

Model No. 4-Pole cage motor 23RN 200L 45kW D400V 50Hz IM2021-FF400

| 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 400      | D             | 50        | 45        | 60,32     | 81,3     | 1450       | 296,4     | N/A         | 91,9                               | 0,87                            | 6,06                                   | 2,08                                   | 2,73                                   |
| 690      | Y             |           |           |           | 46,9     |            |           |             |                                    |                                 |                                        |                                        |                                        |
|          |               |           |           |           |          |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                |                       |
|----------------|-----------------------|
| Motor type     | 23RN200L04            |
| Enclosure      | IP23 Free circulation |
| Frame Material | Cast iron             |
| Frame size     | 200L                  |
| Duty           | S1                    |
| Voltage        | 400 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      | 75 K             |
| Temperature rise surface      | 38 K             |
| Altitude above sea level      | 1000 mtr         |
| Hazardous area classification | Safe area        |

|                    |               |
|--------------------|---------------|
| Rotor type         | Cage motor    |
| Bearing type       | 6313/C3       |
| Lubrication method | 22gr/10200hrs |
| Type of grease     | 0             |

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,1070 Ohm |
| Country of origin        | CN         |

| 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 | 208%                              | 603%                           | 149%                         | 273%                           | 28,1 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.

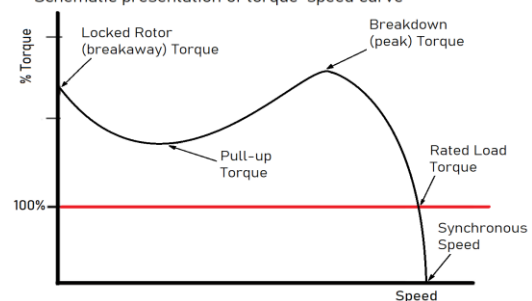
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP23                    |
| Mounting type                      | IM2021-FF400            |
| Cooling method                     | IC01                    |
| Motor weight - approx.             | 310 kg                  |
| Gross weight - approx.             | 320 kg                  |
| Motor inertia                      | 0,6200 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 68 dB(A)                |

|                       |           |
|-----------------------|-----------|
| Direction of rotation | cw /ccw   |
|                       | PTC 150°C |
|                       | No        |
|                       | No        |
|                       | No        |

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

