

# DATA SHEET

Premium Efficiency Motor: **PEWWE50-12-365TC**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

## MOTOR INFORMATION

|                         |                                        |
|-------------------------|----------------------------------------|
| HP                      | 50                                     |
| RPM                     | 1200                                   |
| Phase                   | 3                                      |
| Frequency               | 60 Hz                                  |
| Voltage                 | 230/460 V                              |
| Frame Size              | 365TC                                  |
| Enclosure               | TEFC                                   |
| Degree of Protection    | IP55                                   |
| Service Factor          | 1.25                                   |
| Poles                   | 6                                      |
| Full Load Speed         | 1185                                   |
| Insulation Class        | F                                      |
| Temp Rise               | 80°C                                   |
| NEMA Code Letter        | G                                      |
| Duty Cycle              | S1 / Continuous                        |
| Slip                    | 1.25%                                  |
| NEMA Design             | B                                      |
| Moment of Inertia       | 24.1 lb.ft.^2                          |
| Locked Rotor Time (Hot) | 13 seconds                             |
| Sound Pressure Level    | 71 dB(A)                               |
| Number of Starts        | 2 Cold/ 1 Hot                          |
| Max Ambient Temperature | 40°C                                   |
| Max Elevation           | 1000 m.a.s.l (3300 f.a.s.l)            |
| Mounting                | F1                                     |
| Rotation                | Bi-Directional                         |
| Area of Classification  | Class I, Division 2, Groups A, B, C, D |
| Inverter Rating         | 10:1 CT / 20:1 VT PWM Type             |
| Standard                | NEMA MG-1                              |
| Approvals               | CSA-US, CE                             |

## EFFICIENCY/POWER FACTOR

| LOAD | EFF    | P. F. |
|------|--------|-------|
| 100% | 94.1 % | 0.82  |
| 75%  | 94.3 % | 0.78  |
| 50%  | 93.6 % | 0.68  |

## TORQUE

| FULL LOAD  | LRT   | BDT   |
|------------|-------|-------|
| 222 lb.ft. | 210 % | 250 % |

## AMPERAGE INFORMATION

|                   | 230V | 460V   |
|-------------------|------|--------|
| Full Load Amps    | 121A | 60.7A  |
| Locked Rotor Amps | 725A | 362.5A |
| No Load Current   | 49A  | 24.5A  |
| Usable at 208V    | 134A |        |

## BEARING INFORMATION

|                         |            |
|-------------------------|------------|
| DE Bearing              | 6313 C3    |
| ODE Bearing             | 6312 C3    |
| Grease Type             | SKF LGHP 2 |
| DE Regreasing Interval  | 4500 Hours |
| ODE Regreasing Interval | 6000 Hours |

## ADDITIONAL DATA

|                    |                         |
|--------------------|-------------------------|
| F2 Suitable        | Yes                     |
| Shaft Material     | 1045 Carbon Steel       |
| Connection Diagram | 230 / 460 V - 12 Lead Δ |
| Approximate Weight | 844 lbs.                |

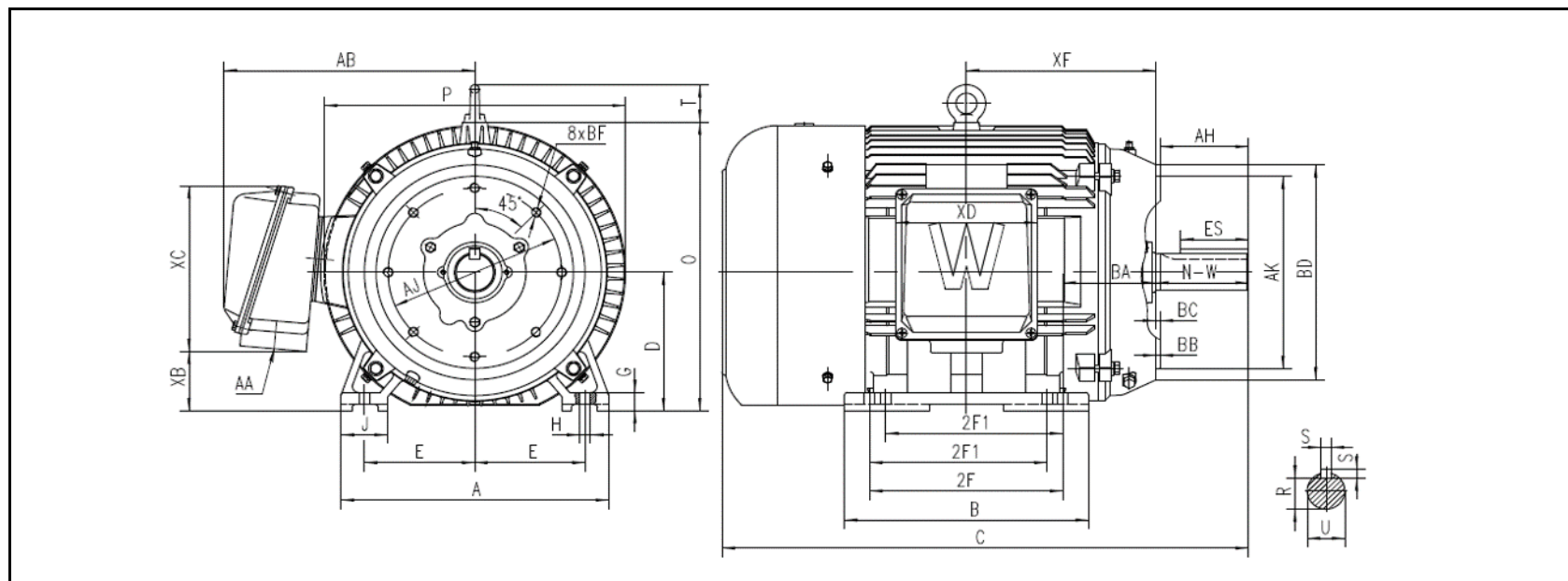
# MOTOR DRAWING

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## DIMENSION - INCHES

| MOUNTING |       |       |      |      | A      | B      | C     | D | G     | J     | P      | O    | T     | AB     |
|----------|-------|-------|------|------|--------|--------|-------|---|-------|-------|--------|------|-------|--------|
| E        | 2F1   | 2F    | H    | BA   |        |        |       |   |       |       |        |      |       |        |
| 7        | 11.25 | 12.25 | 0.66 | 5.88 | 16.969 | 15.472 | 33.36 | 9 | 1.181 | 2.953 | 19.091 | 18.8 | 2.441 | 15.899 |

| SHAFT & KEY |      |       |      |      |       |
|-------------|------|-------|------|------|-------|
| S           | ES   | R     | N-W  | AH   | U     |
| 0.625       | 4.28 | 2.021 | 5.88 | 5.62 | 2.375 |

| TERMINAL BOX |       |        |       |        |
|--------------|-------|--------|-------|--------|
| AA           | XB    | XC     | XD    | XF     |
| 3            | 3.849 | 10.783 | 8.976 | 11.988 |

| FLANGE |      |      |        |        |      |
|--------|------|------|--------|--------|------|
| AJ     | AK   | BB   | BD     | BF     | BC   |
| 11     | 12.5 | 0.25 | 13.989 | 5/8-11 | 0.25 |

# PERFORMANCE CURVES

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Premium Efficiency Motor:

**PEWWE50-12-365TC**

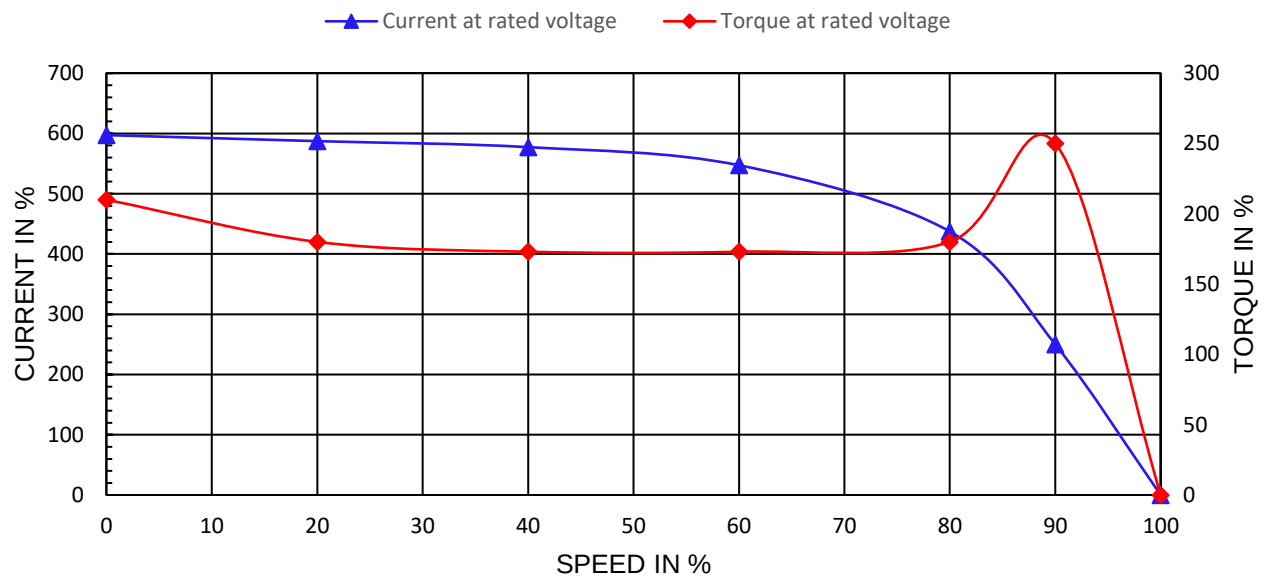
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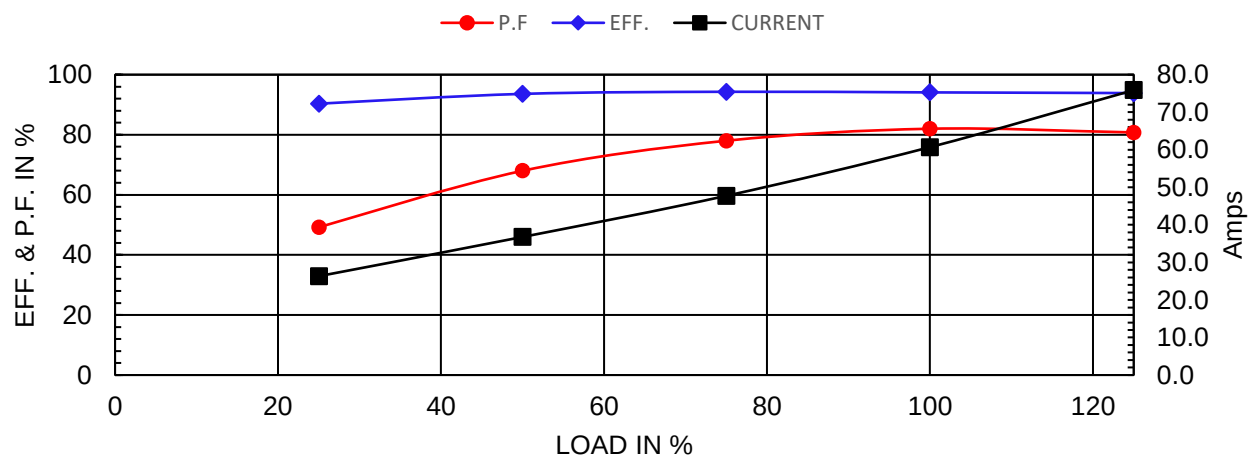
Customer:

|                    |              |  |            |      |                   |
|--------------------|--------------|--|------------|------|-------------------|
| Motor Type         | PEWWE        |  |            |      |                   |
| Output Rating (HP) | 50           |  | FL Speed   | 1185 |                   |
| Full Load Torque   | 222 lb.ft    |  | LRT (%FLT) | 210  | 460 volt FLA 60.7 |
| Rotor Wk^2         | 24.1 lb-ft^2 |  | BDT (%FLT) | 250  | 230 volt FLA 121  |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F. & CURRENT CURVE



# NAMEPLATE / WIRING

Premium Efficiency Motor:

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## SAMPLE NAMEPLATE DATA

|                                       |      |                                               |        |                                |         |         |         |           |
|---------------------------------------|------|-----------------------------------------------|--------|--------------------------------|---------|---------|---------|-----------|
|                                       |      | <b>NEMA Premium</b>                           |        | <b>3-PHASE INDUCTION MOTOR</b> |         | 259277  |         | <b>CE</b> |
| Model                                 |      | Ser No.                                       |        |                                |         |         |         |           |
| HP                                    | S.F. | IP                                            | Encl   |                                |         |         |         |           |
| Frame                                 | P.F. | Code                                          | Type   |                                |         |         |         |           |
| Voltage                               | Hz   | Ins Cl                                        | Rating | °C Amb Cont                    |         |         |         |           |
| Amps                                  | RPM  | Design                                        | Date   |                                |         |         |         |           |
| Nom.Eff.                              |      | FL                                            | % 3/4  | % 230/460 V                    | 10:1 CT | 20:1 VT | PWM VFD | 1.0SF     |
| Class I DIV. 2 Groups A B C D         |      | Amb.40°C                                      |        |                                |         |         |         |           |
| Class I Zone 2 II C                   |      | Amb.55°C                                      |        |                                |         |         |         |           |
|                                       |      | DE Brng                                       |        |                                |         |         |         |           |
|                                       |      | ODE Brng                                      |        |                                |         |         |         |           |
|                                       |      | Grease type: LGHP 2 (compatible with polyrex) |        |                                |         |         |         |           |
| 50Hz                                  |      | HP                                            | V      | A                              | rpm     | 1.0SF   |         |           |
| <b>WorldWide Electric Corporation</b> |      |                                               |        |                                |         |         |         |           |

|          |                  |       |           |          |      |              |            |  |
|----------|------------------|-------|-----------|----------|------|--------------|------------|--|
| Model    | PEWWE50-12-365TC |       |           |          |      |              |            |  |
| HP       | 50               | S.F.  | 1.25      | IP       | IP55 | Encl         | TEFC       |  |
| Frame    | 365TC            | P.F.  | 0.82      | Code     | G    | Type         |            |  |
| Voltage  | 230/460 V        | Hz    | 60 Hz     | Ins Cl   | F    | Ambient      | 40°C       |  |
| Amps     | 121/60.7         | RPM   | 1185      | Design   | B    | DE Brng      | 6313 C3    |  |
| Nom.Eff. | FL               | 94.1% | 3/4       | 94.3%    |      | ODE Brng     | 6312 C3    |  |
|          |                  |       |           |          |      | Grease type: | SKF LGHP 2 |  |
| 50Hz     |                  | 50 HP | 200/400 V | 142/71.2 | A    | 985 rpm      |            |  |