



## TYPICAL MOTOR PERFORMANCE DATA

Model: Y754XDSC41A-P

| HP        | kW  | Pole       | FL RPM | Frame | Voltage        | Hz          | Phase    | FL Amps      |
|-----------|-----|------------|--------|-------|----------------|-------------|----------|--------------|
| 7.50      | 5.5 | 4          | 1770   | 213T  | 575            | 60          | 3        | 8.2          |
| Enclosure | IP  | Ins. Class | S.F.   | Duty  | NEMA Nom. Eff. | NEMA Design | kVA Code | Ambient (°C) |
| TEFC      | 56  | F          | 1.15   | CONT  | 91.7           | B           |          | 40 C         |

| Load         | HP   | kW  | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|------|-----|---------|----------------|------------------|
| Full Load    | 7.50 | 5.6 | 8.2     | 91.8           | 74.6             |
| ¾ Load       | 5.63 | 4.2 | 6.7     | 90.5           | 68.7             |
| ½ Load       | 3.75 | 2.8 | 5.4     | 87.5           | 58.4             |
| ¼ Load       | 1.88 | 1.4 | 3.7     | 80.5           | 46.6             |
| No Load      |      |     | 4.5     |                | 5.0              |
| Locked Rotor |      |     | 50      |                | 40.2             |

| Torque            |                      |                 |                    | Rotor wk² Inertia (lb-ft²) |
|-------------------|----------------------|-----------------|--------------------|----------------------------|
| Full Load (lb-ft) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) |                            |
| 22.3              | 260                  | 200             | 315                | 1.15                       |

| Safe Stall Time(s) |     | Sound Pressure dB(A) @ 1M | Bearings* |        | Approx. Motor Weight (lbs) |
|--------------------|-----|---------------------------|-----------|--------|----------------------------|
| Cold               | Hot |                           | DE        | NDE    |                            |
| 35                 | 15  | -                         | 6308C3    | 6308C3 | 188                        |

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

**Motor Options:**  
Product Family:EQP Global 841  
Mounting:Footed,Shaft:T Shaft

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

Tag:

All characteristics are average expected values.

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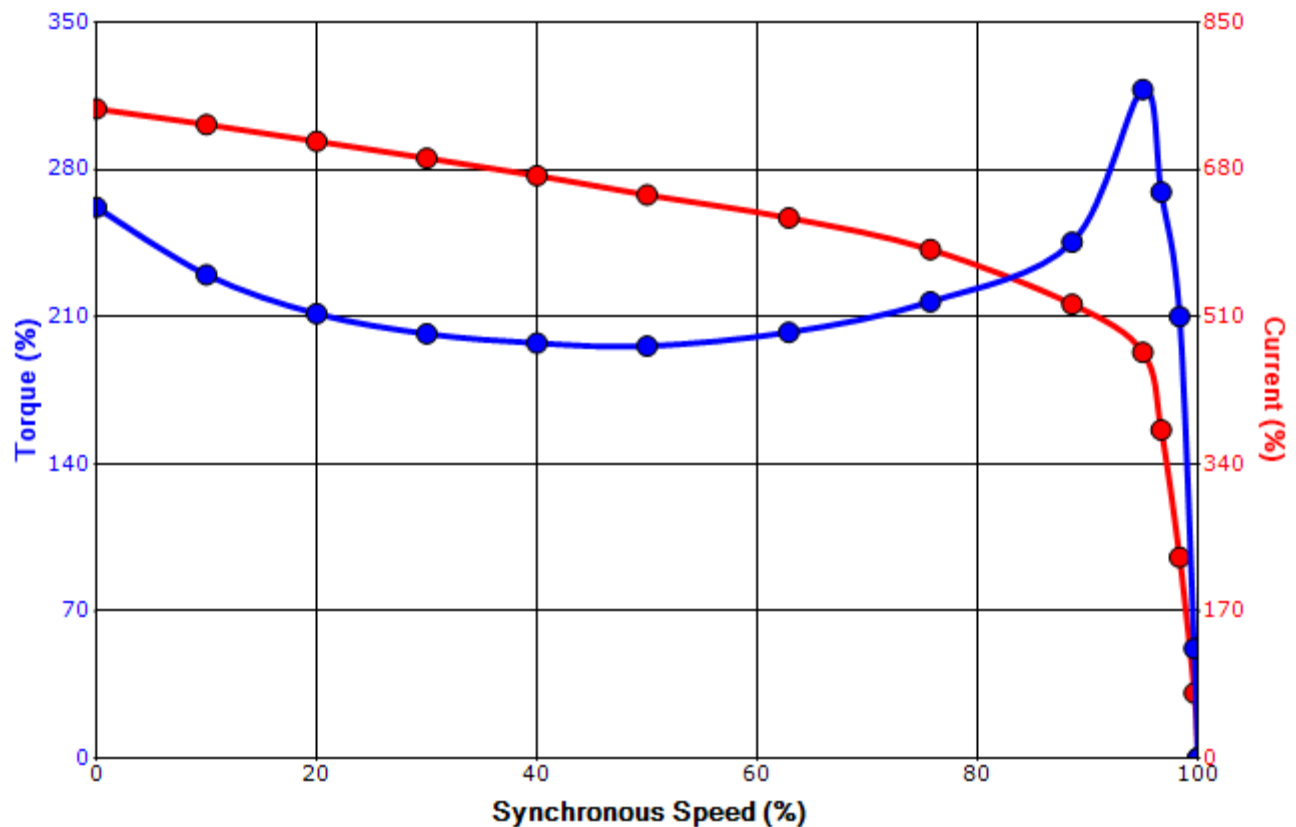
|             |           |                  |             |             |               |
|-------------|-----------|------------------|-------------|-------------|---------------|
| Engineering | bammen    | Doc. Written By  | D. Suarez   | Doc.# / Rev | MPCF-1119 / 0 |
| Engr. Date  | 7/24/2024 | Doc. Approved By | M. Campbell | Doc. Issued | 6/8/2011      |

## SPEED TORQUE/CURRENT CURVE

Model: Y754XDSC41A-P

| HP                | kW                                                  | Pole              | FL RPM           | Frame       | Voltage        | Hz             | Phase    | FL Amps      |
|-------------------|-----------------------------------------------------|-------------------|------------------|-------------|----------------|----------------|----------|--------------|
| 7.50              | 5.5                                                 | 4                 | 1770             | 213T        | 575            | 60             | 3        | 8.2          |
| Enclosure         | IP                                                  | Ins. Class        | S.F.             | Duty        | NEMA Nom. Eff. | NEMA Design    | kVA Code | Ambient (°C) |
| TEFC              | 56                                                  | F                 | 1.15             | CONT        | 91.7           | B              |          | 40 C         |
| Locked Rotor Amps | Rotor wk <sup>2</sup> Inertia (lb-ft <sup>2</sup> ) | Torque            |                  |             |                |                |          |              |
|                   |                                                     | Full Load (lb-ft) | Locked Rotor (%) | Pull Up (%) |                | Break Down (%) |          |              |
| 50                | 1.15                                                | 22.3              | 260              | 200         |                | 315            |          |              |

### 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:

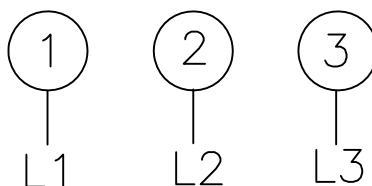
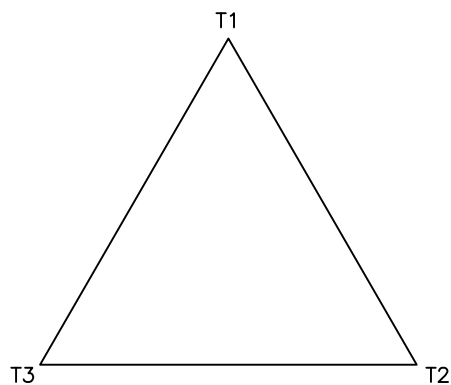
All characteristics are average expected values.

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

#### 3 Leads - Delta Connection



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.