

DATA SHEET

Premium Efficiency Motor: **IEC1.5-18-90-FF,**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

| MOTOR INFORMATION | |
|-------------------------|-----------------------------|
| HP | 1.5 |
| RPM | 1800 |
| Phase | 3 |
| Frequency | 60 |
| Voltage | 230/460 |
| Frame Size | 90S |
| Enclosure | TEFC |
| Degree of Protection | IP55 |
| Service Factor | 1.15 |
| Poles | 4 |
| Full Load Speed | 1738 |
| Insulation Class | F |
| Temp Rise | 80°C |
| NEMA Code Letter | J |
| Duty Cycle | S1 |
| Slip | 3.43% |
| IEC Design | N |
| Moment of Inertia | 0.0844 lb.ft.^2 |
| Locked Rotor Time (Hot) | 12 seconds |
| Sound Pressure Level | 85 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% | 86.5 % | 0.76 |
| 75% | 86.2 % | 0.68 |
| 50% | 83.9 % | 0.54 |

| TORQUE | | |
|--------------|-------|-------|
| FULL LOAD | LRT | BDT |
| 6.036 lb.ft. | 283 % | 378 % |

| AMPERAGE INFORMATION | | |
|----------------------|-------|-------|
| | 230V | 460V |
| Full Load Amps | 4.22 | 2.11 |
| Locked Rotor Amps | 28.44 | 14.22 |
| No Load Current | 2.55 | 1.27 |

| BEARING INFORMATION | |
|---------------------|---------|
| DE Bearing | 6205 ZZ |
| ODE Bearing | 6304 ZZ |
| Grease Type | NS7 |

| ADDITIONAL DATA | |
|--------------------|--------------|
| Multi-Mount | Yes |
| Shaft Material | AISI 1040/45 |
| Connection Diagram | 9 Lead Wye |
| Approximate Weight | 16 kg |

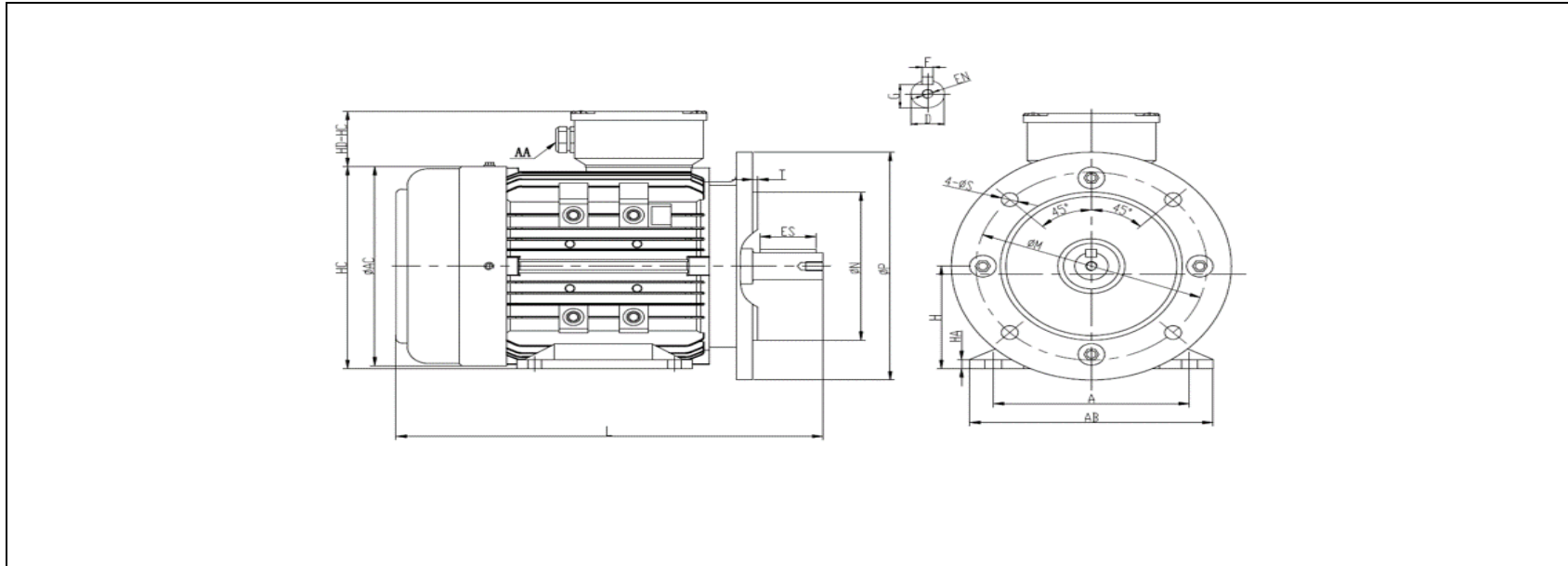
MOTOR DRAWING

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DIMENSION - METRIC (mm)

| MOUNTING | | | | AB | BB | L | H | HA | AC | HC |
|----------|-----|----|----|-----|-----|-----|----|----|-----|-------|
| A | B | C | K | | | | | | | |
| 140 | 100 | 56 | 10 | 159 | 125 | 305 | 90 | 8 | 175 | 177.5 |

| SHAFT & KEY | | | | | |
|-------------|----|----|----|----|---------|
| F | ES | G | E | D | EN |
| 8 | 40 | 20 | 50 | 24 | M8-25mm |

| TERMINAL BOX | |
|--------------|-------|
| AA | HD-HC |
| M20 | 49 |

| FLANGE | | | | |
|--------|-----|-----|-----|--------|
| N | P | T | M | S |
| 130 | 200 | 3.5 | 165 | 4*12mm |

PERFORMANCE CURVES

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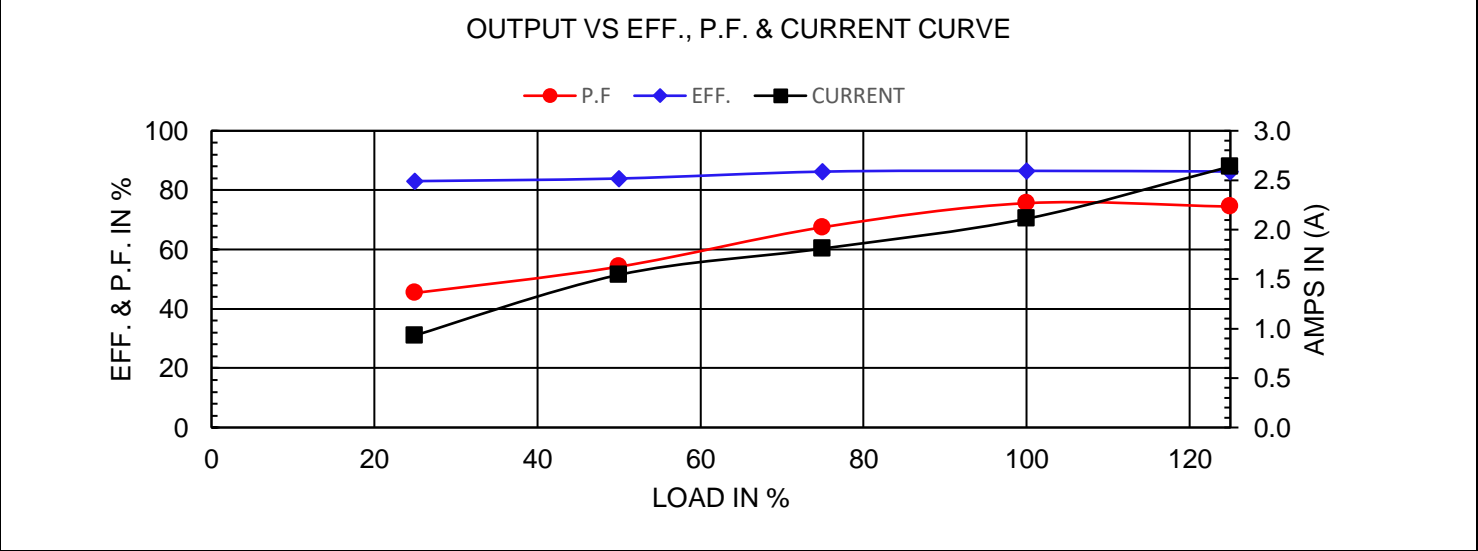
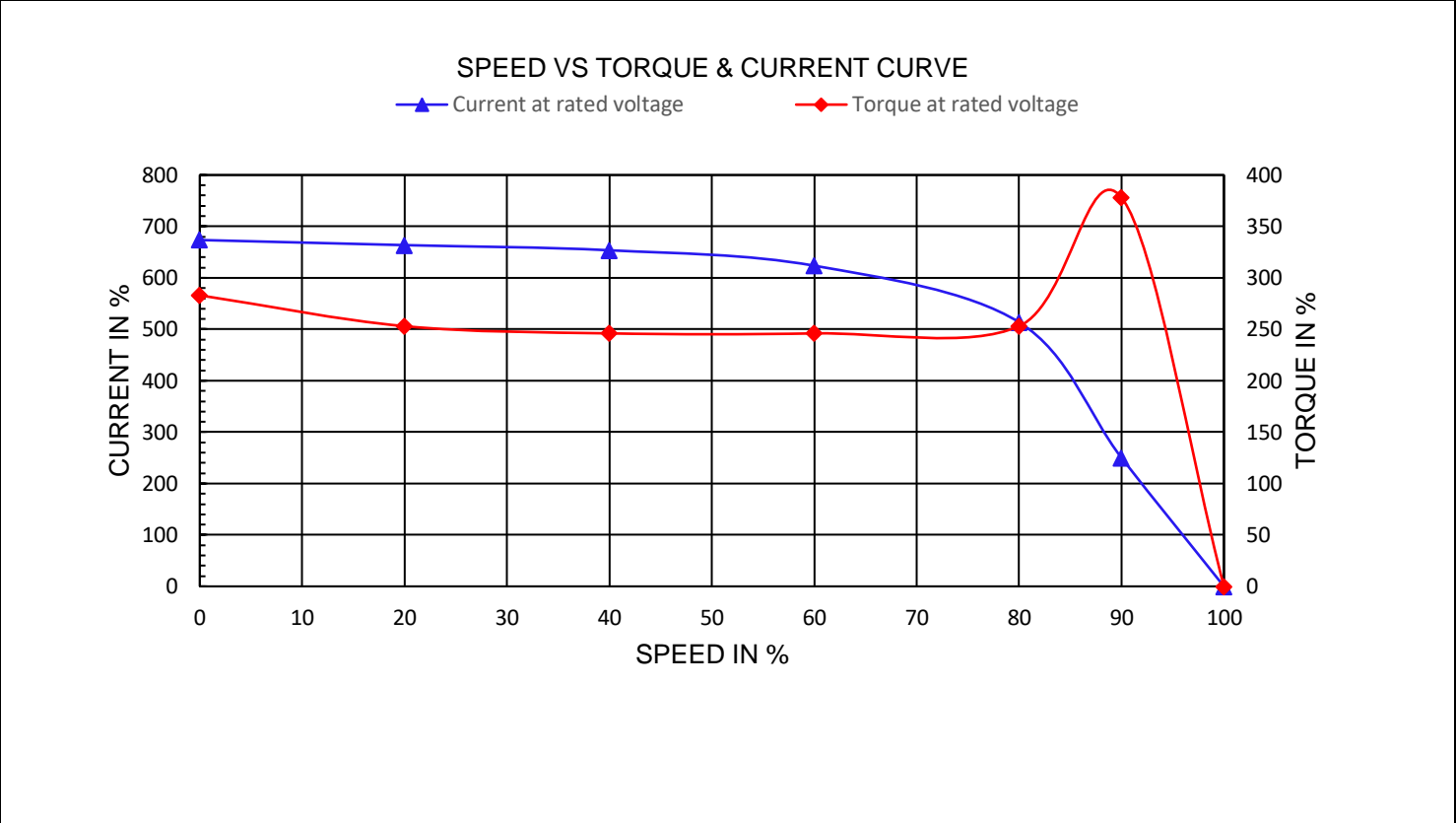
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|-----------------------|---------------------------|------------|------|--------------|------|
| Motor Type | | | | | |
| Output Rating (HP) | 1.5 | FL Speed | 1738 | | |
| Full Load Torque | 6.036 lb.ft | LRT (%FLT) | 283 | 460 volt FLA | 2.11 |
| Rotor Wk ² | 0.0844 lb-ft ² | BDT (%FLT) | 378 | 230 volt FLA | 4.22 |



NAMEPLATE / WIRING

Premium Efficiency Motor: **IEC1.5-18-90-FF**

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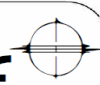
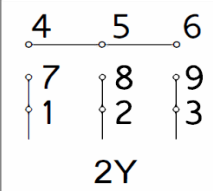
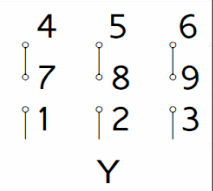
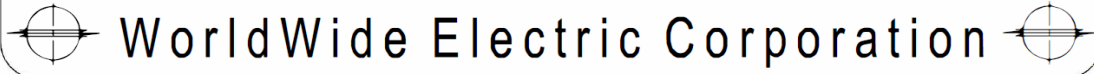
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SAMPLE NAMEPLATE DATA

| | | | | | | | | | | | |
|--|----|--|-------|------------------|---------|---|--------|---------------|----------|---|--|
|  | | 3-PHASE INDUCTION MOTOR | | | |  | | IE3 CE | |  | |
| | | CC306B | | | | | | IEC 60034-1 | | | |
| TYPE | | OUTPUT | | HP | kW | INS.F | FR. | IP55 | AMB.40°C | | |
| V | Hz | A | r/min | SF | IE CODE | η 100% | η 75% | η 50% | | | |
| | | | | | | | | | | | |
|  | |  | | Code " " at 60Hz | | Duty | | S1 | | | |
| | | | | DES | N | DE BRG | | | | | |
| | | | | IC | 411 | ODE BRG | | | | | |
| | | | | SN. | | Date | Weight | kg | | | |
|  | | | | | | | | | | | |

| | | | | | | | | | |
|---------|-----------------|-----------|--------|------|---------|-------|------|-------|-----|
| TYPE | IEC1.5-18-90-FF | | OUTPUT | HP | 1.5 | kW | 1.12 | FRAME | 90S |
| V | Hz | A | r/min. | SF | IE CODE | η100% | η75% | η50% | |
| 190/380 | 50 | 4.88/2.44 | 1419 | 1.00 | IE3 | 84.1 | 85.4 | 84.7 | |
| 230/460 | 60 | 4.22/2.11 | 1738 | 1.15 | IE3 | 86.5 | 86.2 | 83.9 | |

| | | | | | | |
|-------|---|----------|---------|---------|--------|-------|
| Code" | J | "at 60Hz | DE BRG | 6205 ZZ | Weight | 16 kg |
| | | | ODE BRG | 6304 ZZ | | |