

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: SCAP752A1181GAA001

Catalog No: SCAP752A1181GAA001

TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 400 V, 1500 RPM, 80M Frame, TEFC



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Nameplate Specifications

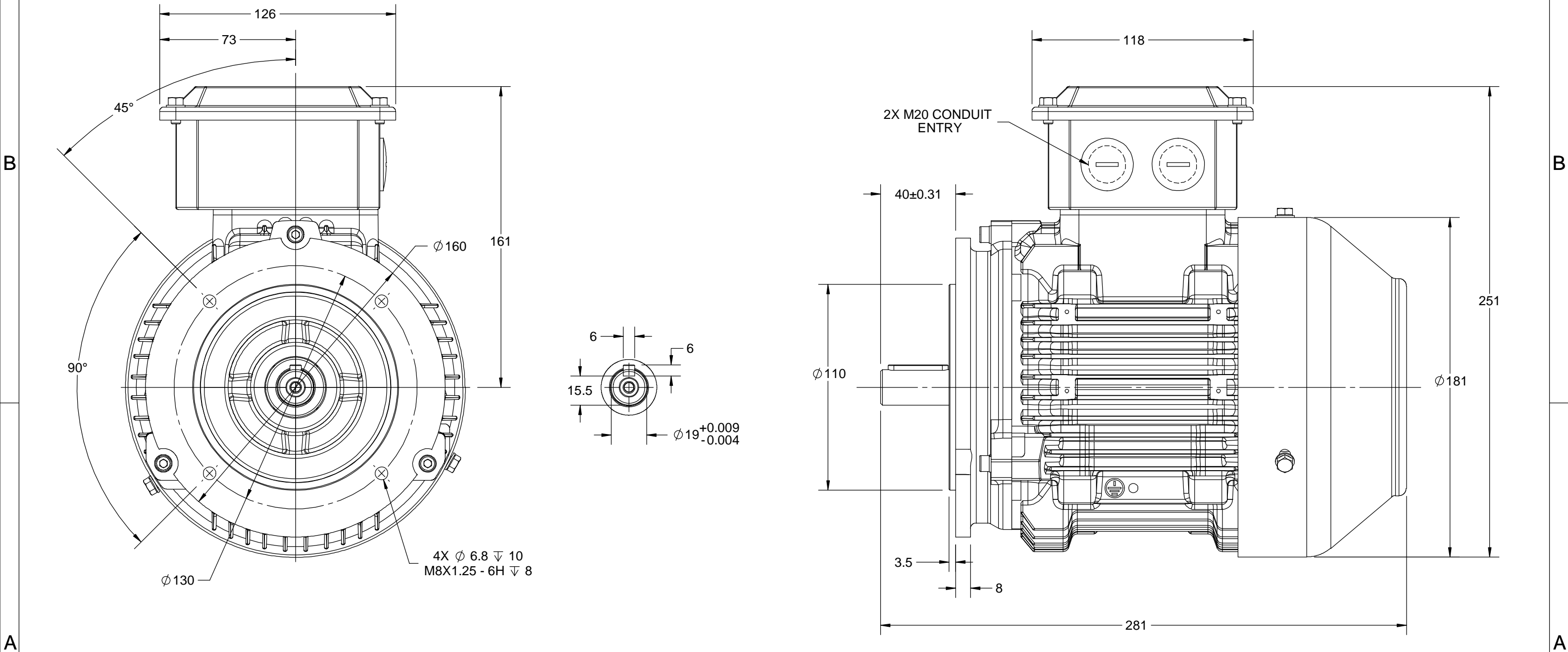
| | | | |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP | 1 Hp | Output KW | 0.75 kW |
| Frequency | 50 Hz | Voltage | 400 V |
| Current | 1.8 A | Speed | 1415 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 79.6 % | Power Factor | 0.75 |
| Duty | S1 | Insulation Class | F |
| Frame | 80M | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6204 | Opp Drive End Bearing Size | 6204 |
| UL | No | CSA | No |
| CE | Yes | IP Code | 55 |
| Number of Speeds | 1 | Efficiency Class | IE2 |

Technical Specifications

| | | | |
|-----------------------|---------------|-----------------------|----------------|
| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| Poles | 4 | Rotation | Bi-Directional |
| Mounting | B14B | Motor Orientation | Horizontal |
| Drive End Bearing | 2z-C3 | Opp Drive End Bearing | 2z-C3 |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 281 mm | Frame Length | 140 mm |
| Shaft Diameter | 19 mm | Shaft Extension | 40 mm |
| Assembly/Box Mounting | Top | | |
| Outline Drawing | 0208000359 | Connection Drawing | 8442000085 |

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OUTLINE



| | | | | | | | |
|--|--------------------|--------------------|--|---------------------------|-----------------------------------|------------------------------|-----------------|
| DRAWING REVISION A | REVISION BY LK | DATE 22/06/2018 | | DRAWN BY LK | <div>marathon™ Motors</div> | | |
| ECO ECO-0147803 | APPROVED BY JAY | DATE 22/06/2018 | | DATE 22/06/2018 | | | |
| ECO DESCRIPTION NEW DRAWING RELEASE | | | | APPROVED BY JAY | DESCRIPTION OUTLINE | | |
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| | | | | REFERENCE | MATERIAL | PROCESS/FINISH | |
| | | | | THIRD ANGLE PROJECTION | SIZE B | DRAWING NUMBER 0208000359 | SHEET 1 OF 1 |

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| | | |
|---|---------------------------|---------------------------|
| DRAWING REVISION A | REVISION BY SN | DATE 13/01/2017 |
| ECO ECO-0116390 | APPROVED BY SBD | DATE 13/01/2017 |
| ECO DESCRIPTION NEW DRAWING RELEASE | | |

| GEOMETRIC TOLERANCE | | |
|---------------------|---------|------|
| LINEAR DIM | >0~6 | ±0.1 |
| | >6~30 | ±0.2 |
| | >30~120 | ±0.3 |



NOTES:

1. PRESSURE-SENSITIVE ADHESIVE COATED PAPER ON THE BACK OF SELF-ADHESIVE.
2. AT THE END OF YELLOW, WORDS, SYMBOLS, LETTERS ARE BLACK, BORDER IS BLACK.
3. THE TOLERANCE OF THE LINEAR SIZE OF THE TOLERANCE WITHOUT THE TOLERANCE BY THE TABLE.

8WD.442.2017

| | | | |
|--|---------------------------|--|-------------------------------------|
| | DRAWN BY SN | Regal Beloit America, Inc. | |
| | DATE 16/12/2016 | | |
| | APPROVED BY SBD | DESCRIPTION CONN DIAGRAM-NAMEPLATE | |
| | DATE 16/12/2016 | | |
| | REFERENCE | MATERIAL | PROCESS/FINISH |
| | THIRD ANGLE PROJECTION | SIZE A | DRAWING NUMBER 8442000085 |

SHEET
1 OF 1

Model No. SCAP752A1181GAA001

| U (V) | Δ / Y Conn | f [Hz] | P [kW] | P [hp] | I [A] | n [RPM] | T [Nm] | IE Class | % EFF at __ load | | | | PF at __ load | | | I _A /I _N [pu] | T _A /T _N [pu] | T _K /T _N [pu] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------|----|-------|-------|---------------|-------|-------|--|--|--|
| 400 | Y | 50 | 0.75 | 1.0 | 1.8 | 1415 | 5.06 | IE2 | 5/4FL | FL | 3/4FL | 1/2FL | FL | 3/4FL | 1/2FL | 5.84 | 3.1 | 3.3 |
| | | | | | | | | | | | | | | | | | | |

| | | | |
|----------------------------------|--------------------|---|--|
| Motor type | SCA | Degree of protection | IP 55 |
| Enclosure | TEFC | Mounting type | IM B14B |
| Frame Material | Cast Iron | Cooling method | IC 411 |
| Frame size | 80M | Motor weight - approx. | 15.1 kg |
| Duty | S1 | Gross weight - approx. | 16.1 kg |
| Voltage variation * | ± 10% | Motor inertia | 0.0020 kgm ² |
| Frequency variation * | ± 5% | Load inertia | Customer to Provide |
| Combined variation * | 10% | Vibration level | 1.6 mm/s |
| Design | N | Noise level (1meter distance from motor) | 47 dB(A) |
| Service factor | 1.0 | No. of starts hot/cold/Equally spread | 2/3/4 |
| Insulation class | F | Starting method | DOL |
| Ambient temperature | -20 to +40 °C | Type of coupling | Direct |
| Temperature rise (by resistance) | 80 [Class B] K | LR withstand time (hot/cold) | 25/12 s |
| Altitude above sea level | 1000 meter | Direction of rotation | Bi-directional |
| Hazardous area classification | NA | Standard rotation | Clockwise form DE |
| Zone classification | NA | Paint shade | RAL 5014 |
| Gas group | NA | Accessories | |
| Temperature class | NA | Accessory - 1 | PTC 150°C |
| Rotor type | Aluminum Die cast | Accessory - 2 | - |
| Bearing type | Anti-friction ball | Accessory - 3 | - |
| DE / NDE bearing | 6204-2Z / 6204-2Z | Terminal box position | TOP |
| Lubrication method | Greased for life | Maximum cable size/conduit size | 1R x 3C x 10mm ² /2 x M20 x 1.5 |
| Type of grease | NA | Auxiliary terminal box | Available on Request |

 I_A/I_N - Locked Rotor Current / Rated Current

 T_K/T_N - Breakdown Torque / Rated Torque

 T_A/T_N - Locked Rotor Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combine variation are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

| Efficiency Standards | Europe IEC: 60034-30 | China - | India - | Aus/Nz AS/NZ 1359:5:2004 | Brazil - | Global IEC IEC: 60034-30 |
|----------------------|-------------------------|------------|------------|-----------------------------|-------------|-----------------------------|
|----------------------|-------------------------|------------|------------|-----------------------------|-------------|-----------------------------|