

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1011633-BR

Catalog No: 1011633

TerraMAX® Cast Iron Motor, 150 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 280S/M Frame, TEFC



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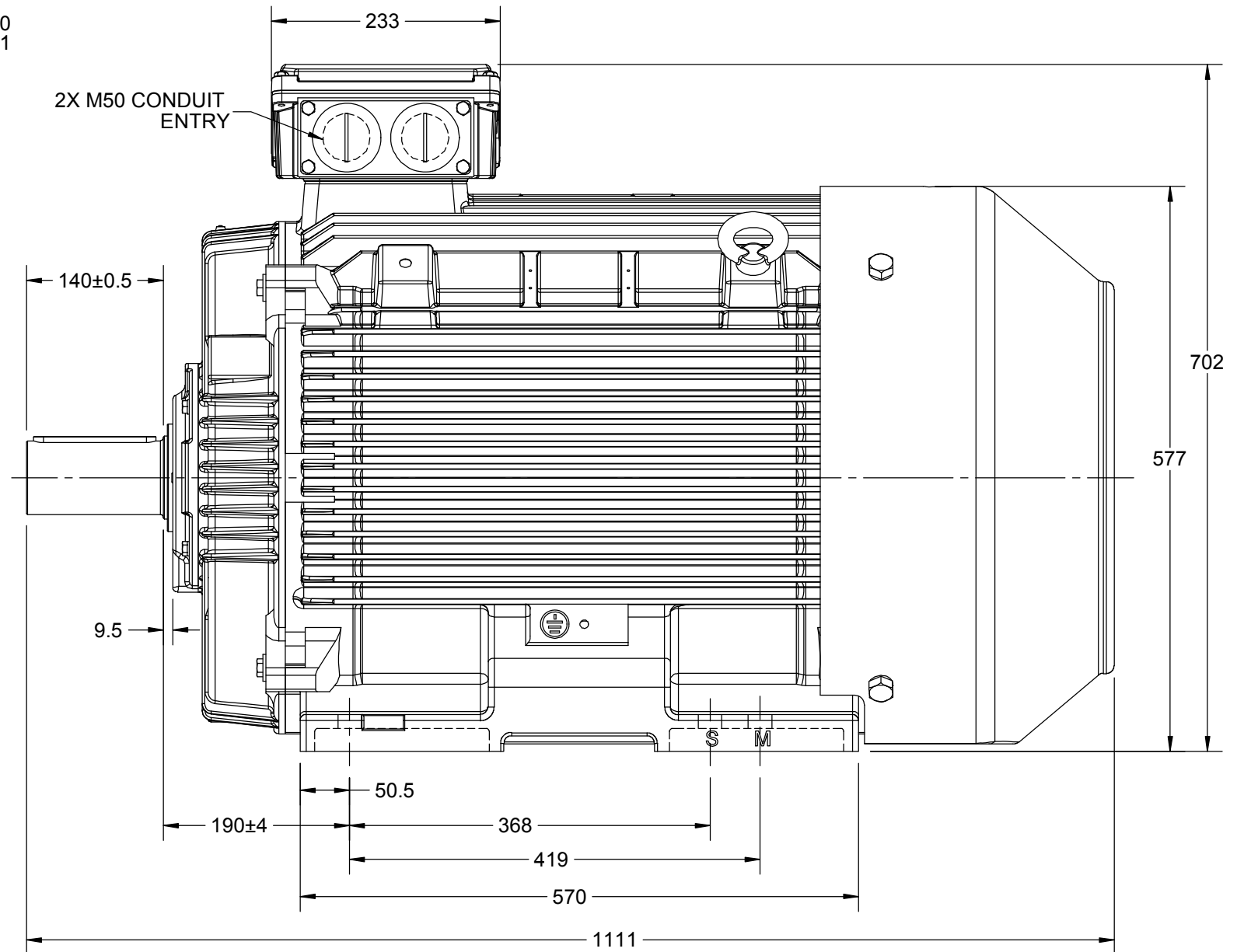
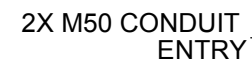
Nameplate Specifications

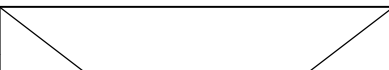


| | | | |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP | 150 Hp | Output KW | 110.0 kW |
| Frequency | 60 Hz | Voltage | 380 V |
| Current | 5.8 A | Speed | 1789 rpm |
| Service Factor | 1.25 | Phase | 3 |
| Efficiency | 95.8 % | Power Factor | 0.86 |
| Duty | S1 | Insulation Class | F |
| Frame | 280S/M | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6317 | Opp Drive End Bearing Size | 6317 |
| UL | No | CSA | No |
| CE | No | IP Code | 55 |
| Number of Speeds | 1 | | |

Technical Specifications

| | | | |
|-----------------------|---------------|-----------------------|----------------|
| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| Poles | 4 | Rotation | Clockwise |
| Mounting | B3 | Motor Orientation | Horizontal |
| Drive End Bearing | C3 | Opp Drive End Bearing | C3 |
| Frame Material | Cast | Shaft Type | Keyed |
| Overall Length | 1111 mm | Frame Length | 600 mm |
| Shaft Diameter | 75 mm | Shaft Extension | 140 mm |
| Assembly/Box Mounting | TOP | | |
| Outline Drawing | 0228000589 | | |

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|--|--|-------------------|--------------------|---|---|--|---|------------------------------|----------------|-----------------|
| DRAWING REVISION E | | REVISION BY LK | DATE 17/04/2019 |  | DRAWN BY JOY | |  | | | |
| ECO ECO-0165600 | | APPROVED BY SR | DATE 17/04/2019 | | DATE 18/07/2014 | | | | | |
| ECO DESCRIPTION UPDATED MODEL AS PER NEW 3D STRUCTURE | | | | | APPROVED BY SBD | | DESCRIPTION OUTLINE 280M-4P-B3 MTG. MOTOR TYPE: TCA/QCA | | | |
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| | | | | | REFERENCE | | MATERIAL | | PROCESS/FINISH | |
| | | | | | THIRD ANGLE PROJECTION  | | SIZE B | DRAWING NUMBER 0228000589 | | SHEET 1 OF 1 |

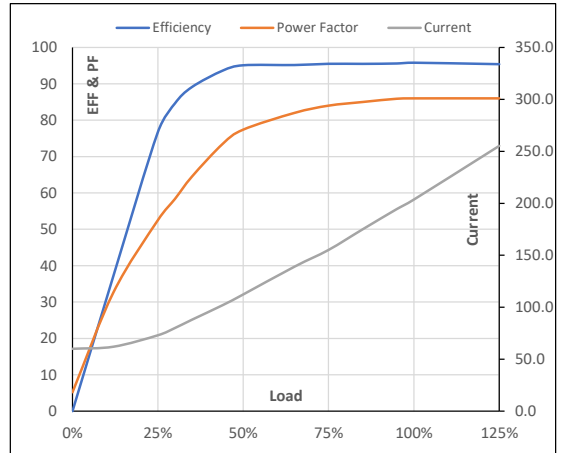
Model No. 1011633

| Enclosure | U (V) | Δ / Y Conn | f [Hz] | P [kW] | P [hp] | I [A] | n [RPM] | T [kgm] | T [Nm] | IE Class | Amb [°C] | Duty | Elevation [m] | Inertia [kg-m ²] | Weight [kg] |
|-----------|----------|---------------|-----------|-----------|-----------|----------|------------|------------|-----------|-------------|-------------|------|------------------|---------------------------------|----------------|
| TEFC | 380 | Δ | 60 | 110 | 150 | 203.6 | 1789 | 59.96 | 588.00 | IR3 | 40 | S1 | 1000 | 9.98 | 780 |

Motor Load Data

| Load Point | | NL | 1/4FL | 1/2FL | 3/4FL | FL | 5/4FL |
|--------------|-------|------|-------|-------|-------|-------|-------|
| Current | A | 60.0 | 73.0 | 112.3 | 155.1 | 203.6 | 255.3 |
| Torque | Nm | 0.0 | 148.6 | 297.6 | 447.1 | 588.0 | 748.0 |
| Speed | r/min | 1800 | 1797 | 1795 | 1792 | 1789 | 1785 |
| Efficiency | % | 0.0 | 76.7 | 95.1 | 95.5 | 95.8 | 95.4 |
| Power Factor | % | 5.2 | 52.5 | 77.4 | 84.0 | 86.0 | 86.0 |

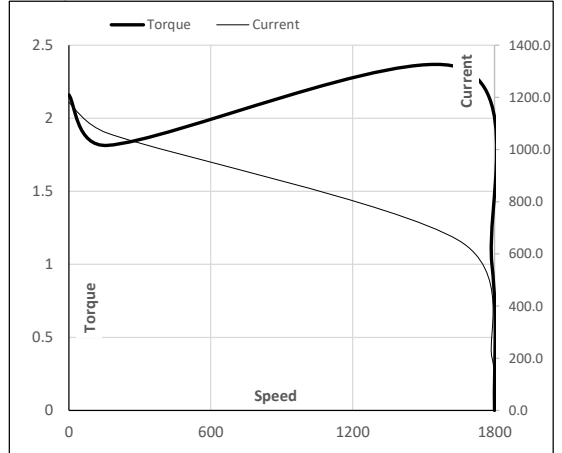
Performance vs Load Chart



Motor Speed Torque Data

| Load Point | | LR | P-Up | BD | Rated | NL |
|------------|-------|--------|--------|-------|-------|------|
| Speed | r/min | 0 | 164 | 1646 | 1789 | 1800 |
| Current | A | 1180.9 | 1062.8 | 653.1 | 203.6 | 60.0 |
| Torque | pu | 2.2 | 1.8 | 2.4 | 1 | 0 |

Starting Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

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