## PRODUCT INFORMATION PACKET

Model No: SCA3751A3113GAAD01
Catalog No: SCA3751A3113GAAD01
375 kW , General Purpose Low Voltage IEC Motor, 3 phase, 2 Pole, $415 \mathrm{~V}, \mathrm{~B} 3,50 \mathrm{~Hz}, 95.0 \%$, 355L Frame, TEFC Cast Iron IE2 Efficiency Motors


Product Information Packet: Model No: SCA3751A3113GAAD01, Catalog No:SCA3751A3113GAAD01 375kW, General Purpose Low Voltage IEC Motor, 3 phase, 2 Pole, 415V, B3, 50Hz, 95.0\%, 355L Frame, TEFC

## Nameplate Specifications

| Output HP | 503 Hp | Output KW | 375.0 kW |
| :---: | :---: | :---: | :---: |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 596.9 A | Speed | 2980 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 95 \% | Power Factor | 0.92 |
| Duty | S1 | Insulation Class | F |
| Frame | 355L | Enclosure | Totally Enclosed Fan Cooled |
| Ambient Temperature | $50^{\circ} \mathrm{C}$ | Drive End Bearing Size | 6317 |
| Opp Drive End Bearing Size | 6317 | UL | No |
| CSA | No | CE | Yes |
| IP Code | 55 |  |  |

Technical Specifications

| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| :--- | :--- | :--- | :--- |
| Poles | $\mathbf{2}$ | Rotation | Bi-Directional |
| Mounting | B3 | Motor Orientation | Horizontal |
| Drive End Bearing | C3 | Opp Drive End Bearing | C3 |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 1512 mm | Frame Length | $\mathbf{1 0 1 0 ~ m m ~}$ |
| Shaft Diameter | 75 mm | Shaft Extension | $\mathbf{1 4 0 ~ m m ~}$ |
| Assembly/Box Mounting | SIDE | Connection Drawing |  |
| Outline Drawing | $\mathbf{0 2 3 5 5 0 2 2 9 5}$ |  | $\mathbf{8 4 4 2 0 0 0 0 8 5}$ |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:16/01/2020



4 of 7

Model No. SCA3751A3113GAAD01

|  | $\begin{aligned} & \hline \Delta / \mathrm{Y} \\ & \text { Conn } \\ & \hline \end{aligned}$ | f | $\begin{gathered} P \\ {[k w]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{hp]}]} \end{gathered}$ | I[ ${ }^{\text {] }}$ [ | $\begin{gathered} \left.{ }_{[R P M}^{n}\right] \end{gathered}$ | $\begin{gathered} \hline \mathrm{T} \\ {[\mathrm{Nm}]} \end{gathered}$ | $\begin{gathered} \text { IE } \\ \text { Class } \end{gathered}$ | \% EFF at _ load |  |  |  | PF at_load |  |  | I/ $/{ }_{\text {N }}$[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 | 375 | 503 | 596.9 | 2980 | 1199.3 | IE2 |  | 95.0 | 95.0 | 95.2 | 0.92 | 0.91 | 0.88 | 5.5 | 1.9 | 2.5 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


$I_{A} / I_{N}-$ 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. SCA3751A3113GAAD01

| Enclosure | U | $\Delta / Y$ | $\underset{[\mathrm{Hz]}}{\substack{f}}$ | $\stackrel{\text { p }}{\text { fkl }}$ | $\begin{gathered} p \\ {[h p]} \end{gathered}$ | $\begin{gathered} \hline 1 \\ {[A]} \end{gathered}$ | n | ${ }_{\text {[kgm/ }}$ | ${ }^{\top}{ }^{\top}$ | $\mathrm{IE}$ | Amb | Duty | Elevation | ${ }_{\text {Inertia }}$ | Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | $\Delta$ | 50 | 375 | 503 | 596.9 | 2980 | 122.29 | 1199.29 | E2 | 50 | ${ }_{51}$ | 1000 |  | 1974 |


| Load Point |  | NL | 1/4FL | 1/2FL | 3/4FL | FL | 5/4FL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current | A | 112.0 | 184.2 | 322.5 | 465.5 | 596.9 |  |
| Torque | Nm | 0.0 | 29.0 | 598.8 | 89.7 | 1199.3 |  |
| Speed | r/min | 3000 | 2995 | 2991 | 2986 | 2980 |  |
| Efficiency | \% | 0.0 | 92.4 | 95.2 | 95.0 | 95.0 |  |
| Power Factor | \% | 8.8 | 76.7 | 88.0 | 91.0 | 92.0 |  |




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

## marathon

Model No. SCA3751A3113GAADO1

| Enclosure | $\begin{aligned} & u \\ & (v) \end{aligned}$ | $\begin{aligned} & \Delta / Y \\ & \text { Conn } \end{aligned}$ | $\begin{gathered} \mathrm{f} \\ {[\mathrm{Hz]}]} \end{gathered}$ | $\begin{gathered} p \\ {[\mathrm{~kW}]} \end{gathered}$ | $\begin{gathered} \text { p } \\ {[h p]} \end{gathered}$ | $\begin{gathered} \hline 1 \\ {[A]} \\ \hline \end{gathered}$ | $\begin{gathered} n \\ {[\text { rpm }]} \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ {[\mathrm{kgm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{N} m]} \end{gathered}$ | $\begin{array}{c\|c\|} \hline \text { IE } \\ \text { Class } \end{array}$ | Amb <br> $\left[^{\circ} \mathrm{C}\right]$ | Duty | Elevation <br> [m] | Inertia <br> $\left[\mathrm{kg}-\mathrm{m}^{2}\right]$ | Weight [kg] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | $\Delta$ | 50 | 375 | 503 | 596.9 | 2980 | 122.29 | 1199.29 | IE2 | 50 | S1 | 1000 | 5.2214 | 1974 |



