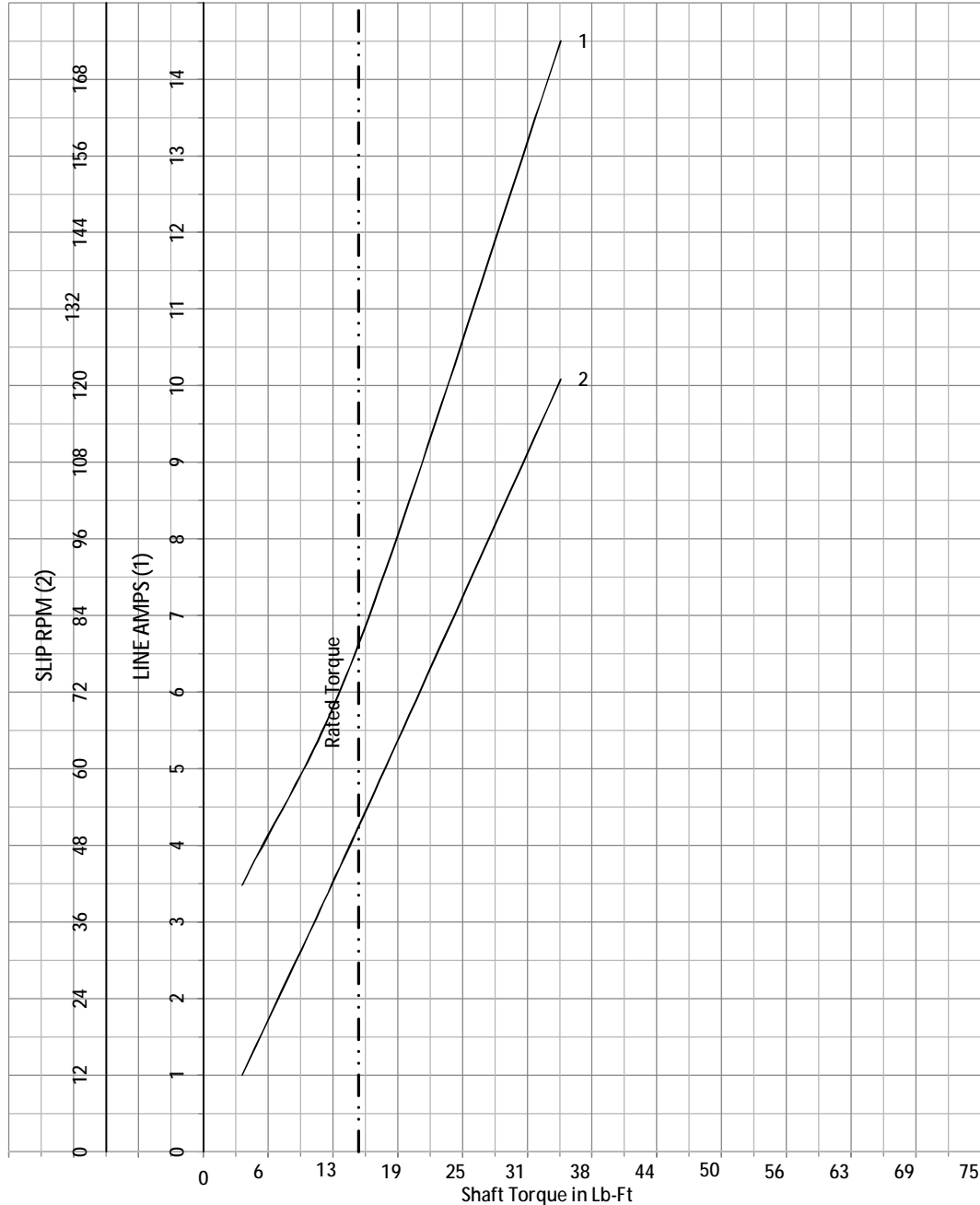
A-C MOTOR PERFORMANCE  
CURVES

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|            |            |                          |      |                                       |       |                                     |        |    |         |
|------------|------------|--------------------------|------|---------------------------------------|-------|-------------------------------------|--------|----|---------|
| REL S.O.   | IDVSM3665T | VOLTS                    | 460  | ENCLOSURE                             | TEFC  | WYE CONN EQ CKT OHMS PER PHASE      |        |    |         |
| FRAME      | 184TC      | AMPS                     | 6.6  | MAX SAFE RPM                          | 4000  | (AT BASE RATING, 25 <sup>0</sup> C) |        |    |         |
| HP         | 5          | DUTY                     | CONT | In (AMPS)                             | 3.2   | R1                                  | 1.3080 | X1 | 3.6930  |
| BASE SPEED | 1750       | S.F.                     | 1.00 | P.F. @NL/FL                           | 6/79  | R2                                  | 1.0000 | X2 | 3.2200  |
| PHASE/HZ   | 3/60       | AMB <sup>0</sup> C/INSUL | 40/F | WK <sup>2</sup> (Lb-Ft <sup>2</sup> ) | 0.382 |                                     |        | XM | 81.0550 |

Vector PWM Inverer Duty  
Variable Speed AC Motor Curves



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