PRODUCT INFORMATION PACKET

Model No: TCA0224A3111GACD01 Catalog No: TCA0224A3111GACD01 Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 225M Frame, TEFC



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Product Information Packet: Model No: TCA0224A3111GACD01, Catalog No:TCA0224A3111GACD01 Cast Iron Motor, 30 HP, 3 Ph, 50 Hz, 415 V, 750 RPM, 225M Frame, TEFC

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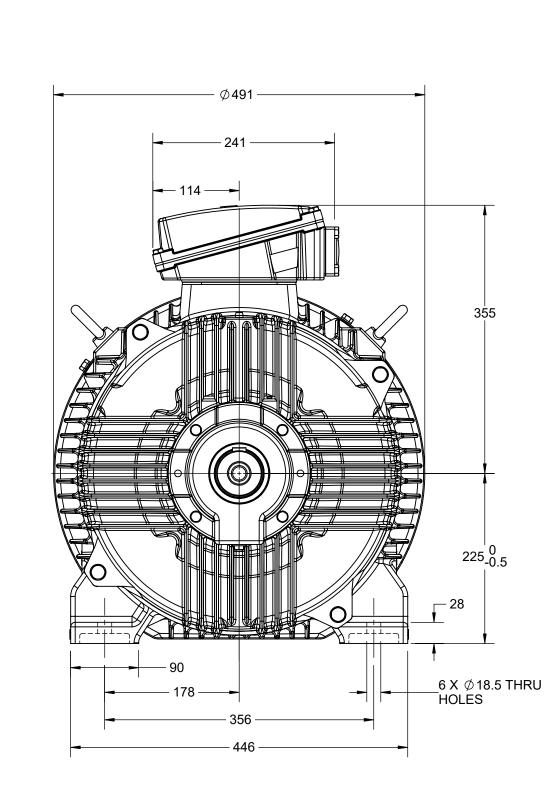
Nameplate Specifications

| Output HP | 30 Hp | Output KW | 22.0 kW |
|--|-----------------------|---|--------------------------------------|
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 43.3 A | Speed | 738 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 90.6 % | Power Factor | 0.78 |
| Duty | S1 | Insulation Class | F |
| | | | |
| Frame | 225M | Enclosure | Totally Enclosed Fan Cooled |
| Frame Thermal Protection | 225M No Protection | Enclosure Ambient Temperature | Totally Enclosed Fan Cooled 50 °C |
| | | | |
| Thermal Protection | No Protection | Ambient Temperature | 50 °C |
| Thermal Protection Drive End Bearing Size | No Protection 6313 | Ambient Temperature Opp Drive End Bearing Size | 50 °C 6213 |

Technical Specifications

| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
|-----------------------|---------------|-----------------------|----------------|
| Poles | 8 | Rotation | Bi-Directional |
| Mounting | B3 | Motor Orientation | Horizontal |
| Drive End Bearing | C3 | Opp Drive End Bearing | СЗ |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 862 mm | Frame Length | 425 mm |
| Shaft Diameter | 60 mm | Shaft Extension | 140 mm |
| Assembly/Box Mounting | Тор | | |
| Connection Drawing | 8442000085 | Outline Drawing | 0222500462 |

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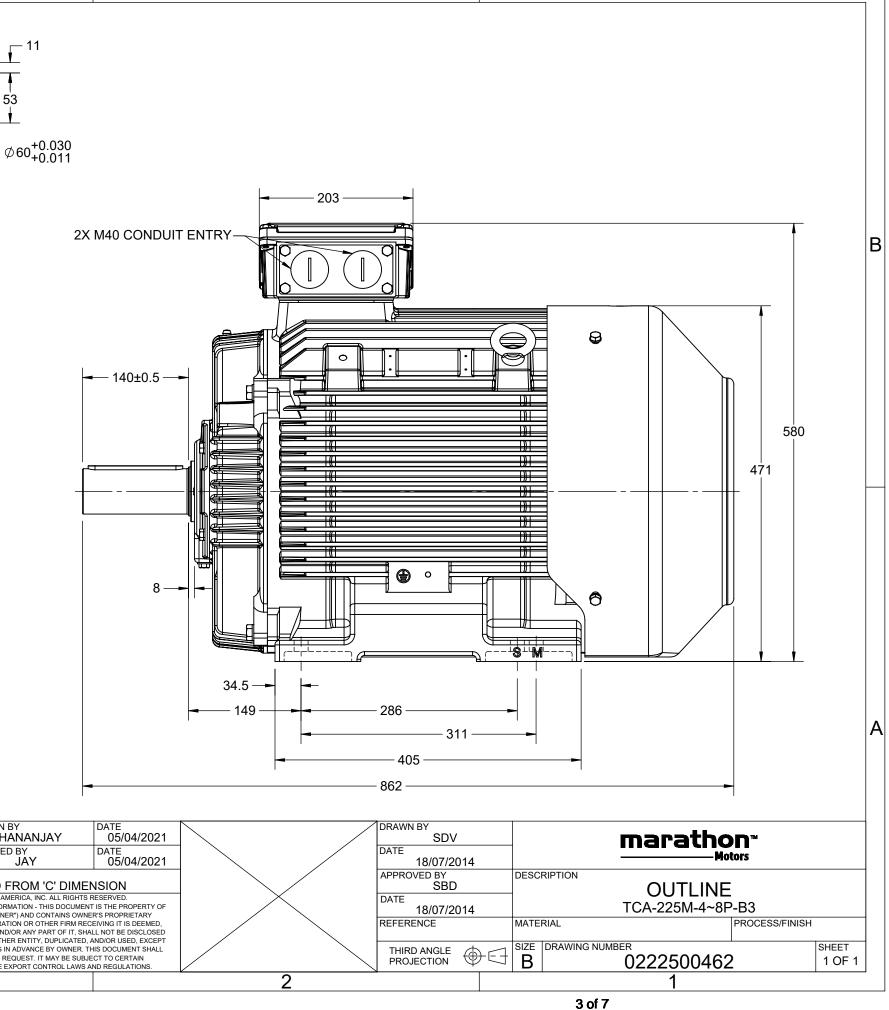
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Model No. TCA0224A3111GACD01

| 415 Δ 50 22 30 43.3 738 289.41 IE3 - 90.6 90.6 91 0.78 0.72 0.6 5.3 1.8 2.3 Motor type TCA | U | Δ/Υ | f | Р | Р | 1 | n | т | IE | 9 | 6 EFF at | load | | PF | at_lo | ad | I _A /I _N | T_A/T_N | $T_{\rm K}/T_{\rm N}$ |
|--|---------|-----------|-----------|----------|-----------|-------------|-------------|--------|-------|-------|------------|-----------|---------|----------|-------|----------|--------------------------------|-----------|-----------------------|
| Motor type TCA Degree of protection IP 55 inclosure TEFC Mounting type IM B3 crame size 225M Mounting type IM B3 buty S1 Cooling method IC 411 voltage variation * ± 10% Gross weight - approx. A09 kt combined variation * ± 0% Motor inertia 1.0453 kgm combined variation * 10% Outy S22 mm, begree of protection IP 55 Motor weight - approx. A09 kt combined variation * ± 0% Motor inertia 1.0453 kgm consider variation * 10% Vibration level 2.2 mm, voltage variation * 1.0 No ise level (1meter distance from motor) 61 db(/////////////////////////////////// | (∨) | Conn | [Hz] | [kW] | [hp] | [A] | [RPM] | [Nm] | Class | 5/4FL | FL | 3/4FL | 1/2FL | FL | 3/4FL | 1/2FL | [pu] | [pu] | [pu] |
| Andre rypDescriptionFrame MaterialCast IronIM B3Frame MaterialCast IronIC 411Frame MaterialCast IronIC 411Frame MaterialCast IronIC 411Frame MaterialS1Motor weight - approx.409kVoltage variation *± 10%Gross weight - approx.409kFrequency variation *± 0%Load inertiaCustomer to ProvideCombined variation *10%Load inertiaCustomer to ProvideService factor1.0No. of starts hot/cold/Equally spread2/3/4Service factor1.0No. of starts hot/cold/Equally spread2/3/4Service factor1.00meterStarting methodDOLNuitude above sea level1000meterType of couplingDirectHutidue above sea level1000meterStandard rotationClockwise form DEGas groupNACascesoriesAccessoriesAccessory - 1-Accessory - 2-Accessory - 2Accessory - 3Temperature classGa13 C3 / 6213 C3De / NDE bearingGa13 C3 / 6213 C3De / NDE bearingGa13 C3 / 6213 C3De / NDE bearingGa13 C3 / 6213 C3Up for the methodRegreasableMaximum cable size/conduit size1R x 3C x 50mm²/2 x M40 x 1.5 | 415 | Δ | 50 | 22 | 30 | 43.3 | 738 | 289.41 | IE3 | - | 90.6 | 90.6 | 91 | 0.78 | 0.72 | 0.6 | 5.3 | 1.8 | 2.3 |
| Andre rypDescriptionFrame MaterialCast IronIM B3Frame MaterialCast IronIC 411Frame MaterialCast IronIC 411Frame MaterialCast IronIC 411Frame MaterialS1Motor weight - approx.409kVoltage variation *± 10%Gross weight - approx.409kFrequency variation *± 0%Load inertiaCustomer to ProvideCombined variation *10%Load inertiaCustomer to ProvideService factor1.0No. of starts hot/cold/Equally spread2/3/4Service factor1.0No. of starts hot/cold/Equally spread2/3/4Service factor1.00meterStarting methodDOLNuitude above sea level1000meterType of couplingDirectHutidue above sea level1000meterStandard rotationClockwise form DEGas groupNACascesoriesAccessoriesAccessory - 1-Accessory - 2-Accessory - 2Accessory - 3Temperature classGa13 C3 / 6213 C3De / NDE bearingGa13 C3 / 6213 C3De / NDE bearingGa13 C3 / 6213 C3De / NDE bearingGa13 C3 / 6213 C3Up for the methodRegreasableMaximum cable size/conduit size1R x 3C x 50mm²/2 x M40 x 1.5 | | | | | | | | | | | | | | | | | | | |
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| Aution and a stand and a s | | size | | | | | I | | | | | • • | | | | | | | kg |
| Trequency variation *± 5%Load inertiaCustomer to ProvideCombined variation *10%Load inertiaCustomer to ProvideDesignNVibration level2.2mm,DesignNNoise level (1meter distance from motor)61dB(AService factor1.0Noi of starts hot/cold/Equally spread2/3/4dB(AAmbient temperature-20 to +50°CType of couplingDirectdB(ATemperature rise (by resistance)70 [Class B]KKMitthat time (hot/cold)15/30dB(AAutitude above sea level1000meterLa withstand time (hot/cold)15/30dB(AdB(AAutitude above sea level1000meterStandard rotationClockwise form DEdB(AAutitude above sea level1000meterStandard rotationClockwise form DEdB(AAccessoriesNAAccessoriesAccessoriesAccessoriesAccessoriesAccessoriesTemperature classNAAccessory - 1-Accessory - 2-Accessory - 2Accessory - 3-Terminal box positionTOPAutiriction methodRegreasableMaximum cable size/conduit size1R x 3C x 50mm²/2 x M40 x 1.5Maximum cable size/conduit size1R x 3C x 50mm²/2 x M40 x 1.5 | | | | | | | , | | | | | | orox. | | | | | | kg |
| Combined variationInformationCombined variation *10%DesignNDesignNService factor1.0nsulation classFAmbient temperature-20 to +50Cemperature rise (by resistance)70 [Class B]Attitude above sea level1000Autitude above sea level1000Accessories2100Autitude above sea level1000Accessory - 1-Accessory - 2-Accessory - 3-Accessory - 3-Autitude above sea level110 × 30 × 50mm²/2 x M40 x 1.5De / NDE bearing6313 C3 / 6213 C3Autitude above sea level110 × 30 × 50mm²/2 x M40 x 1.5 </td <td>U</td> <td></td> <td>C</td> <td></td> <td>1.</td> <td>kgm⁻</td> | U | | | | | | | | | | | | | | | C | | 1. | kgm ⁻ |
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| And output of the distribution of the distributication of the distribution of the distribu | Altitud | e above | sea lev | el | | 1000 | | | meter | D | irection o | of rotati | on | | | В | i-directional | | |
| Gas groupNAAccessoriesGas groupNAAccessory - 1Temperature classNAAccessory - 2Rotor typeAluminum die castAccessory - 2Bearing typeAnti-friction ball bearingAccessory - 3DE / NDE bearing6313 C3 / 6213 C3Terminal box positionubrication methodRegreasableMaximum cable size/conduit size | Hazard | lous area | a classif | fication | | NA | | | | St | andard r | otation | | | | Cloc | kwise form DI | Ξ | |
| Temperature classNAAccessory - 1-Rotor typeAluminum die castAccessory - 2-Bearing typeAnti-friction ball bearingAccessory - 3-DE / NDE bearing6313 C3 / 6213 C3Terminal box positionTOPJubrication methodRegreasableMaximum cable size/conduit size1R x 3C x 50mm²/2 x M40 x 1.5 | | Zone cl | assifica | tion | | NA | | | | P | aint shad | le | | | | | RAL 5014 | | |
| Aluminum die cast Accessory - 2 - Bearing type Anti-friction ball bearing Accessory - 3 - DE / NDE bearing 6313 C3 / 6213 C3 Terminal box position TOP Jubrication method Regreasable Maximum cable size/conduit size 1R x 3C x 50mm²/2 x M40 x 1.5 | | Gas gro | up | | | NA | | | | A | ccessorie | es | | | | | | | |
| Bearing type Anti-friction ball bearing Accessory - 3 DE / NDE bearing 6313 C3 / 6213 C3 Lubrication method Regreasable | | Temper | rature o | class | | NA | | | | | Ac | cessory | - 1 | | | | - | | |
| DE / NDE bearing 6313 C3 / 6213 C3 Terminal box position TOP Lubrication method Regreasable Maximum cable size/conduit size 1R x 3C x 50mm²/2 x M40 x 1.5 | Rotor t | ype | | | Alı | uminum c | lie cast | | | | Ac | cessory | - 2 | | | | - | | |
| ubrication method Regreasable Maximum cable size/conduit size 1R x 3C x 50mm ² /2 x M40 x 1.5 | Bearin | g type | | | Anti- | friction ba | all bearing | | | | Ac | cessory | - 3 | | | | - | | |
| | DE / NI | DE beari | ng | | 63 | 13 C3/6 | 213 C3 | | | Т | erminal b | ox posit | ion | | | | TOP | | |
| Type of grease Shell Gadus S5 V100 or Equivalent Auxiliary terminal box NA | Lubrica | ation me | thod | | | Regrease | able | | | N | laximum | cable si | ze/cond | uit size | 1R | x 3C x 5 | 50mm²/2 x M4 | 0 x 1.5 | |
| | Type o | f grease | | Sh | nell Gadu | us S5 V10 |) or Equiv | alent | | A | uxiliary t | erminal | box | | | | NA | | |

 I_A/I_N - Locked Rotor Current / Rated Current

 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 | Europe | China | India | Aus/Nz | Brazil | Global IEC |
|------------|--------|-------|-----------------|--------|--------|------------|
| Standards | - | - | IS 12615 : 2018 | - | - | - |



 $T_{\rm K}/T_{\rm N}$ - Breakdown Torque / Rated Torque

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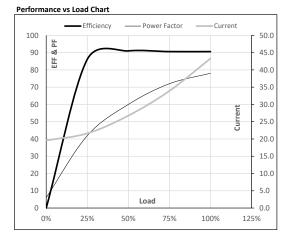


Model No. TCA0224A3111GACD01

| Enclosure | U | Δ / Y | f | Р | Р | I | n | Т | Т | IE | Amb | Duty | Elevation | Inertia | Weight |
|-----------|-----|--------------|------|------|------|------|-------|-------|--------|-------|------|------|-----------|----------------------|--------|
| | (V) | Conn | [Hz] | [kW] | [hp] | [A] | [RPM] | [kgm] | [Nm] | Class | [°C] | | [m] | [kg-m ²] | [kg] |
| TEFC | 415 | Δ | 50 | 22 | 30.0 | 43.3 | 738 | 29.51 | 289.41 | IE3 | 50 | S1 | 1000 | 1.0453 | 378.6 |
| | | | | | | | | | | | | | | | |

Motor Load Data

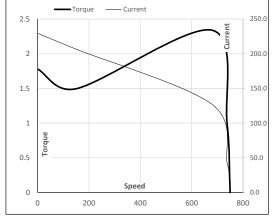
| Load Point | | NL | 1/4FL | 1/2FL | 3/4FL | FL | 5/4FL |
|--------------|-------|------|-------|-------|-------|-------|-------|
| Current | Α | 19.6 | 21.6 | 26.8 | 33.9 | 43.3 | |
| Torque | Nm | 0.0 | 71.5 | 143.5 | 216.1 | 289.4 | |
| Speed | r/min | 750 | 747 | 745 | 742 | 738 | |
| Efficiency | % | 0.0 | 86.1 | 91.0 | 90.6 | 90.6 | |
| Power Factor | % | 6.0 | 41.9 | 60.0 | 72.0 | 78.0 | |



Motor Speed Torque Data

| Load Point | | LR | P-Up | BD | Rated | NL | |
|------------|-------|-------|-------|-------|-------|------|--|
| Speed | r/min | 0 | 150 | 679 | 738 | 750 | |
| Current | А | 229.6 | 206.6 | 127.3 | 43.3 | 19.6 | |
| Torque | pu | 1.8 | 1.5 | 2.3 | 1 | 0 | |

Starting Characteristics Chart



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

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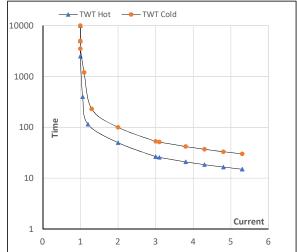
Model No. TCA0224A3111GACD01

| Enclosure | U | Δ / Y | f | Р | Р | Ι | n | Т | Т | IE | Amb | Duty | Elevation | Inertia | Weight |
|-----------|-----|--------------|------|------|------|------|-------|-------|--------|-------|------|------|-----------|----------------------|--------|
| | (V) | Conn | [Hz] | [kW] | [hp] | [A] | [rpm] | [kgm] | [Nm] | Class | [°C] | | [m] | [kg-m ²] | [kg] |
| TEFC | 415 | Δ | 50 | 22 | 30 | 43.3 | 738 | 29.49 | 289.41 | IE3 | 50 | S1 | 1000 | 1.0453 | 379 |

Motor Speed Torque Data

| Load | | FL | I_1 | l ₂ | I_3 | I_4 | I_5 | LR |
|----------|----|-------|-------|----------------|-------|-------|-------|-----|
| TWT Hot | s | 10000 | 50 | 27 | 20 | 18 | 16 | 15 |
| TWT Cold | s | 10000 | 100 | 53 | 40 | 36 | 31 | 30 |
| Current | pu | 1 | 2 | 3 | 4 | 4.5 | 5 | 5.3 |

Thermal Characteristics Chart



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

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