



**TYPICAL MOTOR PERFORMANCE DATA**

Model: Y156XDSB42A-P

|           |     |            |        |       |                |             |          |              |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
| 1.50      | 1.1 | 6          | 1170   | 182TC | 460            | 60          | 3        | 2.5          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 87.5           | B           |          | 40 C         |

|              |      |     |         |                |                  |
|--------------|------|-----|---------|----------------|------------------|
| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
| Full Load    | 1.50 | 1.1 | 2.5     | 87.7           | 65.4             |
| ¾ Load       | 1.13 | 0.8 | 2.1     | 86.0           | 55.7             |
| ½ Load       | 0.75 | 0.6 | 1.9     | 81.8           | 44.1             |
| ¼ Load       | 0.38 | 0.3 | 1.8     | 69.6           | 28.1             |
| No Load      |      |     | 1.5     |                | 7.1              |
| Locked Rotor |      |     | 20      |                | 38.5             |

|                   |                      |                 |                    |                               |
|-------------------|----------------------|-----------------|--------------------|-------------------------------|
| Torque            |                      |                 |                    | Rotor wk <sup>2</sup>         |
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | Inertia (lb-ft <sup>2</sup> ) |
| 6.73              | 245                  | 185             | 420                | 0.43                          |

|                    |     |                           |           |        |                            |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
| Cold               | Hot |                           | DE        | NDE    |                            |
| 53                 | 45  | -                         | 6306C3    | 6306C3 | 112                        |

\*Bearings are the only recommended spare part(s).

**Motor Options:**  
Product Family:EQP Global 841 CFace Footed  
Mounting:C-Face Footed,Shaft:T Shaft

|             |  |
|-------------|--|
| Customer    |  |
| Customer PO |  |
| Sales Order |  |
| Project #   |  |

Tag:

All characteristics are average expected values.

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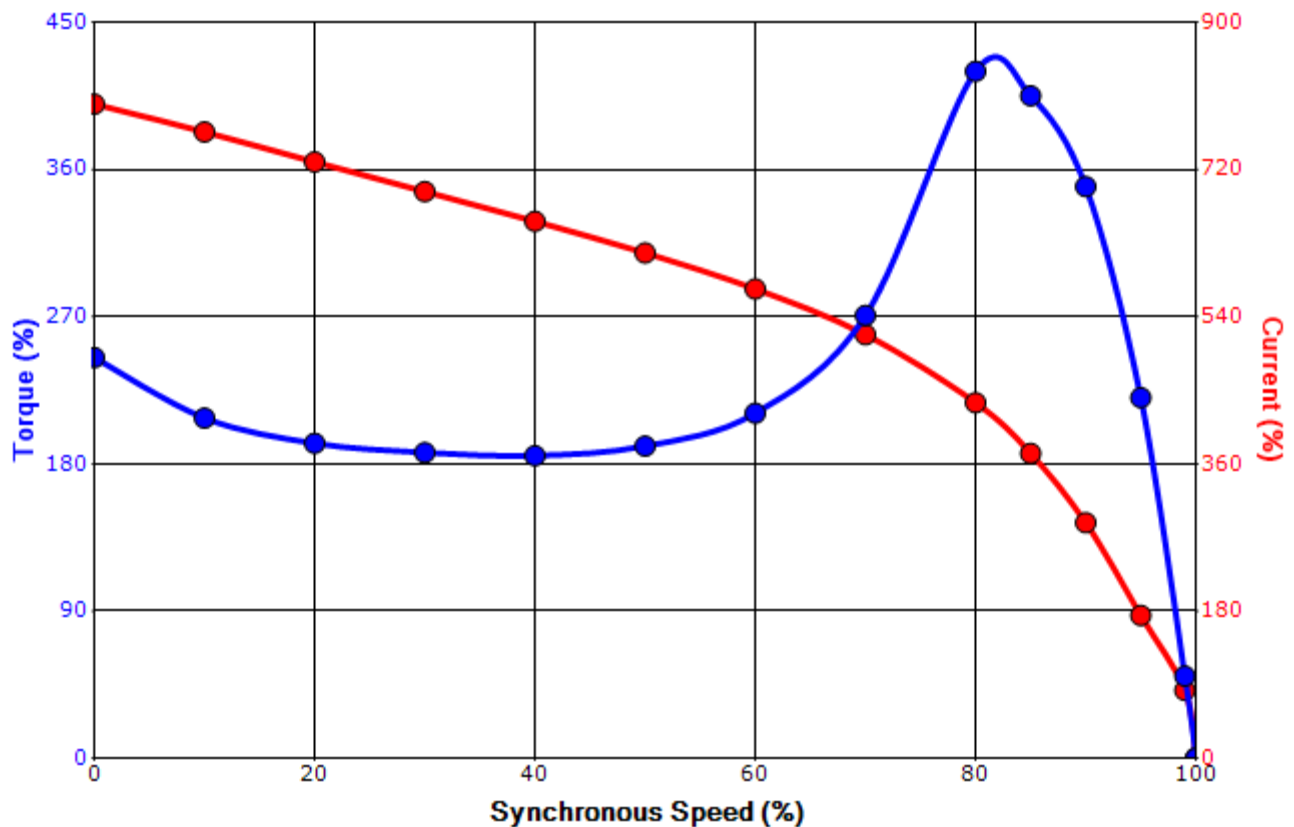
|             |          |                  |             |             |               |
|-------------|----------|------------------|-------------|-------------|---------------|
| Engineering | jaustin  | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 7/7/2014 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

**SPEED TORQUE/CURRENT CURVE**

Model: Y156XDSB42A-P

|                   |   |                   |                  |             |                |             |          |                |
|-------------------|---|-------------------|------------------|-------------|----------------|-------------|----------|----------------|
| HP                | kW  | Pole              | FL RPM           | Frame       | Voltage        | Hz          | Phase    | FL Amps        |
| 1.50              | 1.1   | 6                 | 1170             | 182TC       | 460            | 60          | 3        | 2.5            |
| Enclosure         | IP  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C)   |
| TEFC              | 56  | F                 | 1.15             | CONT        | 87.5           | B           |          | 40 C           |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |             |          | Break Down (%) |
|                   |   | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                |             |          |                |
| 20                | 0.43  | 6.73              | 245              | 185         |                |             | 420      |                |

**Design Values**



|             |  |  |     |
|-------------|--|--|-----|
| Customer    |  | wk <sup>2</sup> Load Inertia (lb-ft <sup>2</sup> ) | -   |
| Customer PO |  | Load Type  | -   |
| Sales Order |  | Voltage (%)  | 100 |
| Project #   |  | Accel. Time  | -   |

Tag:

All characteristics are average expected values.

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|             |          |                  |             |             |               |
|-------------|----------|------------------|-------------|-------------|---------------|
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# Motor Connection Diagram

## 3 Leads - Wye Connection

### Single Voltage



Switch L1 and L2 to reverse rotation

Each lead may consist of more than one cable.  
If multiple cables represent a single lead, each one of them will be labeled with the appropriate lead number.