## PRODUCT INFORMATION PACKET

Model No: SCA2P23A3111GAAD01
Catalog No: SCA2P23A3111GAAD01
2.2kW, General Purpose Low Voltage IEC Motor, 3 phase, 6 Pole, $415 \mathrm{~V}, \mathrm{~B} 3,50 \mathrm{~Hz}, 81.8 \%$, 112 M Frame, TEFC Cast Iron IE2 Efficiency Motors


Product Information Packet: Model No: SCA2P23A3111GAAD01, Catalog No:SCA2P23A3111GAAD01 2.2kW, General Purpose Low Voltage IEC Motor, 3 phase, 6 Pole, 415V, B3, 50Hz, 81.8\%, 112M Frame, TEFC

Nameplate Specifications

| Output HP | 3 Hp | Output KW | 2.2 kW |
| :---: | :---: | :---: | :---: |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 4.8 A | Speed | 963 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 81.8 \% | Power Factor | 0.77 |
| Duty | S1 | Insulation Class | F |
| Frame | 112M | Enclosure | Totally Enclosed Fan Cooled |
| Ambient Temperature | $50^{\circ} \mathrm{C}$ | 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 | $\mathbf{6}$ | Rotation | Bi-Directional |
| Mounting | B3 | Motor Orientation | Horizontal |
| Drive End Bearing | $2 z-C 3$ | Opp Drive End Bearing | $\mathbf{2 z - C 3}$ |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 399 mm | Frame Length | $\mathbf{1 7 4 ~ m m ~}$ |
| Shaft Diameter | $\mathbf{2 8 ~ m m}$ | Shaft Extension | $\mathbf{6 0 ~ m m ~}$ |
| Assembly/Box Mounting | TOP | Outline Drawing |  |
| Connection Drawing | 8442000085 | $\mathbf{0 2 1 1 2 0 0 5 4 7}$ |  |

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$\mathrm{I}_{\mathrm{A}} / \mathrm{I}_{\mathrm{N}}$ - Locked Rotor Current / Rated Current
$T_{K} / T_{N}$ - Breakdown Torque / Rated Torque
$\mathrm{T}_{A} / \mathrm{T}_{\mathrm{N}}$ - 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 $/ \mathrm{Nz}$ | Brazil | Global IEC |

Efficie
IS 12615 : 20

| Standards $\quad-$ | IS 12615:2018 | - | - |  |
| :--- | :--- | :--- | :--- | :--- |

## marathon

Model No. SCA2P23A3111GAADO1

| Enclosure | $\checkmark$ | A/Y | $f$ | ${ }^{\text {P }}$ | ${ }^{\text {P }}$ | 1 | n | T | ${ }^{\top}$ | ${ }^{\text {IE }}$ | Amb | Duty | Elevation | Inert | Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (v) | conn | [Hz] | [kW] | [hp] | (A) | [RPM] | [kgm] | [ Nm ] | Class | [ $\left.{ }^{\circ} \mathrm{C}\right]$ |  | [m] | $\left[\mathrm{kg} \cdot \mathrm{m}^{2}\right]$ | [kg] |
| TEFC | 415 | r | 50 | 2.2 | 3.0 | 4.8 | 963 | 2.26 | 22.19 | IE2 | 50 | s1 | 1000 | 0.0195 |  |


| Motor Load Data |  |  |  |  |  |  |  |
| :--- | ---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |
| Load Point |  | $1 / 4 \mathrm{FL}$ | $1 / 2 \mathrm{FL}$ | $3 / 4 \mathrm{FL}$ | FL | $5 / 4 \mathrm{FL}$ |  |
| Current | A | 2.7 | 2.8 | 3.6 | 4.2 | 4.8 |  |
| Toraue | Nm | 0.0 | 5.4 | 10.9 | 16.5 | 22.2 |  |
| Speed | $\mathrm{r} / \mathrm{min}$ | 1000 | 991 | 983 | 973 | 963 |  |
| Efficiency | $\%$ | 0.0 | 73.2 | 81.8 | 81.8 | 81.8 |  |
| Power Factor | $\%$ | 10.1 | 38.2 | 55.3 | 69.5 | 77.5 |  |




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

## marathon

Model No. SCA2P23A3111GAADO1

| Enclosure | $\begin{aligned} & u \\ & (v) \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \Delta / Y \\ & \text { Conn } \\ & \hline \end{aligned}$ | $\begin{gathered} \mathrm{f} \\ {[\mathrm{~Hz}]} \end{gathered}$ | $\begin{gathered} p \\ {[\mathrm{~kW}]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{ln}]} \end{gathered}$ | $\begin{gathered} 1 \\ {[A]} \\ {[A]} \end{gathered}$ | $\begin{gathered} \mathrm{n} \\ {[\mathrm{rrm}]} \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ {[\mathrm{kgm}]} \\ \hline \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{Nm}]} \end{gathered}$ | $\begin{gathered} \text { IE } \\ \text { Class } \end{gathered}$ | $\begin{aligned} & \text { Amb } \\ & {\left[^{\circ} \mathrm{C}\right]} \end{aligned}$ | Duty | Elevation [m] | $\begin{aligned} & \text { Inertia } \\ & {\left[\mathrm{kg}-\mathrm{m}^{2}\right]} \\ & \hline \end{aligned}$ | $\begin{gathered} \hline \text { Weight } \\ {[\mathrm{kg}]} \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | Y | 50 | 2.2 | 3.0 | 4.8 | 963 | 2.26 | 22.19 | IE2 | 50 | S1 | 1000 | 0.0195 | 46 |




