

**Model No.** 2-Pole cage motor QCA 80M 1,1kW D230V 50Hz IM3011-FF165

| 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 |                                        |                                        |                                        |
| 230      | D             | 50        | 1,1       | 1 1/2     | 3,9      | 2891       | 3,6       | IE4         | 85,2             | 85,2  | 82,3  | 0,83          | 0,76  | 0,63  | 7,80                                   | 4,10                                   | 4,00                                   |
| 400      | Y             |           |           |           | 2,25     |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 265      | D             | 60        | 1,27      | 1,702     | 3,97     | 3487       | 3,5       | IE3         | 84,0             | 84,0  | 82,8  | 0,83          | 0,79  | 0,68  | 8,90                                   | 4,50                                   | 4,30                                   |
| 460      | Y             |           |           |           | 2,29     |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | QCA80MB2E4                   |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 80M                          |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 1,1 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 | 6204-2Z/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 230V 50Hz | 410%                              | 779%                           |                              | 400%                           |                           |
| @ D 265V 60Hz | 450%                              | 889%                           |                              | 430%                           |                           |

#### 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          | IM3011-FF165            |
| Cooling method         | IC411                   |
| Motor weight - approx. | 22 kg                   |
| Gross weight - approx. | 23 kg                   |
| Motor inertia          | 0,0018 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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Driving efficiency and sustainability

