PRODUCT INFORMATION PACKET



Model No: SCAP752AG121GAA001 Catalog No: SCAP752AG121GAA001

TerraMAX® Cast Iron Motor, 1 HP, 3 Ph, 50 Hz, 220/380 V, 1500 RPM, 80M Frame, TEFC





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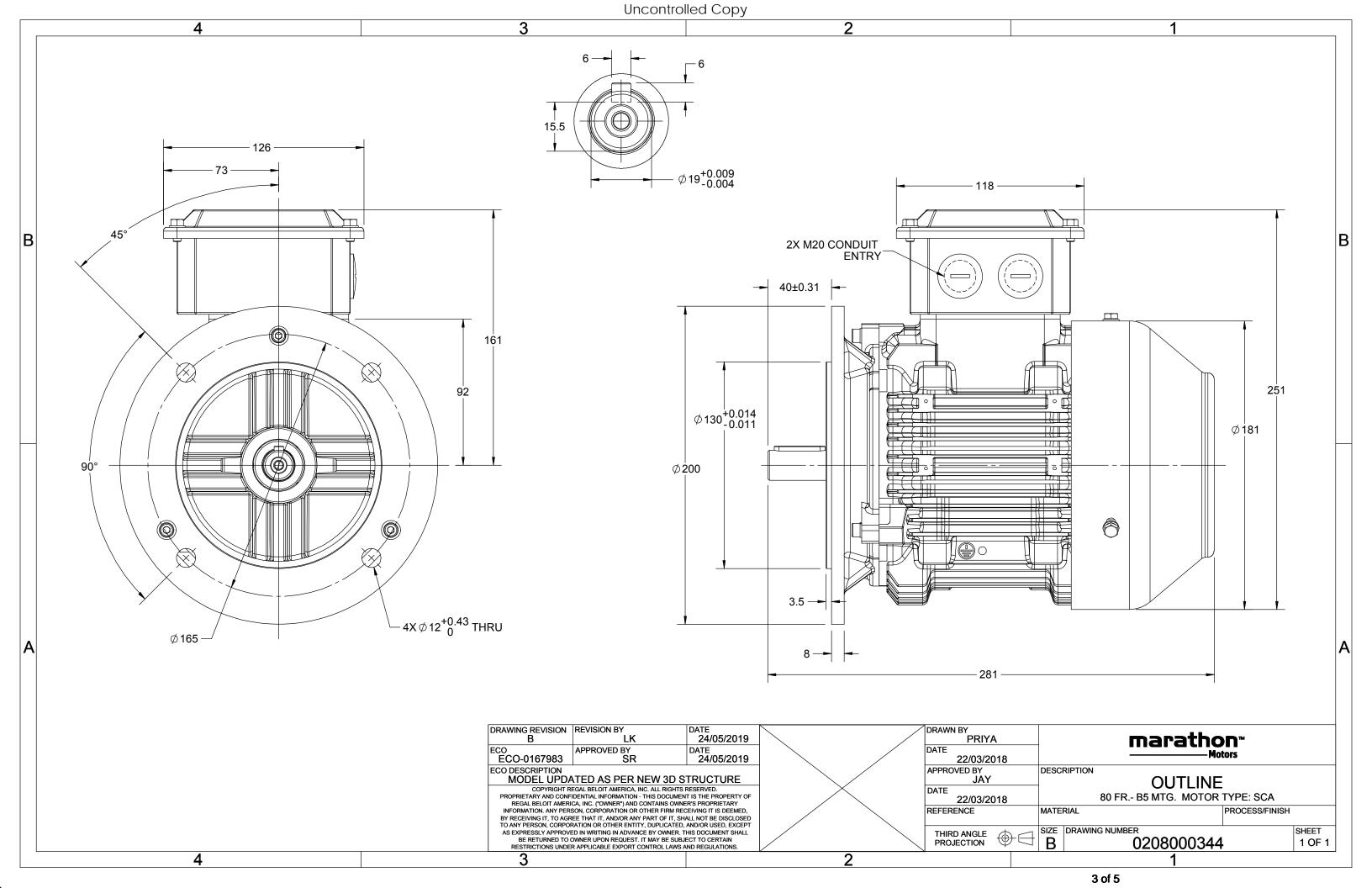
Nameplate Specifications

| Output HP | 1 Hp | Output KW | 0.75 kW |
|------------------------|---------------|----------------------------|-----------------------------|
| Frequency | 50 Hz | Voltage | 220/380 V |
| Current | 1.9 A | Speed | 1415 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 79.6 % | Power Factor | 0.75 |
| Duty | S 1 | 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 | B5 | 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 | Тор | | |
| Connection Drawing | 8442000085 | Outline Drawing | 0208000344 |

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

NEW DRAWING RELEASE

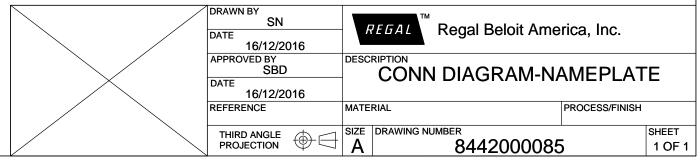
| GEOMENTRIC TOLERANCE | | | | | |
|----------------------|---------|------|--|--|--|
| | >0~6 | ±0.1 | | | |
| LINEAR DIM | >6~30 | ±0.2 | | | |
| | >30~120 | ±0.3 | | | |



NOTES:

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

8WD.442.2017







| Model No. | SCAP752AG121GAA001 |
|-------------|----------------------|
| widuei ivo. | 3CAP / 3ZAGIZIGAAUUI |

| U | Δ/Υ | f | Р | Р | 1 | n | Т | IE | 9 | 6 EFF a | t load | t | PF | at lo | ad | I_A/I_N | T_A/T_N | T_K/T_N |
|---------|------|------|------|------|-----|-------|------|-------|-------|---------|--------|-------|------|-------|-------|-----------|-----------|-----------|
| (V) | Conn | [Hz] | [kW] | [hp] | [A] | [RPM] | [Nm] | Class | 5/4FL | FL | 3/4FL | 1/2FL | FL | 3/4FL | 1/2FL | [pu] | [pu] | [pu] |
| 220/380 | Υ | 50 | 0.75 | 1.0 | 1.9 | 1415 | 5.06 | IE2 | - | 79.6 | 79.6 | 77.2 | 0.75 | 0.7 | 0.58 | 5.84 | 3.1 | 3.3 |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

| Motor type | SCA | |
|----------------------------------|--------------------|-------|
| Enclosure | TEFC | |
| Frame Material | Cast Iron | |
| Frame size | 80M | |
| Duty | S1 | |
| Voltage variation * | ± 10% | |
| Frequency variation * | ± 5% | |
| Combined variation * | 10% | |
| Design | N | |
| Service factor | 1.0 | |
| Insulation class | F | |
| Ambient temperature | -20 to +40 | °C |
| Temperature rise (by resistance) | 80 [Class B] | K |
| Altitude above sea level | 1000 | meter |
| Hazardous area classification | NA | |
| Zone classification | NA | |
| Gas group | NA | |
| Temperature class | NA | |
| Rotor type | Aluminum Die cast | |
| Bearing type | Anti-friction ball | |
| DE / NDE bearing | 6204-2Z / 6204-2Z | |
| Lubrication method | Greased for life | |
| Type of grease | NA | |

| Degree of protection | IP 55 | |
|---|--------------------------|-------|
| Mounting type | IM B5 | |
| Cooling method | IC 411 | |
| Motor weight - approx. | 15.8 | kg |
| Gross weight - approx. | 16.8 | kg |
| Motor inertia | 0.0020 | kgm² |
| Load inertia | Customer to Provide | |
| Vibration level | 1.6 | mm/s |
| Noise level (1meter distance from motor) | 47 | dB(A) |
| No. of starts hot/cold/Equally spread | 2/3/4 | |
| Starting method | DOL | |
| Type of coupling | Direct | |
| LR withstand time (hot/cold) | 12/25 | S |
| Direction of rotation | Bi-directional | |
| Standard rotation | Clockwise form DE | |
| Paint shade | RAL 5014 | |
| Accessories | | |
| Accessory - 1 | - | |
| Accessory - 2 | - | |
| Accessory - 3 | - | |
| Terminal box position | TOP | |
| Maximum cable size/conduit size 1R x | 3C x 10mm²/2 x M20 x 1.5 | |
| Auxiliary terminal box | Available on Request | |

 I_A/I_N - Locked Rotor Current / Rated Current T_A/T_N - Locked Rotor Torque / Rated Torque

 T_K/T_N - Breakdown 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

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

| Efficiency | Europe | China | India | Aus/Nz | Brazil | Global IEC |
|------------|--------|-----------------------|-------|--------|--------|---------------|
| Standards | - | GB 18613-2012 Grade 2 | - | - | - | IEC: 60034-30 |

REGAL

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