

Model No. 2-Pole cage motor 5RN 80M 1,1kW D230V 50Hz IM2011-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<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     | 3,9      | 2860       | 3,7       | IE2         | 79,8                               | 0,89                            |                                        |                                        |                                        |
| 400      | Y             |           |           |           | 2,25     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 265      | D             | 60        | 1,27      | 1,702     | 3,7      | 3460       | 3,5       | IE2         | 82,5                               | 0,89                            | 7,60                                   | 3,30                                   | 2,70                                   |
| 460      | Y             |           |           |           | 2,15     |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 5RN80M02E23                  |
| 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 | Unirex N3 |
|----------------|-----------|

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 4,7500 Ohm |
| Country of origin        | CZ         |

| 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 [A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|------------------------|
| @ D 230V 50Hz |                                   |                                |                              |                                |                        |
| @ D 265V 60Hz | 330%                              | 759%                           |                              | 270%                           |                        |

#### 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          | IM2011-FF165          |
| Cooling method         | IC411                 |
| Motor weight - approx. | 12 kg                 |
| Gross weight - approx. | 12 kg                 |
| Vibration level        | according IEC60034-14 |
| Direction of rotation  | cw /ccw               |

Schematic presentation of torque-speed curve



P000012351  
P000012757



Driving efficiency and sustainability

