

**Model No.** 2-Pole cage motor TCA 180L 30kW D400V 50Hz IM3001-FF300

| 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 400      | D             | 50        | 30        | 40        | 51,3     | 2957       | 96,9      | IE3         | 93,3                               | 0,90                            | 7,09                                   | 1,88                                   | 2,97                                   |
| 690      | Y             |           |           |           | 29,6     |            |           |             |                                    |                                 |                                        |                                        |                                        |
|          |               |           |           |           |          |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>TCA180L2E3</b>                   |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>180L</b>                         |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>400 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>30 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>                    |

|                        |                     |
|------------------------|---------------------|
| Degree of protection   | <b>IP55</b>         |
| Mounting type          | <b>IM3001-FF300</b> |
| Cooling method         | <b>IC411</b>        |
| Motor weight - approx. | <b>230 kg</b>       |
| Gross weight - approx. | <b>237 kg</b>       |

Vibration level **according IEC60034-14**

Direction of rotation **cw /ccw**

**PTC 150°C**

|              |                     |
|--------------|---------------------|
| Rotor type   | <b>Cage motor</b>   |
| Bearing type | <b>6211-2Z/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 400V 50Hz | 188%                              | 709%                        |                           | 297%                        | 17,9 A                 |
|               |                                   |                             |                           |                             |                        |

#### NOTE

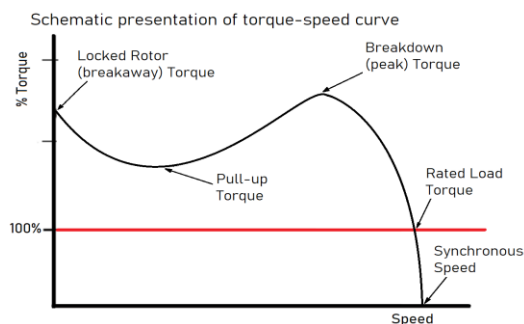
All performance values at rated voltage and frequency.

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 |



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Driving efficiency and sustainability

