

**Model No.** 6-Pole cage motor TCA 100L 1,5kW D230V 50Hz IM3001-FF165

| U<br>(V) | Δ / Y<br>Conn | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[RPM] | T<br>[Nm] | IE<br>Class | % EFF at __ load<br>FL 3/4FL 1/2FL | PF at __ load<br>FL 3/4FL 1/2FL | I <sub>A</sub> /I <sub>N</sub><br>[pu] | T <sub>A</sub> /T <sub>N</sub><br>[pu] | T <sub>K</sub> /T <sub>N</sub><br>[pu] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 230      | D             | 50        | 1,5       | 2         | 6,34     | 966        | 14,8      | IE3         | 82,5                               | 0,72                            | 6,25                                   | 2,20                                   | 2,70                                   |
| 400      | Y             |           |           |           | 3,66     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 265      | D             | 60        | 1,73      | 2,319     | 6,58     | 1165       | 14,2      | IE3         | 83,7 77,0 77,0                     | 0,75                            | 6,70                                   | 2,45                                   | 3,03                                   |
| 460      | Y             |           |           |           | 3,8      |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>TCA100L6E3</b>                   |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>100L</b>                         |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>230 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>1,5 kW</b>                       |
| Insulation class              | <b>F</b>                            |
| Ambient temperature           | <b>-20 till 40 °C</b>               |
| Temperature rise              | <b>-</b>                            |
| Temperature rise surface      |                                     |
| Altitude above sea level      | <b>1000 mtr</b>                     |
| Hazardous area classification | <b>Safe area</b>                    |

|              |                     |
|--------------|---------------------|
| Rotor type   | <b>Cage motor</b>   |
| Bearing type | <b>6206-2Z/C3WT</b> |

|                |                      |
|----------------|----------------------|
| Type of grease | <b>Chevron SRI-2</b> |
|----------------|----------------------|

|                   |           |
|-------------------|-----------|
| Country of origin | <b>CN</b> |
|-------------------|-----------|

| Voltage/Freq  | Locked rotor<br>Torque [%<br>nom] | Starting<br>current [% nom] | Pull-up<br>Torque [% nom] | Breakdown<br>Torque [% nom] | No-load<br>Current [A] |
|---------------|-----------------------------------|-----------------------------|---------------------------|-----------------------------|------------------------|
| @ D 230V 50Hz | 220%                              | 624%                        |                           | 270%                        | 4,16 A                 |
| @ D 265V 60Hz | 245%                              | 670%                        |                           | 303%                        |                        |

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Voltage, Frequency are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

This is an uncontrolled copy, data can be changed anytime.

|                        |                              |
|------------------------|------------------------------|
| Degree of protection   | <b>IP55</b>                  |
| Mounting type          | <b>IM3001-FF165</b>          |
| Cooling method         | <b>IC411</b>                 |
| Motor weight - approx. | <b>34 kg</b>                 |
| Gross weight - approx. | <b>35 kg</b>                 |
| Motor inertia          | <b>0,0200 kgm²</b>           |
| Vibration level        | <b>according IEC60034-14</b> |
| Direction of rotation  | <b>cw /ccw</b>               |
|                        | <b>PTC 150°C</b>             |

Schematic presentation of torque-speed curve



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P000019562



Driving efficiency and sustainability

