

Model No. 6-Pole cage motor 6RN 80M 0,55kW D230V 50Hz IM2081-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        | 0,55      | 0,737     | 2,96     | 900        | 5,8       | IE1         | 63,6 64,3 59,5                     | 0,72 0,61 0,48                  | 2,76                                   | 1,68                                   | 1,86                                   |
| 400      | Y             |           |           |           | 1,71     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 265      | D             | 60        | 0,63      | 0,845     | 2,86     | 1110       | 5,4       | IE1         | 67,5 68,2 64,1                     | 0,70 0,60 0,46                  | 3,14                                   | 1,81                                   | 2,07                                   |
| 460      | Y             |           |           |           | 1,65     |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN80M06E13                  |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Aluminum                     |
| Frame size                    | 80M                          |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 0,55 kW                      |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. H             |
| Temperature rise winding      | 89 K                         |
| Temperature rise surface      | 59 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |
| Te time                       | 0 sec                        |

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM2081-FF165            |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 10 kg                   |
| Gross weight - approx.             | 10 kg                   |
| Motor inertia                      | 0,0017 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 42 dB(A)                |

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6004-2Z/C3WT |

|                |           |
|----------------|-----------|
| Type of grease | Unirex N3 |
|----------------|-----------|

|                          |             |
|--------------------------|-------------|
| Phase resistance at 20°C | 17,2000 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<br>[A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|---------------------------|
| @ D 230V 50Hz | 168%                              | 273%                           | 166%                         | 186%                           | 2,42 A                    |
| @ D 265V 60Hz | 181%                              | 314%                           |                              | 207%                           | 2,25 A                    |

#### 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.

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

