## PRODUCT INFORMATION PACKET

Model No: SCA3P71A3141GAAD01
Catalog No: SCA3P71A3141GAAD01
3.7 kW , General Purpose Low Voltage IEC Motor, 3 phase, 2 Pole, 415 V , B35, $50 \mathrm{~Hz}, 85.5 \%$, 100L Frame, TEFC Cast Iron IE2 Efficiency Motors


Product Information Packet: Model No: SCA3P71A3141GAAD01, Catalog No:SCA3P71A3141GAAD01 3.7kW, General Purpose Low Voltage IEC Motor, 3 phase, 2 Pole, 415V, B35, 50Hz, 85.5\%, 100L Frame, TEFC

## Nameplate Specifications

| Output HP | 5 Hp | Output KW | 3.7 kW |  |
| :--- | :--- | :--- | :--- | :--- |
| Frequency | 50 Hz | Voltage | 415 V |  |
| Current | 6.6 A | Speed | $\mathbf{2 8 7 4 \mathrm { rpm }}$ |  |
| Service Factor | 1 | Phase | 3 |  |
| Efficiency | $85.5 \%$ | Power Factor | 0.92 |  |
| Duty | $\mathbf{S 1}$ | Insulation Class | F |  |
| Frame | 100 L | Enclosure | Totally Enclosed Fan Cooled |  |
| Ambient Temperature | $50^{\circ} \mathrm{C}$ | Drive End Bearing Size | $\mathbf{6 2 0 6}$ |  |
| Opp Drive End Bearing Size | 6206 | UL | No | Yes |
| CSA | No | CE |  |  |
| IP Code | 55 |  |  |  |

Technical Specifications

| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| :--- | :--- | :--- | :--- |
| Poles | $\mathbf{2}$ | Rotation | Bi-Directional |
| Mounting | V1 | Motor Orientation | Horizontal |
| Drive End Bearing | $2 z-C 3$ | Opp Drive End Bearing | 2z-C3 |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 482 mm | Frame Length | $\mathbf{2 4 0 \mathrm { mm }}$ |
| Shaft Diameter | $\mathbf{2 8 ~ m m}$ | Shaft Extension | $\mathbf{6 0 ~ m m ~}$ |
| Assembly/Box Mounting | TOP | Connection Drawing |  |
| Outline Drawing | $\mathbf{0 2 1 0 0 0 0 5 1 2}$ |  | $\mathbf{8 4 4 2 0 0 0 0 8 5}$ |

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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 |

Efficiency
India
Standards $\quad$ is 12615:2018 ...

## marathon

Model No. SCA3P71A3141GAAD01

| Enclosure | $\checkmark$ | $\Delta / \mathrm{Y}$ | $f$ | ${ }^{\text {P }}$ | ${ }^{\text {P }}$ | 1 | n | T | ${ }^{\top}$ | ${ }^{1}$ | Amb | Duty | Elevation | Inertia | 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 | $\triangle$ | 50 | 3.7 | 5.0 | 6.6 | 2874 | 1.26 | 12.39 | IE2 | 50 | s1 | 1000 | 0.0044 |  |


| Load Point |  | $\begin{array}{\|c\|} \hline \mathrm{NL} \\ \hline 2.2 \end{array}$ | $\frac{1 / 4 \mathrm{FL}}{2.7}$ | $\frac{1 / 2 \mathrm{FL}}{3.9}$ | $\frac{3 / 4 \mathrm{FL}}{5.3}$ | $\frac{F L}{\frac{F L .}{6}}$ | 5/4FL |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current | A |  |  |  |  |  |  |
| Torque | Nm | 0.0 | 3.0 | 6.0 | 9.2 | 12.4 |  |
| Speed | $\mathrm{r} / \mathrm{min}$ | 3000 | 2970 | 2941 | 2910 | 2874 |  |
| Efficiency | \% | 0.0 | 81.8 | 86.6 | 85.5 | 85.5 |  |
| Power Factor | \% | 11.6 | 59.5 | 78.9 | 87.8 | 91.5 |  |




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

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Model No. SCA3P71A3141GAADO1

| Enclosure | $\begin{aligned} & u \\ & (\mathrm{~V}) \end{aligned}$ | $\begin{aligned} & \hline \Delta / \mathrm{Y} \\ & \text { Conn } \\ & \hline \end{aligned}$ | $\begin{gathered} f \\ {[\mathrm{~Hz}]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{~kW}]} \end{gathered}$ | $\begin{gathered} p \\ {[h p]} \end{gathered}$ | $\begin{gathered} 1 \\ {[A]} \\ {[A]} \end{gathered}$ | $\begin{gathered} \mathrm{n} \\ {[\mathrm{rpm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{kgm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{Nm}]} \end{gathered}$ | $\begin{gathered} \text { IE } \\ \text { Class } \end{gathered}$ | Amb $\left[{ }^{\circ} \mathrm{C}\right]$ | Duty | Elevation <br> [m] | Inertia $\left[\mathrm{kg}-\mathrm{m}^{2}\right]$ | weight [kg] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | $\Delta$ | 50 | 3.7 | 5.0 | 6.6 | 2874 | 1.26 | 12.39 | IE2 | 50 | S1 | 1000 | 0.0044 | 48 |

[^0]
$\qquad$


[^0]:    Motor Speed Torque Data

    | load | FL | $\mathrm{I}_{1}$ | $\mathrm{I}_{2}$ | $\mathrm{I}_{3}$ | $\mathrm{I}_{4}$ | $\mathrm{I}_{5}$ | LR |
    | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
    | WT Hot | 10000 | 25 | 14 | 12 | 10 | 8 | 6 | $\begin{array}{lllllllll}\text { TWT Cold } & \text { s } & 10000 & 45 & 24 & 20 & 15 & 13 & 10\end{array}$ | Current | pu | 1 | 2 | 3 | 4 | 5 | 5.5 | 7.1 |
    | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

