

**Model No.** 4-Pole cage motor QCA 100L 3kW D400V 50Hz IM2001-FF215

| 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        | 3         | 4         | 6,29     | 1466       | 19,5      | IE4         | 90,4             | 90,4  | 88,2  | 0,76         | 0,68  | 0,54  | 9,20                                   | 3,70                                   | 4,30                                   |
| 690      | Y             |           |           |           | 3,63     |            |           |             |                  |       |       |              |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 3,45      | 4,625     | 6,3      | 1763       | 18,7      | IE4         | 89,5             | 89,5  | 89,0  | 0,77         |       |       | 10,00                                  | 3,90                                   | 4,60                                   |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | QCA100LB4E4                  |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 100L                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 3 kW                         |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | -                            |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

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

|                |               |
|----------------|---------------|
| Type of grease | Chevron SRI-2 |
|----------------|---------------|

|                   |    |
|-------------------|----|
| Country of origin | CN |
|-------------------|----|

| 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 | 370%                              | 918%                           |                              | 430%                           |                           |
| @ D 460V 60Hz | 390%                              | 10000%                         |                              | 460%                           |                           |

#### 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   | IP55                    |
| Mounting type          | IM2001-FF215            |
| Cooling method         | IC411                   |
| Motor weight - approx. | 49 kg                   |
| Gross weight - approx. | 50 kg                   |
| Motor inertia          | 0,0169 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |
| Direction of rotation  | cw /ccw                 |
|                        | PTC 150°C               |

Schematic presentation of torque-speed curve



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P000054464



Driving efficiency and sustainability

