

Model No. 4-Pole cage motor 6RN 112M 4kW D400V 50Hz IM3641-FT130

| 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        | 4         | 5 1/3     | 7,94     | 1460       | 26,2      | IE3         | 88,6 89,2 88,6                     | 0,82 0,77 0,65                  | 7,90                                   | 2,30                                   | 3,70                                   |
| 690      | Y             |           |           |           | 4,6      |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 460      | D             | 60        | 4,55      | 6,099     | 7,7      | 1760       | 24,7      | IE3         | 89,7 90,1 89,4                     | 0,83 0,78 0,67                  | 8,17                                   | 2,50                                   | 3,70                                   |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN112M04E32                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 112M                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 4 kW                         |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. B             |
| Temperature rise winding      | 60 K                         |
| Temperature rise surface      |                              |
| 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 |
|----------------|-----------|

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 3,2000 Ohm |
| 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 400V 50Hz | 230%                              | 777%                        | 175%                      | 370%                        | 3,6 A                  |
| @ D 460V 60Hz | 250%                              | 816%                        | 168%                      | 370%                        | 3,46 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.

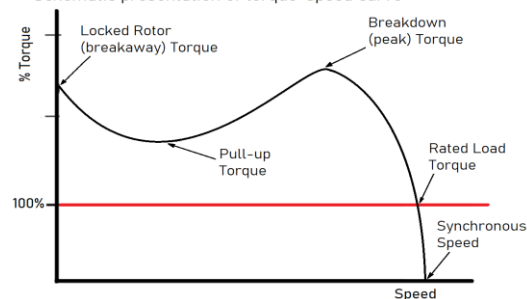
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM3641-FT130            |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 47 kg                   |
| Gross weight - approx.             | 48 kg                   |
| Motor inertia                      | 0,0170 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 53 dB(A)                |

|                       |          |
|-----------------------|----------|
| Direction of rotation | cw / ccw |
|-----------------------|----------|

Schematic presentation of torque-speed curve



P000013606  
P000017329



Driving efficiency and sustainability

