

# DATA SHEET

Premium Efficiency Motor: **IEC4-18-100-FF,**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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## MOTOR INFORMATION

|                         |                             |
|-------------------------|-----------------------------|
| HP                      | 4                           |
| RPM                     | 1800                        |
| Phase                   | 3                           |
| Frequency               | 60                          |
| Voltage                 | 230/460                     |
| Frame Size              | 100L                        |
| Enclosure               | TEFC                        |
| Degree of Protection    | IP55                        |
| Service Factor          | 1.15                        |
| Poles                   | 4                           |
| Full Load Speed         | 1754                        |
| Insulation Class        | F                           |
| Temp Rise               | 80°C                        |
| NEMA Code Letter        | M                           |
| Duty Cycle              | S1                          |
| Slip                    | 2.57%                       |
| IEC Design              | N                           |
| Moment of Inertia       | 0.164 lb.ft.^2              |
| Locked Rotor Time (Hot) | 12 seconds                  |
| Sound Pressure Level    | 88 dB(A)                    |
| Number of Starts        | 2 Hot / 3 Cold              |
| Max Ambient Temperature | 40° C                       |
| Max Elevation           | 1000 m.a.s.l (3300 f.a.s.l) |
| Mounting                | B35 - FF Flange with Feet   |
| Rotation                | Bidirectional               |
| Area of Classification  | Safe                        |
| Inverter Rating         | 10:1 CT/20:1 VT             |
| Standard                | IEC 60034 and IEC 60072     |
| Approvals               | UL, CE                      |

## EFFICIENCY/POWER FACTOR

| LOAD | EFF    | P. F. |
|------|--------|-------|
| 100% | 89.5 % | 0.75  |
| 75%  | 89.5 % | 0.66  |
| 50%  | 87.7 % | 0.52  |

## TORQUE

| FULL LOAD    | LRT   | BDT   |
|--------------|-------|-------|
| 16.33 lb.ft. | 376 % | 399 % |

## AMPERAGE INFORMATION

|                   | 230V   | 460V  |
|-------------------|--------|-------|
| Full Load Amps    | 11.28  | 5.64  |
| Locked Rotor Amps | 101.54 | 50.77 |
| No Load Current   | 7.02   | 3.51  |

## BEARING INFORMATION

|             |         |
|-------------|---------|
| DE Bearing  | 6206 ZZ |
| ODE Bearing | 6305 ZZ |
| Grease Type | NS7     |

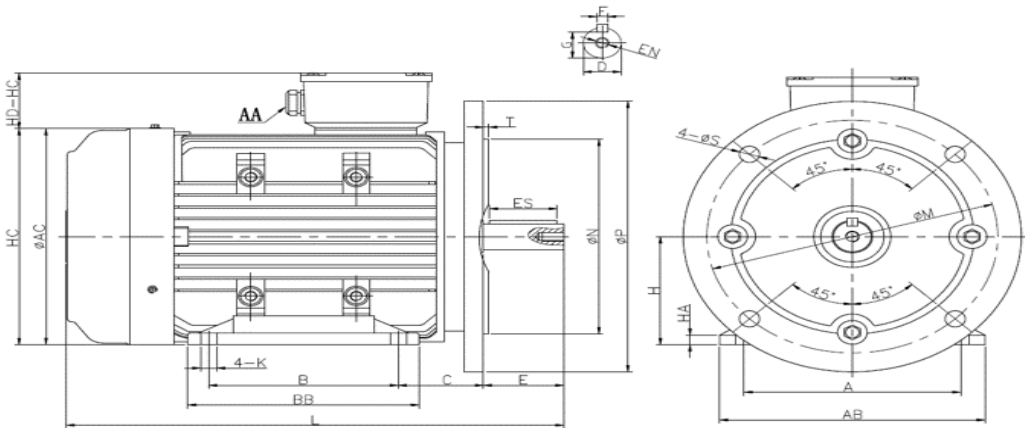
## ADDITIONAL DATA

|                    |              |
|--------------------|--------------|
| Multi-Mount        | Yes          |
| Shaft Material     | AISI 1040/45 |
| Connection Diagram | 9 Lead Wye   |
| Approximate Weight | 27 kg        |

# MOTOR DRAWING

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## DIMENSION - METRIC (mm)

| MOUNTING |     |    |    | AB  | BB  | L   | H   | HA | AC  | HC  |
|----------|-----|----|----|-----|-----|-----|-----|----|-----|-----|
| A        | B   | C  | K  |     |     |     |     |    |     |     |
| 160      | 140 | 63 | 12 | 198 | 171 | 416 | 100 | 11 | 196 | 198 |

| SHAFT & KEY |    |    |    |    |          |
|-------------|----|----|----|----|----------|
| F           | ES | G  | E  | D  | EN       |
| 8           | 50 | 24 | 60 | 28 | M10*20mm |

| TERMINAL BOX |       |
|--------------|-------|
| AA           | HD-HC |
| M20          | 52    |

| FLANGE |     |   |     |          |
|--------|-----|---|-----|----------|
| N      | P   | T | M   | S        |
| 180    | 250 | 4 | 215 | 4*14.5mm |

# PERFORMANCE CURVES

Premium Efficiency Motor:

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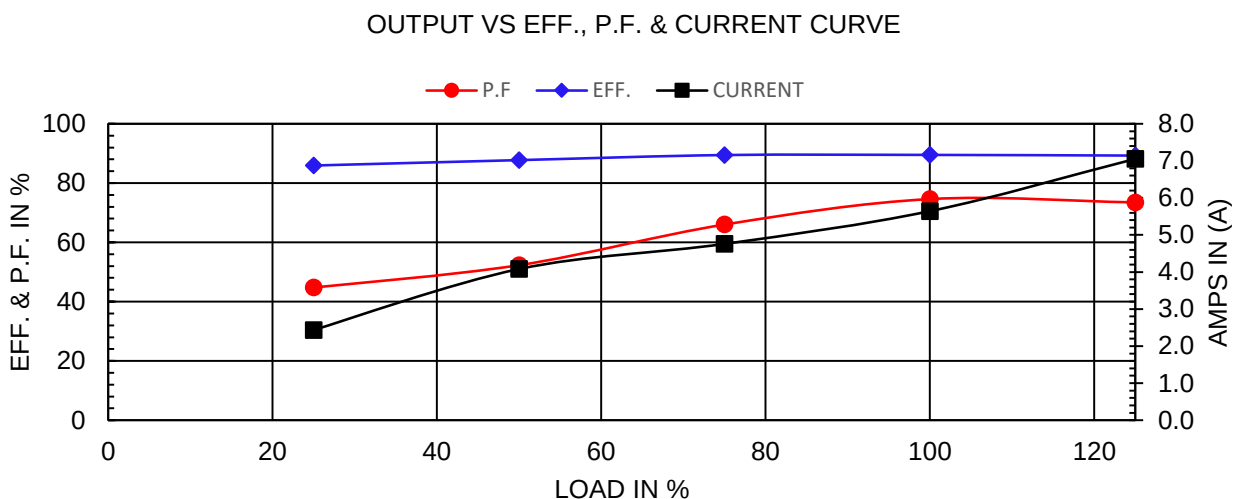
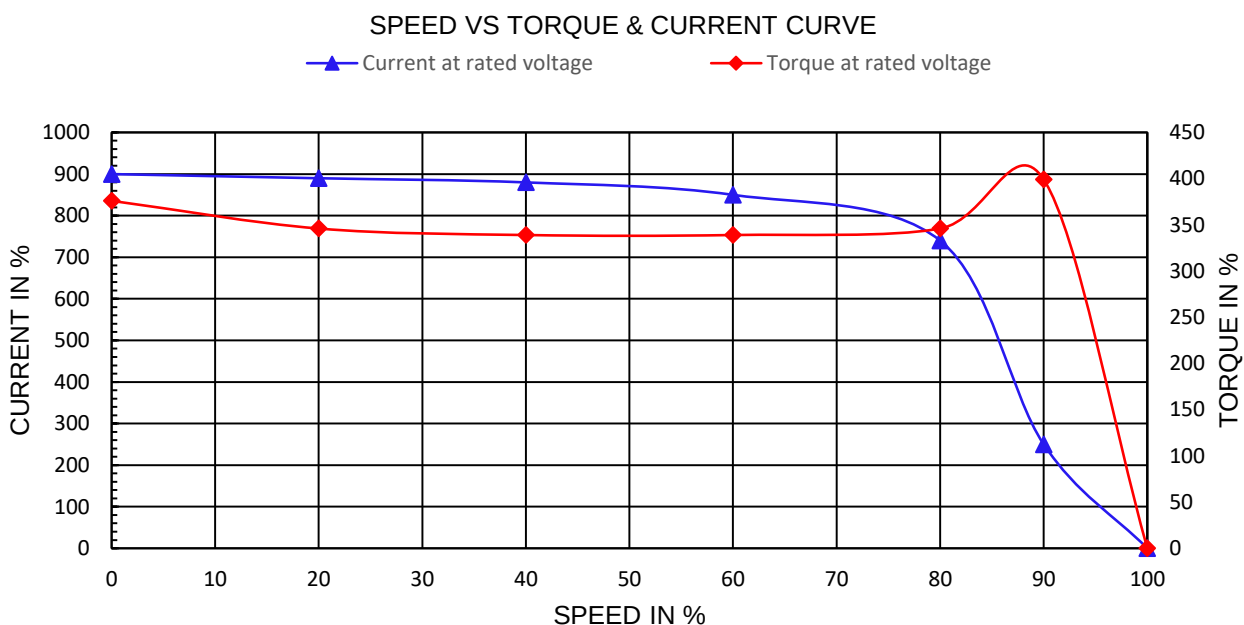
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|                    |               |  |            |      |                    |
|--------------------|---------------|--|------------|------|--------------------|
| Motor Type         |               |  |            |      |                    |
| Output Rating (HP) | 4             |  | FL Speed   | 1754 |                    |
| Full Load Torque   | 16.330 lb.ft  |  | LRT (%FLT) | 376  | 460 volt FLA 5.64  |
| Rotor Wk^2         | 0.164 lb-ft^2 |  | BDT (%FLT) | 399  | 230 volt FLA 11.28 |



NAMEPLATE / WIRING

Premium Efficiency Motor: IEC4-18-100-FF

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SAMPLE NAMEPLATE DATA

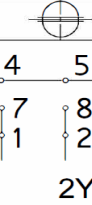
  
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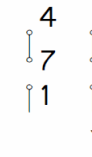
3-PHASE  
INDUCTION MOTOR

ENERGY  
C<sup>®</sup> US  
E309286

IE3   
IEC 60034-1

|      |    |   |         |    |         |        |     |  |       |          |
|------|----|---|---------|----|---------|--------|-----|--|-------|----------|
| TYPE |    |   | OUT PUT | HP | kW      | INS.F  | FR. |  | IP55  | AMB.40°C |
| V    | Hz | A | r/min   | SF | IE CODE | η 100% |     |  | η 75% | η 50%    |
|      |    |   |         |    |         |        |     |  |       |          |
|      |    |   |         |    |         |        |     |  |       |          |

  
2Y

  
Y

|          |     |           |         |        |    |
|----------|-----|-----------|---------|--------|----|
| Code " " |     | " at 60Hz |         | Duty   | S1 |
| DES      | N   |           | DE BRG  |        |    |
| IC       | 411 |           | ODE BRG |        |    |
| SN.      |     |           | Date    | Weight | kg |

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|         |                |            |        |      |         |       |      |       |      |
|---------|----------------|------------|--------|------|---------|-------|------|-------|------|
| TYPE    | IEC4-18-100-FF |            | OUTPUT | HP   | 4       | kW    | 2.98 | FRAME | 100L |
| V       | Hz             | A          | r/min. | SF   | IE CODE | η100% | η75% | η50%  |      |
| 190/380 | 50             | 12.91/6.46 | 1438   | 1.00 | IE3     | 87.7  | 88.8 | 88.5  |      |
| 230/460 | 60             | 11.28/5.64 | 1754   | 1.15 | IE3     | 89.5  | 89.5 | 87.7  |      |

|       |   |          |         |         |        |       |
|-------|---|----------|---------|---------|--------|-------|
| Code" | M | "at 60Hz | DE BRG  | 6206 ZZ | Weight | 27 kg |
|       |   |          | ODE BRG | 6305 ZZ |        |       |