

**Model No.** 4-Pole cage motor 6RN 100L 2,2kW D400V 50Hz IM2181-FT165

| 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        | 2,2       | 3         | 4,74     | 1459       | 14,4      | IE2         | 84,2 84,6                          | 0,80                            | 6,90                                   | 2,10                                   | 3,30                                   |
| 690      | Y             |           |           |           | 2,74     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 460      | D             | 60        | 2,55      | 3,418     | 4,64     | 1755       | 13,9      | IE2         | 85,7                               | 0,81                            | 7,39                                   | 2,18                                   | 3,20                                   |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN100L04E24                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 100L                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 2,2 kW                       |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. B             |
| Temperature rise winding      | 44 K                         |
| Temperature rise surface      | 22 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |
| Te time                       | 0 sec                        |

|                        |                         |
|------------------------|-------------------------|
| Degree of protection   | IP55                    |
| Mounting type          | IM2181-FT165            |
| Cooling method         | IC411                   |
| Motor weight - approx. | 32 kg                   |
| Gross weight - approx. | 33 kg                   |
| Motor inertia          | 0,0086 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |

|              |              |
|--------------|--------------|
| 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<br>[% nom] | Pull-up<br>Torque<br>[% nom] | Breakdown<br>Torque<br>[% nom] | No-load<br>Current<br>[A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|---------------------------|
| @ D 400V 50Hz | 210%                              | 689%                           | 160%                         | 330%                           | 2,61 A                    |
| @ D 460V 60Hz | 218%                              | 739%                           |                              | 320%                           | 2,23 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.

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

