## PRODUCT INFORMATION PACKET

Model No: SCA1323A3123GAAD01
Catalog No: SCA1323A3123GAAD01
132 kW , General Purpose Low Voltage IEC Motor, 3 phase, 6 Pole, 415V, B5, 50Hz, 94.6\%, 315L Frame, TEFC Cast Iron IE2 Efficiency Motors


Product Information Packet: Model No: SCA1323A3123GAAD01, Catalog No:SCA1323A3123GAAD01 132kW, General Purpose Low Voltage IEC Motor, 3 phase, 6 Pole, 415V, B5, 50Hz, 94.6\%, 315L Frame, TEFC

## Nameplate Specifications

| Output HP | 175 Hp | Output KW | 132.0 kW |
| :---: | :---: | :---: | :---: |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 233.9 A | Speed | 991 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 94.6 \% | Power Factor | 0.83 |
| Duty | S1 | Insulation Class | F |
| Frame | 315L | Enclosure | Totally Enclosed Fan Cooled |
| Ambient Temperature | $50^{\circ} \mathrm{C}$ | Drive End Bearing Size | 6319 |
| Opp Drive End Bearing Size | 6319 | 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 | B5 | Motor Orientation | Horizontal |
| Drive End Bearing | C3 | Opp Drive End Bearing | C3 |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 1317 mm | Frame Length | $\mathbf{8 4 0 ~ m m ~}$ |
| Shaft Diameter | 80 mm | Shaft Extension | $\mathbf{1 7 0 ~ m m ~}$ |
| Assembly/Box Mounting | SIDE | Outline Drawing |  |
| Connection Drawing | 8442000085 | $\mathbf{0 2 3 1 5 0 1 3 9 6}$ |  |

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|  | $\begin{aligned} & \hline \Delta / \mathrm{Y} \\ & \text { Conn } \\ & \hline \end{aligned}$ | f | $\begin{gathered} P \\ {[k w]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{hp]}]} \end{gathered}$ | I[ ${ }^{\text {a }}$ [ | $\begin{gathered} n \\ {[R P M]} \end{gathered}$ | $\begin{gathered} \hline \mathrm{T} \\ {[\mathrm{Nm}]} \end{gathered}$ | $\begin{gathered} \text { IE } \\ \text { Class } \end{gathered}$ | \% EFF at _ load |  |  |  | PF at_load |  |  | $\mathrm{I}_{\mathrm{A}} / \mathrm{N}_{\mathrm{N}}$$[\mathrm{pu}$ | $\begin{array}{ll} T_{A} / T_{N} & T_{k} / T_{N} \\ {[p u]} & {[p u]} \\ \hline \end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (V) |  | [Hz] |  |  |  |  |  |  | 5/4FL | FL | 3/4FL | 1/2FL |  | 3/4FL 1/2FL |  |  |  |  |
| 415 | $\Delta$ | 50 | 132 | 175 | 233.9 | 991 | 1258.5 | IE2 |  | 94.6 | 94.6 | 95.2 | 0.83 | 0.80 | 0.71 | 5.0 | 1.9 | 2.2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


$I_{A} / I_{N}-$ Locked Rotor Current / Rated Current
$T_{K} / T_{N}$ - Breakdown Torque / Rated Torque
$\mathrm{T}_{\mathrm{A}} / T_{\mathrm{N}}$ - 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

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

## marathon

Model No. SCA1323A3123GAADO1

| Enclosure | u | $\Delta / Y$ | f | P | P | 1 | n | T | ${ }^{\top}$ | IE | Amb | Duty | Elevation | Inertia | Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (v) | conn | [ Hz ] | [kW] | [hp] | [A] | [RPM] | [kgm] | [ Nm ] | Class | $\left.{ }^{\circ} \mathrm{C}\right]$ |  | [m] | $\left[\mathrm{kg}-\mathrm{m}^{2}\right]$ | [kg] |
| TEFC | 415 | $\triangle$ | 50 | 132 | 175 | 233.9 | 991 | 128.33 | 1258.4 | 1E2 | 50 | s1 | 1000 | 5.6049 | 1088 |


| bint |  | NL | $\begin{aligned} & 1 / 4 \mathrm{LL} \end{aligned}$ | $\frac{1 / 2 F L}{139.7}$ | $\begin{aligned} & 3 / 4 \mathrm{FL} \\ & 185.4 \end{aligned}$ | $\frac{\mathrm{FLL}}{233.9}$ | 5/4FL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current | A | 79.3 |  |  |  |  |  |
| Toraue | Nm | 0.0 | 312.3 | 626.1 | 941.3 | 1258.5 |  |
| Speed | r/min | 1000 | 998 | 996 | 993 | 991 |  |
| Efficiency | \% | 0.0 | 92.9 | 95.2 | 94.6 | 94.6 |  |
| Power Factor | \% | 4.0 | 51.7 | 71.0 | 80.0 | 83.0 |  |




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

## marathon

Model No. SCA1323A3123GAADO1

| Enclosure | $\begin{aligned} & u \\ & (\mathrm{v}) \end{aligned}$ | $\begin{aligned} & \Delta / Y \\ & \text { Conn } \end{aligned}$ | $\begin{gathered} \mathrm{f} \\ {[\mathrm{~Hz}]} \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{kw}]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[h p]} \end{gathered}$ | $\begin{gathered} 1 \\ {[A]} \end{gathered}$ | $\begin{gathered} \mathrm{n} \\ {[\mathrm{rpm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{kgm}]} \end{gathered}$ | $\begin{gathered} \hline \mathrm{T} \\ {[\mathrm{Nm}]} \\ \hline \end{gathered}$ | $\begin{gathered} \hline \mathrm{IE} \\ \text { Class } \end{gathered}$ | Amb <br> $\left[{ }^{\circ} \mathrm{C}\right]$ | Duty | Elevation <br> [m] | Inertia $\left[\mathrm{kg}-\mathrm{m}^{2}\right]$ | Weight [kg] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | $\Delta$ | 50 | 132 | 175 | 233.9 | 991 | 128.33 | 1258.46 | IE2 | 50 | S1 | 1000 | 5.6049 | 1088 |

[^0]
$\qquad$


[^0]:    Motor Speed Torque Data

    | load | $\mathrm{I}_{1}$ | $\mathrm{I}_{2}$ | $\mathrm{I}_{3}$ | $\mathrm{I}_{4}$ | $\mathrm{I}_{5}$ | LR |
    | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
    | WT Hot | 10000 | 38 | 25 | 21 | 19 | 17 | $\begin{array}{lllllllll}\text { TWT Cold } & \text { s } & 10000 & 75 & 50 & 43 & 38 & 33 & 30\end{array}$ $\begin{array}{lllllllll}\text { Current } & \text { pu } & 1 & 2 & 3 & 3.5 & 4 & 4.5 & 5\end{array}$

