

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009441-BR

Catalog No: 1009441

TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 60 Hz, 380 V, 1200 RPM, 90S Frame, TEFC



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RegalRexnord

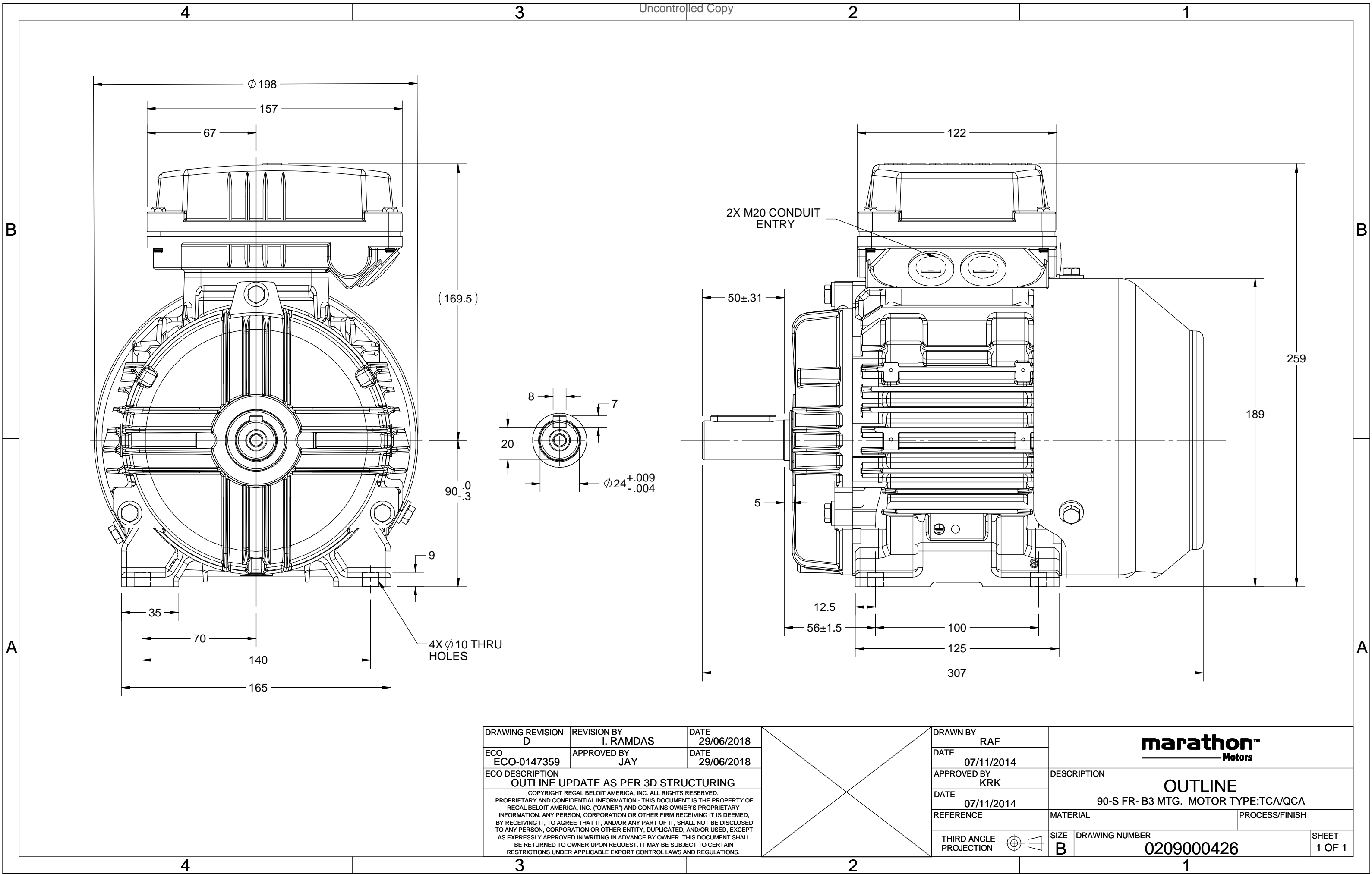
Nameplate Specifications

| | | | |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP | 1 Hp | Output KW | 0.75 kW |
| Frequency | 60 Hz | Voltage | 380 V |
| Current | 1.9 A | Speed | 1147 rpm |
| Service Factor | 1.25 | Phase | 3 |
| Efficiency | 82.5 % | Power Factor | 0.71 |
| Duty | S1 | Insulation Class | F |
| Frame | 90S | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6205 | Opp Drive End Bearing Size | 6205 |
| 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 | 6 | Rotation | Clockwise |
| Mounting | B3 | Motor Orientation | Horizontal |
| Drive End Bearing | Zzc3 | Opp Drive End Bearing | Zzc3 |
| Frame Material | Cast | Shaft Type | Keyed |
| Overall Length | 307 mm | Frame Length | 128 mm |
| Shaft Diameter | 24 mm | Shaft Extension | 50 mm |
| Assembly/Box Mounting | TOP | | |
| Outline Drawing | 0209000426 | | |

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|--|--------------------------|--------------------|
| DRAWING REVISION D | REVISION BY I. RAMDAS | DATE 29/06/2018 |
| ECO ECO-0147359 | APPROVED BY JAY | DATE 29/06/2018 |
| ECO DESCRIPTION OUTLINE UPDATE AS PER 3D STRUCTURING | | |
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|---------------------------|-------------------------------------|------------------------------|-----------------|
| DRAWN BY RAF | marathon™ Motors | | |
| DATE 07/11/2014 | | | |
| APPROVED BY KRK | DESCRIPTION OUTLINE | | |
| DATE 07/11/2014 | 90-S FR- B3 MTG. MOTOR TYPE:TCA/QCA | | |
| REFERENCE | MATERIAL | PROCESS/FINISH | |
| THIRD ANGLE PROJECTION | SIZE B | DRAWING NUMBER 0209000426 | SHEET 1 OF 1 |

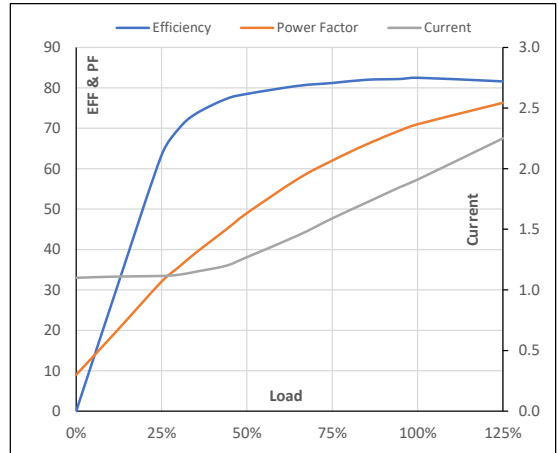
Model No. 1009441

| 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 | 0.75 | 1 | 1.9 | 1147 | 0.62 | 6.12 | IR3 | 40 | S1 | 1000 | 0.0168 | 26 |

Motor Load Data

| Load Point | | NL | 1/4FL | 1/2FL | 3/4FL | FL | 5/4FL |
|--------------|-------|------|-------|-------|-------|------|-------|
| Current | A | 1.1 | 1.1 | 1.3 | 1.6 | 1.9 | 2.3 |
| Torque | Nm | 0.0 | 1.5 | 3.1 | 4.6 | 6.1 | 126.1 |
| Speed | r/min | 1200 | 1186 | 1174 | 1161 | 1147 | 1130 |
| Efficiency | % | 0.0 | 63.3 | 78.5 | 81.2 | 82.5 | 81.6 |
| Power Factor | % | 9.0 | 32.0 | 49.0 | 62.0 | 71.0 | 76.3 |

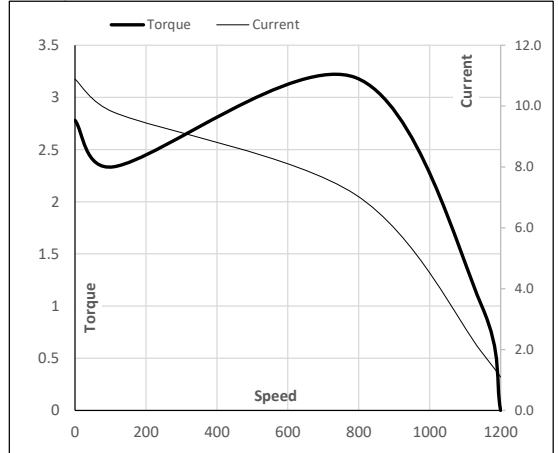
Performance vs Load Chart



Motor Speed Torque Data

| Load Point | | LR | P-Up | BD | Rated | NL |
|------------|-------|------|------|-----|-------|------|
| Speed | r/min | 0 | 109 | 791 | 1147 | 1200 |
| Current | A | 10.9 | 9.8 | 7.1 | 1.9 | 1.1 |
| Torque | pu | 2.8 | 2.3 | 3.2 | 1 | 0 |

Starting Characteristics Chart



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

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