

**Model No.** 2-Pole cage motor QCA 112M 4kW D400V 50Hz IM1001

| 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        | 4         | 5 1/3     | 7,09     | 2932       | 13,0      | IE4         | 90,2             | 90,2  | 89,9  | 0,90          | 0,86  | 0,77  | 9,90                                   | 3,30                                   | 4,60                                   |
| 690      | Y             |           |           |           | 4,09     |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 4,6       | 6,166     | 7,08     | 3533       | 12,4      | IE4         | 90,2             | 90,2  | 89,0  | 0,90          | 0,88  | 0,79  | 10,50                                  | 3,10                                   | 4,90                                   |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>QCA112M2E4</b>                   |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>112M</b>                         |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>400 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>4 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>IM1001</b> |
| Cooling method         | <b>IC411</b>  |
| Motor weight - approx. | <b>53 kg</b>  |
| Gross weight - approx. | <b>55 kg</b>  |

Vibration level **according IEC60034-14**

Direction of rotation **cw / ccw**

**PTC 150°C**

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

Type of grease **Chevron SRI-2**

Country of origin **CN**

| 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 | 330%                              | 990%                        |                           | 460%                        |                        |
| @ D 460V 60Hz | 310%                              | 1049%                       |                           | 490%                        |                        |

#### 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

