## PRODUCT INFORMATION PACKET

Model No: TCA7P54A3121GACD01
Catalog No: TCA7P54A3121GACD01
7.5 kW General Purpose Low Voltage IEC Motor, 3 phase, 750 RPM, 415 V , 160 L Frame, TEFC Cast Iron IE3 Efficiency Motors


Product Information Packet: Model No: TCA7P54A3121GACD01, Catalog No:TCA7P54A3121GACD01 7.5 kW General Purpose Low Voltage IEC Motor, 3 phase, 750 RPM, 415 V, 160L Frame, TEFC

## Nameplate Specifications

| Output HP | 10 Hp | Output KW | 7.5 kW |
| :--- | :--- | :--- | :--- |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 16.6 A | Speed | 728 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | $87.3 \%$ | Power Factor | 0.72 |
| Duty | $\mathrm{S1}$ | Insulation Class | F |
| Frame | 160 L | Enclosure | Totally Enclosed Fan Cooled |
| Ambient Temperature | $50^{\circ} \mathrm{C}$ | Drive End Bearing Size | $\mathbf{6 3 0 9}$ |
| Opp Drive End Bearing Size | 6209 | UL | No |
| CSA | No | CE | Yes |
| IP Code | 55 |  |  |

Technical Specifications

| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| :--- | :--- | :--- | :--- |
| Poles | $\mathbf{8}$ | Rotation | Bi-Directional |
| Mounting | B5 | 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 | $\mathbf{6 6 6 ~ m m}$ | Frame Length | $\mathbf{2 9 8 ~ m m ~}$ |
| Shaft Diameter | 42 mm | Shaft Extension | $\mathbf{1 1 0 ~ m m ~}$ |
| Assembly/Box Mounting | Top | Outline Drawing |  |
| Connection Drawing | 8442000085 |  | $\mathbf{0 2 1 6 0 0 0 4 4 3}$ |

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$T_{k} / T_{N}$ - Breakdown Torque / Rated Torque
note
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 $12615: 2018$ | - | - | - |

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| Motor Load Data |  |  |  |  |  |  |  |
| :--- | ---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | NL | $1 / 4 \mathrm{FL}$ | $1 / 2 \mathrm{FL}$ | $3 / 4 \mathrm{FL}$ | FL | $5 / 4 \mathrm{FL}$ |
| Load Point |  | 8.5 | 9.0 | 10.6 | 13.0 | 16.6 |  |
| Current | A | 8.0 |  |  |  |  |  |
| Torque | Nm | 0.0 | 24.0 | 48.2 | 72.8 | 98.0 |  |
| Speed | $\mathrm{r} / \mathrm{min}$ | 750 | 745 | 740 | 734 | 728 |  |
| Efficiency | $\%$ | 0.0 | 81.5 | 87.5 | 87.3 | 87.3 |  |
| Power Factor | $\%$ | 6.4 | 35.3 | 52.0 | 65.0 | 72.0 |  |
|  |  |  |  |  |  |  |  |


| Enclosure | $\begin{aligned} & \hline u \\ & \text { (v } \end{aligned}$ | $\Delta / Y$ | $\begin{gathered} \mathrm{f} \\ {[\mathrm{~Hz}]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{~kW}]} \end{gathered}$ | $\begin{gathered} \mathrm{p} \\ {[\mathrm{hp]}]} \end{gathered}$ | $\begin{gathered} 1 \\ {[\mathrm{~A}]} \end{gathered}$ | $\begin{gathered} \mathrm{n} \\ {[\text { RPM] }} \end{gathered}$ | $\begin{gathered} \mathrm{T} \\ {[\mathrm{kgm}]} \end{gathered}$ | $\begin{gathered} \top \\ {[\mathrm{Nm}]} \end{gathered}$ | $\begin{aligned} & \text { IE } \\ & \text { Class } \end{aligned}$ | Amb $\left.{ }^{\circ} \mathrm{C}\right]$ | Duty | Elevation <br> m | Inertia <br> ［kg－m］ | Weight <br> $[\mathrm{kg}]$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TEFC | 415 | $\Delta$ | 50 | 7.5 | 10 | 16.6 | 728 | 9.99 | 97.96 | IE3 | 50 | S1 | 1000 | 0.204 | 177 |

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