## PRODUCT INFORMATION PACKET

Model No: SCA0372A3121GAAD01
Catalog No: SCA0372A3121GAAD01
37 kW , General Purpose Low Voltage IEC Motor, 3 phase, 4 Pole, 415 V , B5, $50 \mathrm{~Hz}, 92.7 \%$, 225 S Frame, TEFC Cast Iron IE2 Efficiency Motors


Product Information Packet: Model No: SCA0372A3121GAAD01, Catalog No:SCA0372A3121GAAD01 37kW, General Purpose Low Voltage IEC Motor, 3 phase, 4 Pole, 415V, B5, 50Hz, 92.7\%, 225S Frame, TEFC

## Nameplate Specifications

| Output HP | 50 Hp | Output KW | 37.0 kW |
| :---: | :---: | :---: | :---: |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 64.4 A | Speed | 1479 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 92.7 \% | Power Factor | 0.86 |
| Duty | S1 | Insulation Class | F |
| Frame | 225S | Enclosure | Totally Enclosed Fan Cooled |
| Ambient Temperature | $50^{\circ} \mathrm{C}$ | Drive End Bearing Size | 6313 |
| Opp Drive End Bearing Size | 6213 | UL | No |
| CSA | No | CE | Yes |
| IP Code | 55 |  |  |

Technical Specifications

| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| :--- | :--- | :--- | :--- |
| Poles | $\mathbf{4}$ | 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 | 837 mm | Frame Length | $\mathbf{4 0 0 ~ m m ~}$ |
| Shaft Diameter | $\mathbf{6 0 ~ m m}$ | Shaft Extension | $\mathbf{1 4 0 ~ m m ~}$ |
| Assembly/Box Mounting | TOP | Connection Drawing |  |
| Outline Drawing | $\mathbf{0 2 2 2 5 0 0 8 9 7}$ |  | $\mathbf{8 4 4 2 0 0 0 0 8 5}$ |

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$I_{A} / I_{N}$ - 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 |

Efficienc
India

| Standards | IS 12615:2018 | - | - |  |
| :--- | :--- | :--- | :--- | :--- |

## marathon

Model No. SCA0372A3121GAADO1

| Enclosure | $\cup$ | $\Delta / Y$ | ${ }^{\text {f }}$ | ${ }^{\mathrm{P}}$ | ${ }^{\text {P }}$ | 1 | ${ }^{\text {n }}$ | ${ }^{\top}$ | ${ }^{\top}$ | ${ }^{1 E}$ | ${ }^{\text {Amb }}$ | Duty | Elevation | ${ }^{\text {Inertia }}$ | Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | (v) | conn | [ Hz$]$ | [kW] | [hp] | (A) | [RPM] | [kgm] | [ Nm$]$ | class | ${ }^{\circ} \mathrm{C}$, |  | [m] | $\left[\mathrm{kg}-\mathrm{m}^{2}\right]$ | [kg] |
| TEEC | 415 | $\triangle$ | 50 | 37 | 50 | 64.4 | 1479 | 24.58 | 241.02 | IE2 | 50 | s1 | 1000 | 0.5292 | 365 |


| Motor Load Data |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | :--- | :--- | :--- | :--- |
| Load Point |  | NL | $1 / 4 \mathrm{FL}$ | $1 / 2 \mathrm{FL}$ | $3 / 4 \mathrm{FL}$ | FL | $5 / 4 \mathrm{FL}$ |
| Current | A | 22.2 | 26.5 | 39.1 | 52.1 | 64.4 |  |
| Torque | Nm | 0.0 | 59.5 | 19.5 | 179.9 | 241.0 |  |
| Speed | $\mathrm{r} / \mathrm{min}$ | 1500 | 1495 | 1490 | 1485 | 1979 |  |
| Efficiency | $\%$ | 0.0 | 90.9 | 93.7 | 92.7 | 92.7 |  |
| Power Factor | $\%$ | 5.2 | 53.9 | 73.6 | 82.7 | 86.3 |  |
|  |  |  |  |  |  |  |  |




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

## marathon

Model No. SCA0372A3121GAADO1

| Enclosure | $\begin{aligned} & \text { U } \\ & (\mathrm{V}) \end{aligned}$ | $\begin{aligned} & \hline \Delta / \mathrm{Y} \\ & \text { Conn } \\ & \hline \end{aligned}$ | $\begin{gathered} f \\ {[\mathrm{Hz]}]} \end{gathered}$ | $\begin{gathered} \mathrm{P} \\ {[\mathrm{~kW}]} \end{gathered}$ | $\begin{gathered} p \\ {[h p]} \\ {[h]} \end{gathered}$ | $\begin{gathered} 1 \\ {[A]} \end{gathered}$ | $\begin{gathered} n \\ {[\mathrm{rpm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{kgm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{Nm}]} \end{gathered}$ | $\begin{gathered} \text { IE } \\ \text { Class } \end{gathered}$ | Amb <br> $\left.{ }^{\circ} \mathrm{C}\right]$ | Duty | Elevation <br> [m] | Inertia $\left[\mathrm{kg}-\mathrm{m}^{2}\right]$ | Weight [kg] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | $\Delta$ | 50 | 37 | 50 | 64.4 | 1479 | 24.58 | 241.02 | E2 | 50 | S1 | 1000 | 0.5292 | 365 |

[^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 |
    | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
    | WTH0t | 10000 | 75 | 21 |  |  |  |  | | TWT Cold | s | 10000 | 75 | 41 | 18 | 12 | 11 | 10 |
    | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | $\begin{array}{lllllllll}\text { Current } & \text { pu } & 1 & 2 & 3 & 4 & 5 & 5.5 & 6.2\end{array}$

