

**Model No.** 2-Pole cage motor TCA 160L 18,5kW 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 |       |       | PF at __ load |       |       | 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------|-------|-------|---------------|-------|-------|----------------------------------------|----------------------------------------|----------------------------------------|
|          |               |           |           |           |          |            |           |             | FL               | 3/4FL | 1/2FL | FL            | 3/4FL | 1/2FL |                                        |                                        |                                        |
| 400      | D             | 50        | 18,5      | 24,8      | 32,1     | 2953       | 59,8      | IE3         | 92,4             | 92,4  | 92,5  | 0,90          | 0,87  | 0,80  | 7,38                                   | 2,60                                   | 3,60                                   |
| 690      | Y             |           |           |           | 18,6     |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 21,3      | 28,55     | 32       | 3551       | 57,3      | IE3         | 91,7             | 91,7  | 92,2  | 0,91          | 0,90  | 0,83  | 8,20                                   | 2,66                                   | 3,61                                   |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>TCA160LA2E3</b>                  |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>160L</b>                         |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>400 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>18,5 kW</b>                      |
| Insulation class              | <b>F</b>                            |
| Ambient temperature           | <b>-20 till 40 °C</b>               |
| Temperature rise              | <b>-</b>                            |
| Temperature rise winding      | <b>70 K</b>                         |
| Temperature rise surface      | <b>-</b>                            |
| 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>160 kg</b>                |
| Gross weight - approx. | <b>165 kg</b>                |
| Motor inertia          | <b>0,0900 kgm²</b>           |
| Vibration level        | <b>according IEC60034-14</b> |
| Direction of rotation  | <b>cw / ccw</b>              |
|                        | <b>PTC 150°C</b>             |

|                |                      |
|----------------|----------------------|
| Rotor type     | <b>Cage motor</b>    |
| Bearing type   | <b>6209-2Z/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 | 260%                              | 735%                        |                           | 360%                        | 9,49 A                 |
| @ D 460V 60Hz | 266%                              | 815%                        |                           | 361%                        |                        |

#### NOTE

All performance values at rated voltage and frequency.

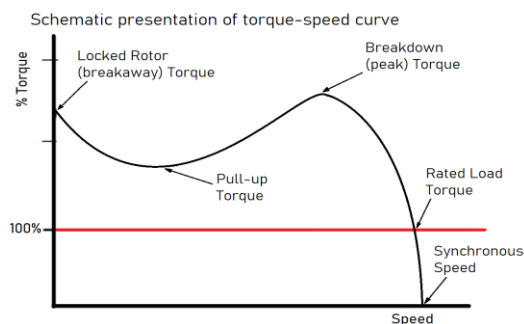
All performance parameters are subjected to standard tolerance as per IEC 60034-1

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.



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