

**Model No.** 4-Pole cage motor TCA 315L 200kW D400V 50Hz IM2001-FF600

| 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        | 200       | 268,1     | 344      | 1488       | 1283,6    | IE3         | 96,1             | 96,3  | 96,0  | 0,89          | 0,86  | 0,79  | 7,24                                   | 2,80                                   | 3,30                                   |
| 690      | Y             |           |           |           | 199      |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 230       | 308,3     | 340      | 1787       | 1229,2    | IE2         | 95,4             | 95,4  | 95,2  | 0,89          |       |       | 7,32                                   | 2,80                                   | 3,30                                   |

|                |                                     |
|----------------|-------------------------------------|
| Motor type     | <b>TCA315LC4E3</b>                  |
| Enclosure      | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material | <b>Cast iron</b>                    |
| Frame size     | <b>315L</b>                         |
| Duty           | <b>S1</b>                           |
| Voltage        | <b>400 V</b>                        |
| Frequency      | <b>50 Hz</b>                        |
| Power output   | <b>200 kW</b>                       |

|                               |                         |
|-------------------------------|-------------------------|
| Insulation class              | <b>F</b>                |
| Ambient temperature           | <b>-20 till 40 °C</b>   |
| Temperature rise              | <b>temp.rise acc. F</b> |
| Temperature rise winding      | <b>69 K</b>             |
| Temperature rise surface      | <b>31 K</b>             |
| Altitude above sea level      | <b>1000 mtr</b>         |
| Hazardous area classification | <b>Safe area</b>        |

|                    |                      |
|--------------------|----------------------|
| Rotor type         | <b>Cage motor</b>    |
| Bearing type       | <b>6319/C3</b>       |
| Lubrication method | <b>40gr/6000hrs</b>  |
| Type of grease     | <b>Chevron SRI-2</b> |

|                          |                   |
|--------------------------|-------------------|
| Phase resistance at 20°C | <b>0,0189 Ohm</b> |
| Country of origin        | <b>CN</b>         |

| Voltage/Freq  | Locked rotor<br>Torque [%<br>nom] | Starting<br>current<br>[% nom] | Pull-up<br>Torque<br>[% nom] | Breakdown<br>Torque<br>[% nom] | No-load<br>Current<br>[A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|---------------------------|
| @ D 400V 50Hz | 280%                              | 723%                           |                              | 330%                           | 103 A                     |
| @ D 460V 60Hz | 280%                              | 732%                           |                              | 330%                           |                           |

#### 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.

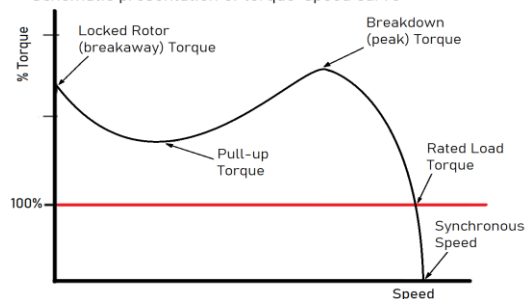
|                        |                     |
|------------------------|---------------------|
| Degree of protection   | <b>IP55</b>         |
| Mounting type          | <b>IM2001-FF600</b> |
| Cooling method         | <b>IC411</b>        |
| Motor weight - approx. | <b>1200 kg</b>      |
| Gross weight - approx. | <b>1240 kg</b>      |

Vibration level **according IEC60034-14**

Direction of rotation **cw / ccw**

**PTC 150°C**

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

