

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: TCA0041A3111GACD01

Catalog No: TCA0041A3111GACD01

4.0 kW General Purpose Low Voltage IEC Motor, 3 phase, 3000 RPM, 415 V, 112M Frame, TEFC  
Cast Iron IE3 Efficiency Motors



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**REGAL**

### Nameplate Specifications

|                            |         |                        |                             |
|----------------------------|---------|------------------------|-----------------------------|
| Output HP                  | 5.50 Hp | Output KW              | 4.0 kW                      |
| Frequency                  | 50 Hz   | Voltage                | 415 V                       |
| Current                    | 6.8 A   | Speed                  | 2908 rpm                    |
| Service Factor             | 1       | Phase                  | 3                           |
| Efficiency                 | 88.1 %  | Power Factor           | 0.93                        |
| Duty                       | S1      | Insulation Class       | F                           |
| Frame                      | 112M    | Enclosure              | Totally Enclosed Fan Cooled |
| Ambient Temperature        | 50 °C   | Drive End Bearing Size | 6306                        |
| Opp Drive End Bearing Size | 6206    | UL                     | No                          |
| CSA                        | No      | CE                     | Yes                         |
| IP Code                    | 55      |                        |                             |

### Technical Specifications

|                       |               |                       |                |
|-----------------------|---------------|-----------------------|----------------|
| Electrical Type       | Squirrel Cage | Starting Method       | Direct On Line |
| Poles                 | 2             | Rotation              | Bi-Directional |
| Mounting              | B3            | Motor Orientation     | Horizontal     |
| Drive End Bearing     | 2z-C3         | Opp Drive End Bearing | 2z-C3          |
| Frame Material        | Cast Iron     | Shaft Type            | Keyed          |
| Overall Length        | 399 mm        | Frame Length          | 174 mm         |
| Shaft Diameter        | 28 mm         | Shaft Extension       | 60 mm          |
| Assembly/Box Mounting | Top           |                       |                |
| Connection Drawing    | 8442000085    | Outline Drawing       | 0211200262     |

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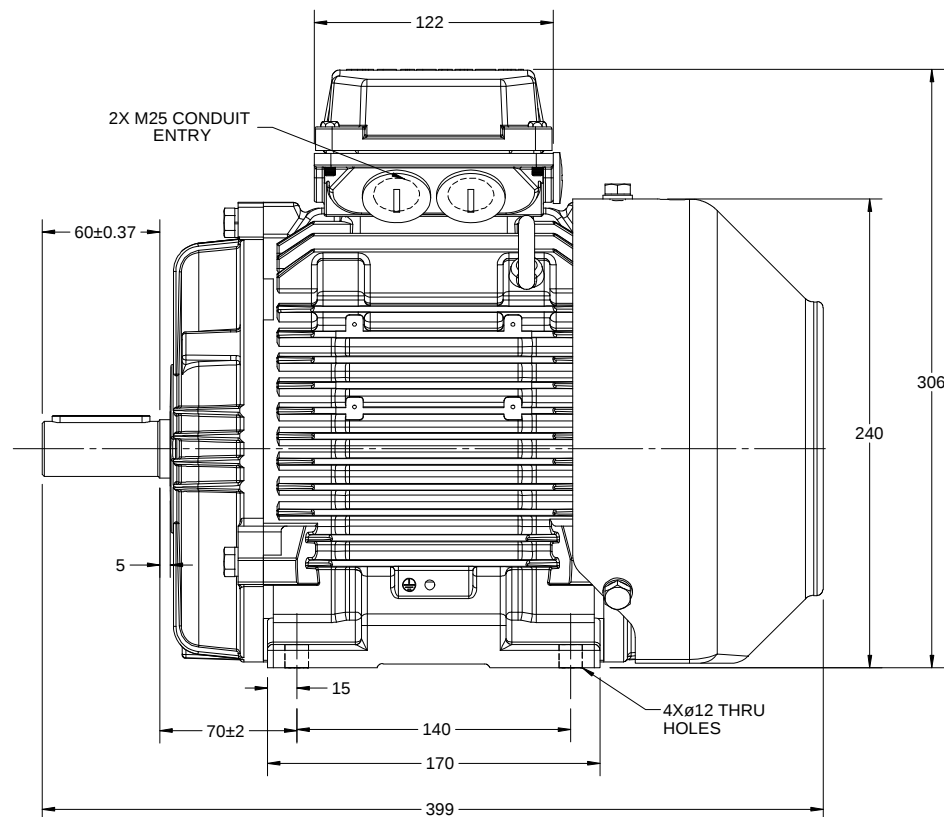
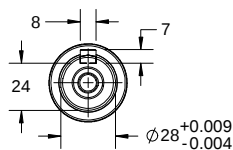
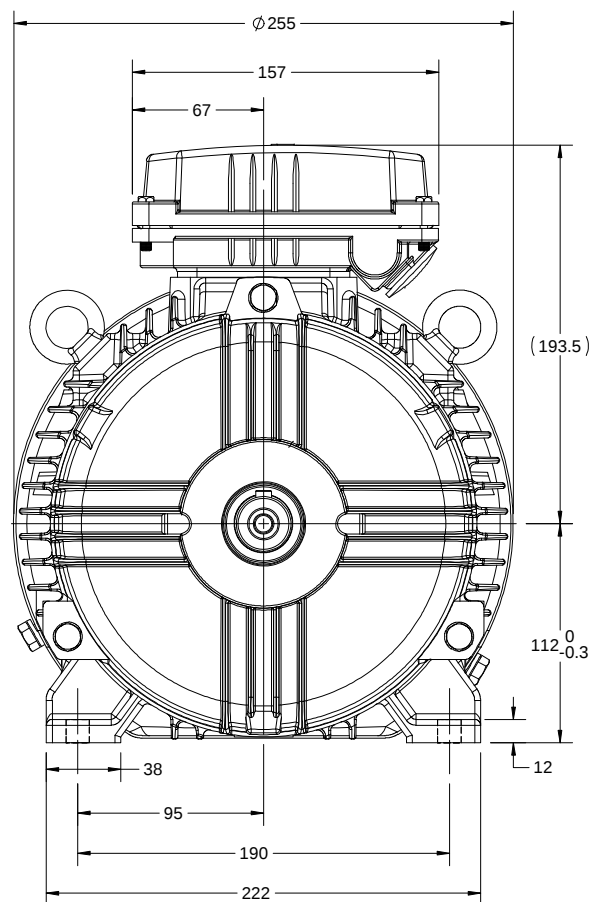
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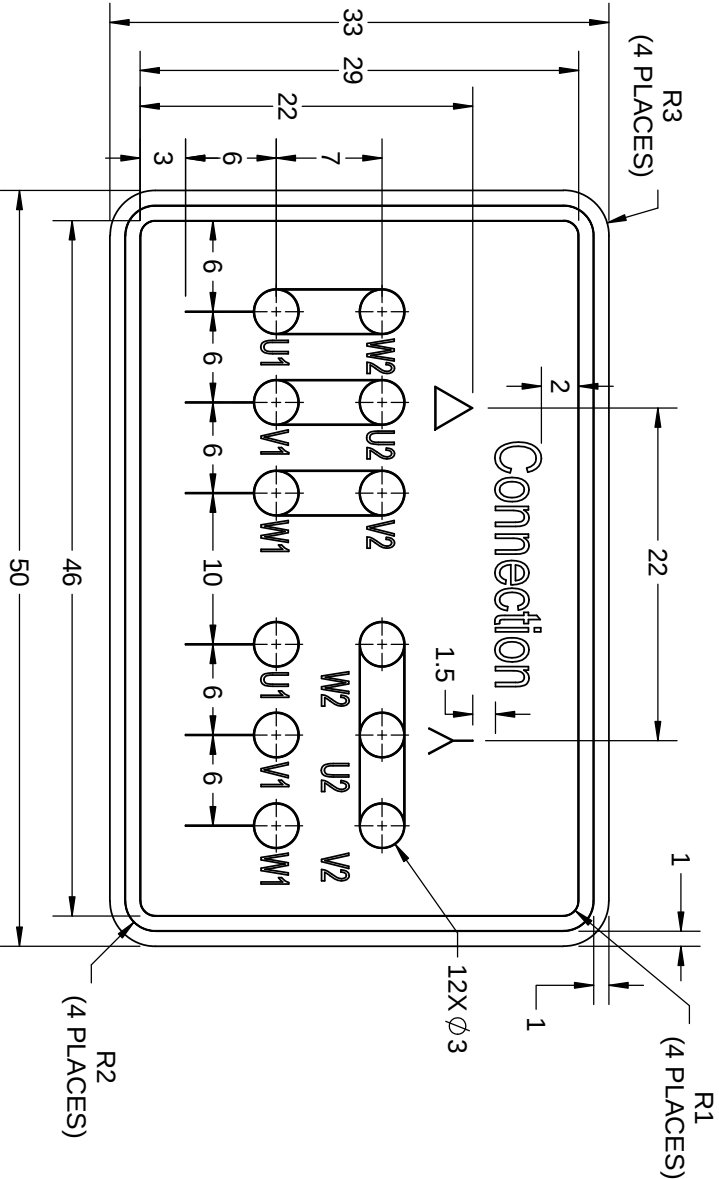


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| DRAWING REVISION<br>D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REVISION BY<br>S.MUDDA | DATE<br>29/06/2018 |
| ECO<br>ECO-0147359                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | APPROVED BY<br>JAY     | DATE<br>29/06/2018 |
| ECO DESCRIPTION<br>OUTLINE UPDATED AS PER NEW 3D STRUCTURING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                    |
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|---------------------------|-----------------------------------------------------------------------|------------------------------|
| DRAWN BY<br>SMAR          |                                                                       |                              |
| DATE<br>02/09/13          |                                                                       |                              |
| APPROVED BY<br>JAY        | DESCRIPTION<br><b>OUTLINE</b><br>112 FR.- B3 MTG. MOTOR TYPE: TCA/QCA |                              |
| DATE<br>02/09/13          |                                                                       |                              |
| REFERENCE                 | MATERIAL                                                              | PROCESS/FINISH               |
| THIRD ANGLE<br>PROJECTION | SIZE<br>B                                                             | DRAWING NUMBER<br>0211200262 |
|                           |                                                                       | SHEET<br>1 OF 1              |

|                       |                    |                    |
|-----------------------|--------------------|--------------------|
| DRAWING REVISION<br>A | REVISION BY<br>SN  | DATE<br>13/01/2017 |
| ECO<br>ECO-0116390    | APPROVED BY<br>SBD | DATE<br>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.
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|                        |  |                                                                                 |  | MATERIAL    |  | PROCESS/FINISH |  |        |  |
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**Model No.** TCA0041A3111GACD01

| U<br>(V) | Δ / Y<br>Conn | f<br>(Hz) | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[RPM] | T<br>[Nm] | IE<br>Class | % EFF at __ load |    |       |       | PF at __ load |       |       | I <sub>a</sub> /I <sub>N</sub><br>[pu] | T <sub>a</sub> /T <sub>N</sub><br>[pu] | T <sub>b</sub> /T <sub>N</sub><br>[pu] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------|----|-------|-------|---------------|-------|-------|----------------------------------------|----------------------------------------|----------------------------------------|
| 415      | Δ             | 50        | 4         | 5.5       | 6.8      | 2908       | 13.46     | IE3         | 5/4FL            | FL | 3/4FL | 1/2FL | FL            | 3/4FL | 1/2FL | 7.7                                    | 2.4                                    | 3.3                                    |
|          |               |           |           |           |          |            |           |             |                  |    |       |       |               |       |       |                                        |                                        |                                        |

|                                  |                            |                                           |                                            |
|----------------------------------|----------------------------|-------------------------------------------|--------------------------------------------|
| Motor type                       | TCA                        | Degree of protection                      | IP 55                                      |
| Enclosure                        | TEFC                       | Mounting type                             | IM B3                                      |
| Frame Material                   | Cast Iron                  | Cooling method                            | IC 411                                     |
| Frame size                       | 112M                       | Motor weight - approx.                    | 50 kg                                      |
| Duty                             | S1                         | Gross weight - approx.                    | 53 kg                                      |
| Voltage variation *              | ± 10%                      | Motor inertia                             | 0.0117 kgm <sup>2</sup>                    |
| 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) | 64 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 +50 °C              | Type of coupling                          | Direct                                     |
| Temperature rise (by resistance) | 70 [ Class B ] K           | LR withstand time (hot/cold)              | 7/15 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                             | -                                          |
| Rotor type                       | Aluminum Die cast          | Accessory - 2                             | -                                          |
| Bearing type                     | Anti-friction ball bearing | Accessory - 3                             | -                                          |
| DE / NDE bearing                 | 6306-2Z / 6206-2Z          | Terminal box position                     | TOP                                        |
| Lubrication method               | Greased for life           | Maximum cable size/conduit size           | 1R x 3C x 16mm <sup>2</sup> /2 x M25 x 1.5 |
| Type of grease                   | NA                         | Auxiliary terminal box                    | NA                                         |

I<sub>a</sub>/I<sub>N</sub> - Locked Rotor Current / Rated CurrentT<sub>b</sub>/T<sub>N</sub> - Breakdown Torque / Rated TorqueT<sub>a</sub>/T<sub>N</sub> - 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 | China | India           | Aus/Nz | Brazil | Global IEC |
|----------------------|--------|-------|-----------------|--------|--------|------------|
|                      | -      | -     | IS 12615 : 2018 | -      | -      | -          |



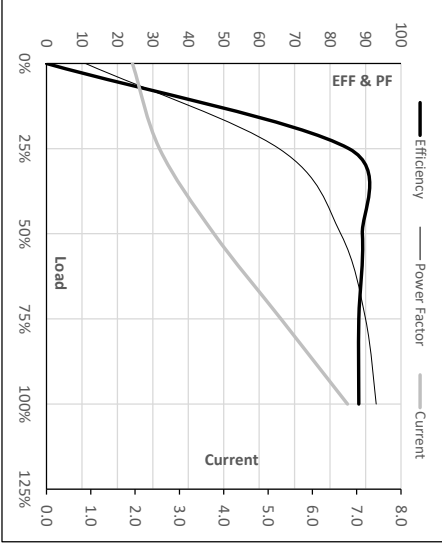
Model No. TCA0041A3111GACD01

| Enclosure | U   | Δ / Y | f    | P    | P   | I     | n     | T    | T     | IE   | Amb | Duty | Elevation | Inertia              | Weight |
|-----------|-----|-------|------|------|-----|-------|-------|------|-------|------|-----|------|-----------|----------------------|--------|
| (V)       | Com | [Hz]  | [kW] | [hp] | [A] | [RPM] | [kgm] | [Nm] | Class | [°C] | S1  | 1000 | [m]       | [kg·m <sup>2</sup> ] | [kg]   |
| TFC       | 415 | Δ     | 50   | 4    | 5.5 | 6.8   | 2908  | 1.37 | 13.46 | IE3  | 50  | S1   | 1000      | 0.0117               | 50     |

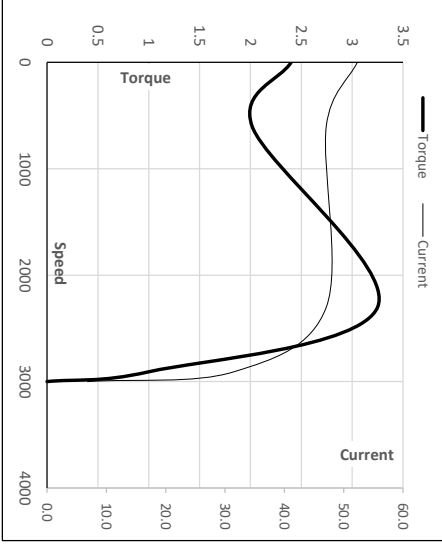
Motor Load Data

| Load Point   | NL    | 1/4FL | 1/2FL | 3/4FL | FL   | 5/4FL |
|--------------|-------|-------|-------|-------|------|-------|
| Current      | A     | 1.9   | 2.6   | 3.8   | 5.3  | 6.8   |
| Torque       | Nm    | 0.0   | 3.3   | 6.6   | 10.0 | 13.5  |
| Speed        | r/min | 3000  | 2978  | 2957  | 2934 | 2908  |
| Efficiency   | %     | 0.0   | 85.3  | 89.1  | 88.1 | 88.1  |
| Power Factor | %     | 11.0  | 65.6  | 83.0  | 90.0 | 93.0  |

Performance vs Load Chart



Starting Characteristics Chart



Motor Speed Torque Data

| Load Point | LR    | P-Up | BD   | Rated | NL   |      |
|------------|-------|------|------|-------|------|------|
| Speed      | r/min | 0    | 600  | 2301  | 2908 | 3000 |
| Current    | A     | 52.3 | 47.1 | 31.5  | 6.8  | 1.9  |
| Torque     | pu    | 2.4  | 2.0  | 3.3   | 1    | 0    |

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

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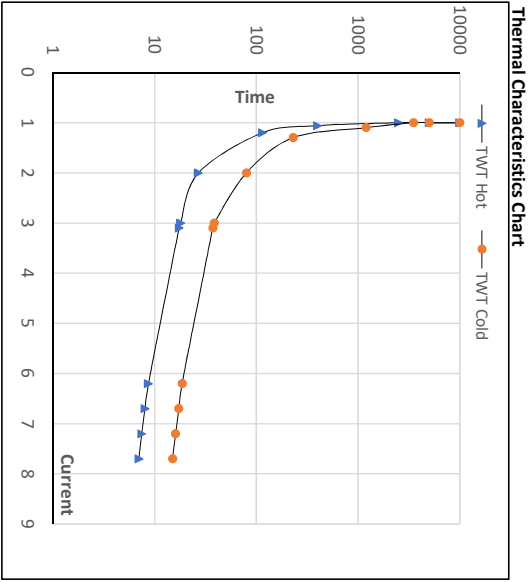


**Model No.** TCA0041A3111GACD01

| Enclosure | U<br>[V] | Δ / Y<br>Conn | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[rpm] | T<br>[kgm] | T<br>[Nm] | IE<br>Class | Amb<br>[°C] | Duty | Elevation<br>[m] | Inertia<br>[kg·m <sup>2</sup> ] | Weight<br>[kg] |
|-----------|----------|---------------|-----------|-----------|-----------|----------|------------|------------|-----------|-------------|-------------|------|------------------|---------------------------------|----------------|
| TEFC      | 415      | Δ             | 50        | 4         | 5.5       | 6.8      | 2908       | 1.37       | 13.46     | IE3         | 50          | S1   | 1000             | 0.0117                          | 50             |

**Motor Speed Torque Data**

| Load     | FL | $I_1$ | $I_2$ | $I_3$ | $I_4$ | $I_5$ | LR  |     |
|----------|----|-------|-------|-------|-------|-------|-----|-----|
| TWT Hot  | s  | 10000 | 27    | 18    | 16    | 13    | 10  | 7   |
| TWT Cold | s  | 10000 | 80    | 39    | 35    | 30    | 22  | 15  |
| Current  | pu | 1     | 2     | 3     | 4     | 5     | 5.5 | 7.7 |



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

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