

**Model No.** 6-Pole cage motor 5RN 225M 37kW D400V 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 |       |       | 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 |                                        |                                        |                                        |
| 400      | D             | 50        | 37        | 49,6      | 69       | 980        | 360,6     | IE2         | 92,2             | 93,1  |       | 0,84          | 0,80  |       | 6,70                                   | 2,80                                   | 2,90                                   |
| 690      | Y             |           |           |           | 39,8     |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 44,5      | 59,65     | 81       | 1180       | 360,1     | IE2         | 93,6             | 94,1  |       | 0,85          | 0,82  |       | 6,60                                   | 2,70                                   | 2,80                                   |

|                |                              |
|----------------|------------------------------|
| Motor type     | 5RN225M06E28                 |
| Enclosure      | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron                    |
| Frame size     | 225M                         |
| Duty           | S1                           |
| Voltage        | 400 V                        |
| Frequency      | 50 Hz                        |
| Power output   | 37 kW                        |

|                               |                |
|-------------------------------|----------------|
| Insulation class              | F              |
| Ambient temperature           | -20 till 40 °C |
| Temperature rise              | -              |
| Temperature rise winding      | 56 K           |
| Temperature rise surface      | 36 K           |
| Altitude above sea level      | 1000 mtr       |
| Hazardous area classification | Safe area      |

|                    |               |
|--------------------|---------------|
| Rotor type         | Cage motor    |
| Bearing type       | 6313/C3       |
| Lubrication method | 22gr/13400hrs |
| Type of grease     | Unirex N3     |

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,1749 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 400V 50Hz | 280%                              | 669%                           | 243%                         | 290%                           | 26,5 A                    |
| @ D 460V 60Hz | 270%                              | 659%                           |                              | 280%                           |                           |

### 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          | IM1041                  |
| Cooling method         | IC411                   |
| Motor weight - approx. | 300 kg                  |
| Gross weight - approx. | 310 kg                  |
| Motor inertia          | 0,7600 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |

Direction of rotation cw / ccw

Schematic presentation of torque-speed curve



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P000012301



Driving efficiency and sustainability

