

**Model No.** 2-Pole cage motor TCA 80M 1,1kW D230V 50Hz IM3601-FT100

| 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<br>FL 3/4FL 1/2FL | PF at __ load<br>FL 3/4FL 1/2FL | 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 230      | D             | 50        | 1,1       | 1 1/2     | 4,03     | 2883       | 3,6       | IE3         | 83,0                               | 0,84 0,77 0,64                  | 7,60                                   | 3,50                                   | 3,50                                   |
| 400      | Y             |           |           |           | 2,33     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 265      | D             | 60        | 1,27      | 1,702     | 3,95     | 3460       | 3,5       | IE2         | 82,5 82,5 80,1                     | 0,85 0,80 0,69                  | 7,60                                   | 3,27                                   | 3,49                                   |
| 460      | Y             |           |           |           | 2,32     |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>TCA80MB2E3</b>                   |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>80M</b>                          |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>230 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>1,1 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>IM3601-FT100</b> |
| Cooling method         | <b>IC411</b>        |
| Motor weight - approx. | <b>17 kg</b>        |
| Gross weight - approx. | <b>18 kg</b>        |

Vibration level **according IEC60034-14**

Direction of rotation **cw /ccw**

**PTC 150°C**

|              |                     |
|--------------|---------------------|
| Rotor type   | <b>Cage motor</b>   |
| Bearing type | <b>6204-2Z/C3WT</b> |

Type of grease **Chevron SRI-2**

|                          |                   |
|--------------------------|-------------------|
| Phase resistance at 20°C | <b>6,6000 Ohm</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 230V 50Hz | 350%                              | 761%                        |                           | 350%                        |                        |
| @ D 265V 60Hz | 327%                              | 718%                        |                           | 349%                        |                        |

#### 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

