## PRODUCT INFORMATION PACKET

Model No: TCA0453A3141GACD01
Catalog No: TCA0453A3141GACD01
45.0 kW General Purpose Low Voltage IEC Motor, 3 phase, 1000 RPM, 415 V, 280 S Frame, TEFC Cast Iron IE3 Efficiency Motors
 Motor, 3 phase, 1000 RPM, 415 V, 280 Frame, TEFC

## Nameplate Specifications

| Output HP | 60 Hp | Output KW | 45.0 kW |
| :---: | :---: | :---: | :---: |
| Frequency | 50 Hz | Voltage | 415 V |
| Current | 81.5 A | Speed | 989 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 93.7\% | Power Factor | 0.82 |
| Duty | S1 | Insulation Class | F |
| Frame | 280S | 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 | $\mathbf{6}$ | Rotation | Bi-Directional |
| Mounting | V1 | Motor Orientation | Horizontal |
| Drive End Bearing | C3 | Opp Drive End Bearing | C3 |
| Frame Material | Cast Iron | Shaft Type | Keyed |
| Overall Length | 1195 mm | Frame Length | $\mathbf{5 4 9 \mathrm { mm }}$ |
| Shaft Diameter | 75 mm | Shaft Extension | $\mathbf{1 4 0 ~ m m ~}$ |
| Assembly/Box Mounting | Top | Outline Drawing |  |
| Connection Drawing | 8442000085 |  | $\mathbf{0 2 2 8 0 0 0 6 7 5}$ |

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Model No. TCA0453A3141GACDO1

$T_{k} / T_{N}$ - 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 Speed Torque Data |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Load | FL | $\mathrm{I}_{1}$ | $\mathrm{I}_{2}$ | $\mathrm{I}_{3}$ | $\mathrm{I}_{4}$ | $\mathrm{I}_{5}$ | LR |
| TWT Hot | s | 10000 | 50 | 30 | 25 | 18 | 16 |
| TWT Cold | s | 10000 | 100 | 60 | 55 | 36 | 33 |
| 30 |  |  |  |  |  |  |  |
| Current | pu | 1 | 2 | 3 | 4 | 5 | 5.5 |


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