



### TYPICAL MOTOR PERFORMANCE DATA

Model: MEGP00156D2TBL

Serie: IEC Graphene

|             |            |            |        |
|-------------|------------|------------|--------|
| Issued Date | 11/14/2022 | Doc. #     | 382-R0 |
| Issued By   | LD         | Issued Rev | 0      |

| HP        | kW | Pole       | FL RPM | Frame | Voltage     | Hz         | Phase    | FL Amps            |
|-----------|----|------------|--------|-------|-------------|------------|----------|--------------------|
| 20        | 15 | 6          | 1164   | 180L  | 230/380/460 | 60         | 3        | 53.2/30.8/26.6     |
| Enclosure | IP | Ins. Class | S.F.   | Duty  | Nom. Eff.   | IEC Design | kVA Code | Ambient Temp. (°C) |
| TEFC      | 55 | F (*)      | 1.15   | S1    | IE2-90.2    | N          | -        | 40                 |

\* Inverter Duty

| Load         | HP | kW    | Amperes | Efficiency (%) | Power Factor (%) |
|--------------|----|-------|---------|----------------|------------------|
| Full Load    | 20 | 15    | 25.0    | 92.0           | 85.7             |
| ¾ Load       | 15 | 11.25 | 19.4    | 92.2           | 82.6             |
| ½ Load       | 10 | 7.5   | 14.4    | 91.6           | 74.6             |
| ¼ Load       | 5  | 3.75  | 10.4    | 88.2           | 53.4             |
| No Load      |    |       | 9.0     |                | 28.2             |
| Locked Rotor |    |       | 139.2   |                | 0.3              |

| Torque          |                      |                 |                    | Rotor Inertia |
|-----------------|----------------------|-----------------|--------------------|---------------|
| Full Load (N-m) | Locked Rotor (% FLT) | Pull Up (% FLT) | Break Down (% FLT) | (Kg-m²)       |
| 123             | 202.4                | 183.4           | 236.8              | 0.26852       |

| Safe Stall Time(s)<br>Cold / Hot | Sound Pressure<br>dB(A) @ 1M | Bearings*  |            | Approx. Motor Weight<br>(kg) |
|----------------------------------|------------------------------|------------|------------|------------------------------|
|                                  |                              | DE         | NDE        |                              |
| 62.6/25.5                        | -                            | 6310/2Z C3 | 6308/2Z C3 | 175                          |

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

**Included Accessories:**

PTC Thermistor

All characteristics are average expected values.

|             |  |                  |  |             |                |
|-------------|--|------------------|--|-------------|----------------|
| Engineering |  | Doc. Written By  |  | Doc.# / Rev | MEGP00156D2TBL |
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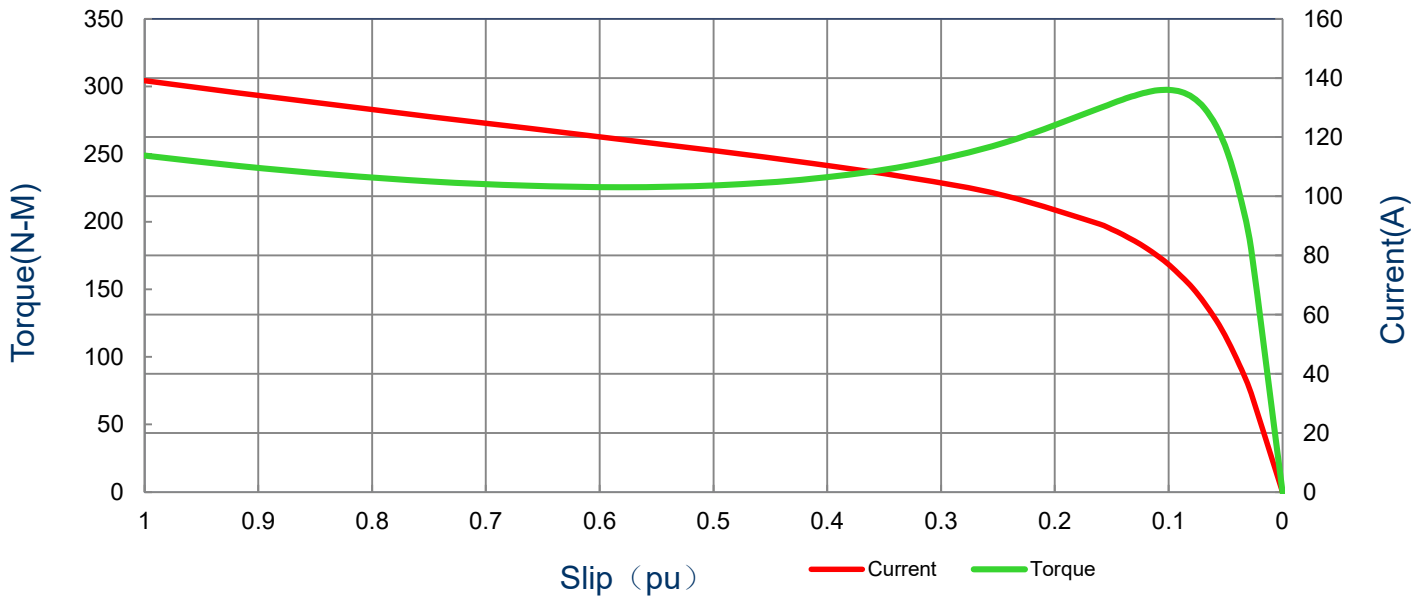
### SPEED TORQUE/CURRENT CURVE

Model: MEGP00156D2TBL

Serie: IEC Graphene

|                   |                       |                 |                  |       |             |             |                |                    |
|-------------------|-----------------------|-----------------|------------------|-------|-------------|-------------|----------------|--------------------|
| HP                | kW                    | Pole            | FL RPM           | Frame | Voltage     | Hz          | Phase          | FL Amps            |
| 20                | 15                    | 6               | 1164             | 180L  | 230/380/460 | 60          | 3              | 53.2/30.8/26.6     |
| Enclosure         | IP                    | Ins. Class      | S.F.             | Duty  | Nom. Eff.   | IEC Design  | kVA Code       | Ambient Temp. (°C) |
| TEFC              | 55                    | F (*)           | 1.15             | S1    | IE2-90.2    | N           | -              | 40                 |
| Locked Rotor Amps | Rotor Inertia (Kg-m2) | Torque          |                  |       |             | Pull Up (%) | Break Down (%) |                    |
|                   |                       | Full Load (N-m) | Locked Rotor (%) |       |             |             |                |                    |
| 139.2             | 0.26852               | 123             | 202.4            |       | 183.4       | 236.8       |                |                    |

Current vs Slip Curve and Torque vs Slip Curve



All characteristics are average expected values.

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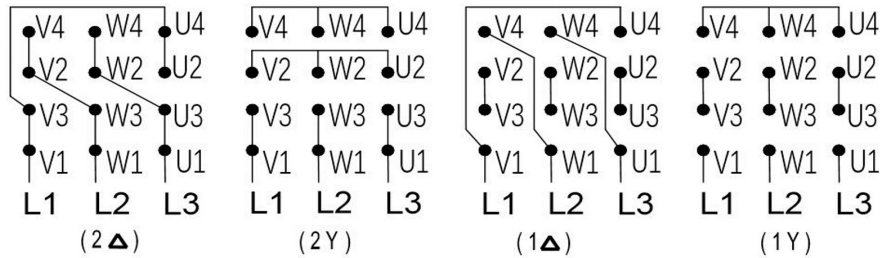
## Motor Connection Diagram

Model: MEGP00156D2TBL

Serie: IEC Graphene

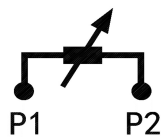
| HP        | kW | Pole       | FL RPM | Frame | Voltage     | Hz         | Phase    | FL Amps            |
|-----------|----|------------|--------|-------|-------------|------------|----------|--------------------|
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| Enclosure | IP | Ins. Class | S.F.   | Duty  | Nom. Eff.   | IEC Design | kVA Code | Ambient Temp. (°C) |
| TEFC      | 55 | F (*)      | 1.15   | S1    | IE2-90.2    | N          | -        | 40                 |

### 12 Leads Connection Diagram



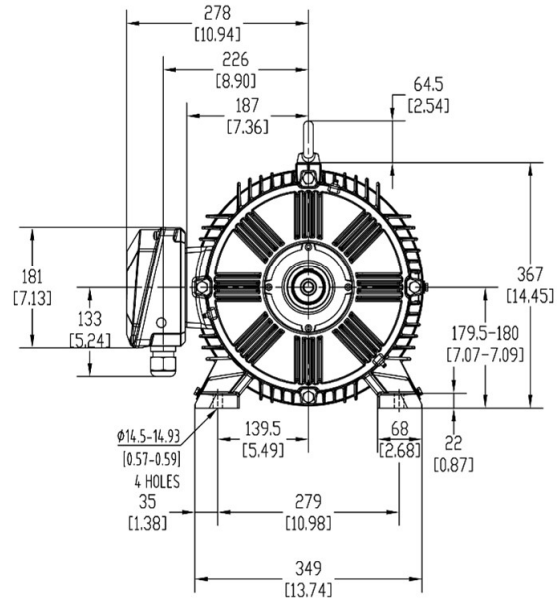
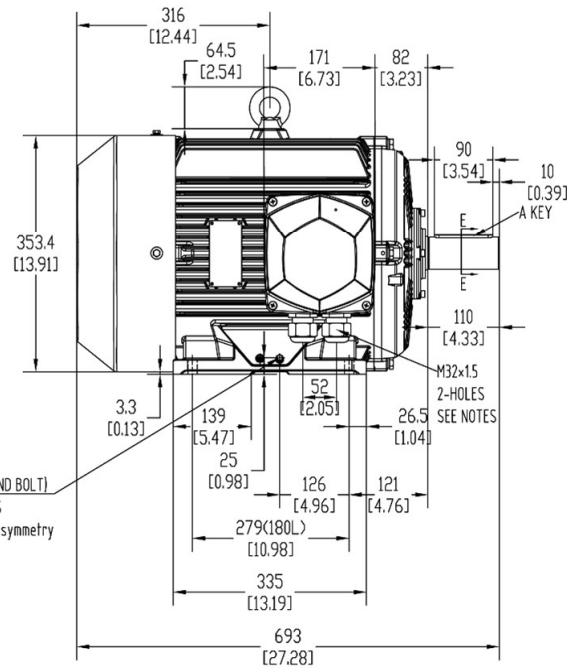
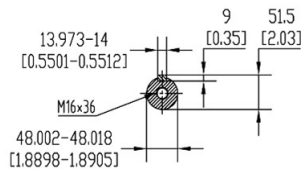
### Y- Only Start

### PTC Diagram



All characteristics are average expected values.

|             |  |                  |  |             |                |
|-------------|--|------------------|--|-------------|----------------|
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|  |           |  |  |  |                   |                    |                       |                |  |             |
|--|-----------|--|--|--|-------------------|--------------------|-----------------------|----------------|--|-------------|
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| <b>ROTATION FROM DE</b>  |           |  |  | 1. MAIN CONDUIT BOX MAY BE ROTATED IN 90 DEGREE INCREMENTS     |                   |                    |                       |                |  |             |
| <b>CCW</b>   | <b>CW</b> |  |  | 2. STANDARD PRODUCT USES BI-DIRECTIONAL FAN. OPPOSITE ROTATION |                   |                    |                       |                |  |             |
|  |           |  |  | AVAILABLE ONLY BY CONNECTION CHANGE.                           |                   |                    |                       |                |  |             |
|  | <b>X</b>  | TASHIDA RESERVES THE RIGHT TO MAKE CHANGES OF TECHNICAL IMPROVEMENT AND THE DATA MAY CHANGE WITHOUT NOTICE   |  |  |                   | <b>PRELIMINARY</b> |                       |                |  |             |
| DO NOT USE FOR CONSTRUCTION, INSTALLATION, OR APPLICATION PURPOSES UNLESS THE DRAWING IS MARKED AS CERTIFIED |           |  |  |  | <b>X</b>          | <b>CERTIFIED</b>   |                       |                |  |             |
| <h1>Tashida</h1>   |           | <b>TOTALLY ENCLOSED FAN COOLED<br/>HORIZONTAL FOOT MOUNTED<br/>3 PHASE INDUCTION MOTOR</b>   |  |  | <b>Drawing #:</b> |                    | <b>MEGP00156D2TBL</b> |                |  |             |
|  |           |  |  |  | <b>Rev. Date:</b> |                    | <b>11/14/2022</b>     | <b>Rev. #:</b> |  | <b>0</b>    |
|  |           |  |  |  | <b>Standard:</b>  |                    | <b>IEC-60034</b>      | <b>Mount.:</b> |  | <b>IMB3</b> |
|  |           |  |  |  | <b>Frame</b>      | <b>180L</b>        | <b>LHS</b>            | <b>Per.:</b>   |  | <b>LD</b>   |