

**Model No.** 4-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 |       |       | 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        | 0,55      | 0,737     | 2,17     | 1440       | 3,6       | IE3         | 81,5             | 81,8  | 79,9  | 0,77         | 0,69  | 0,56  | 6,03                                   | 2,13                                   | 3,10                                   |
| 400      | Y             |           |           |           | 1,25     |            |           |             |                  |       |       |              |       |       |                                        |                                        |                                        |
| 265      | D             | 60        | 0,63      | 0,845     | 2,13     | 1740       | 3,5       | IE3         | 83,3             | 83,5  | 81,5  | 0,77         | 0,69  | 0,57  | 6,43                                   | 2,40                                   | 3,30                                   |
| 460      | Y             |           |           |           | 1,23     |            |           |             |                  |       |       |              |       |       |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN80M04E32                  |
| 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. B             |
| Temperature rise winding      | 23 K                         |
| Temperature rise surface      | 17 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |
| Te time                       | 0 sec                        |

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

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

|                          |             |
|--------------------------|-------------|
| Phase resistance at 20°C | 13,8400 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 | 213%                              | 603%                           | 210%                         | 310%                           | 1,32 A                    |
| @ D 265V 60Hz | 240%                              | 643%                           | 204%                         | 330%                           | 1,23 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.

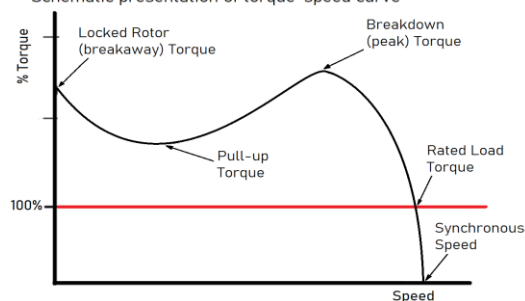
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

This is an uncontrolled copy, data can be changed anytime.

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM2081-FF165            |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 11 kg                   |
| Gross weight - approx.             | 11 kg                   |
| Motor inertia                      | 0,0021 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 50,3 dB(A)              |

|                       |          |
|-----------------------|----------|
| Direction of rotation | cw / ccw |
|-----------------------|----------|

Schematic presentation of torque-speed curve



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P000020126



Driving efficiency and sustainability

