

Model No. 4-Pole cage motor 5RN 225M 45kW D230V 50Hz IM1041

| 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        | 45        | 60,32     | 139      | 1473       | 291,8     | IE2         | 92,8 93,6                          | 0,86 0,83                       | 7,60                                   | 2,69                                   | 3,28                                   |
| 400      | Y             |           |           |           | 80       |            |           |             |                                    |                                 |                                        |                                        |                                        |
|          |               |           |           |           |          |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 5RN225M04E23                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 225M                         |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 45 kW                        |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. H             |
| Temperature rise winding      | 74 K                         |
| Temperature rise surface      | 33 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM1041                  |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 310 kg                  |
| Gross weight - approx.             | 320 kg                  |
| Motor inertia                      | 0,5268 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 62 dB(A)                |

|                    |               |
|--------------------|---------------|
| Rotor type         | Cage motor    |
| Bearing type       | 6313/C3       |
| Lubrication method | 22gr/10200hrs |
| Type of grease     | Unirex N3     |

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,0344 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 | 269%                              | 706%                           | 210%                         | 328%                           | 52 A                      |
|               |                                   |                                |                              |                                |                           |

#### NOTE

All performance values at rated voltage and frequency.

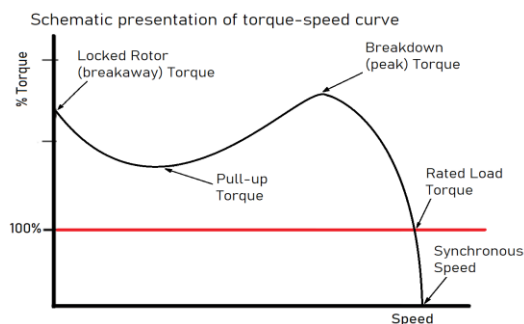
All performance parameters are subjected to standard tolerance as per IEC 60034-1

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.



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Driving efficiency and sustainability

