

Model No. 4-Pole cage motor 6RN 112M 4kW D230V 50Hz IM1081

| 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        | 4         | 5 1/3     | 14,5     | 1435       | 26,6      | IE1         | 83,6 84,9 84,1                     | 0,83 0,76 0,64                  | 6,15                                   | 2,42                                   | 2,87                                   |
| 400      | Y             |           |           |           | 8,4      |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 265      | D             | 60        | 4,55      | 6,099     | 14       | 1735       | 25,0      | IE1         | 85,4 86,3 85,5                     | 0,83 0,77 0,66                  | 6,90                                   | 2,43                                   | 3,14                                   |
| 460      | Y             |           |           |           | 8,1      |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN112M04E12                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 112M                         |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 4 kW                         |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. H             |
| Temperature rise winding      | 77 K                         |
| Temperature rise surface      | 27 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6306-2Z/C3WT |

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

|                   |    |
|-------------------|----|
| Country of origin | CZ |
|-------------------|----|

| 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 | 242%                              | 615%                        | 242%                      | 287%                        | 7,83 A                 |
| @ D 265V 60Hz | 243%                              | 692%                        | 243%                      | 314%                        | 6,42 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

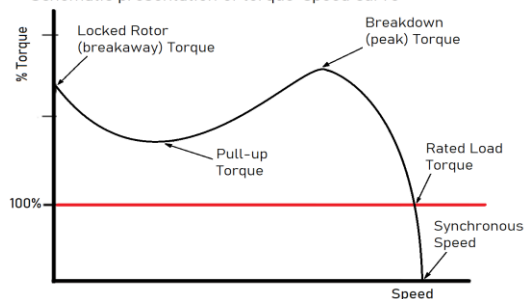
Technical data are subject to change. There may be discrepancies between calculated and name plate values.

|            |                  |               |
|------------|------------------|---------------|
| 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          | IM1081                  |
| Cooling method         | IC411                   |
| Motor weight - approx. | 40 kg                   |
| Gross weight - approx. | 41 kg                   |
| Motor inertia          | 0,0100 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |
| Direction of rotation  | cw /ccw                 |

Schematic presentation of torque-speed curve



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P000042171



Driving efficiency and sustainability

