

**Model No.** 8-Pole cage motor 6RN 315M 75kW D400V 50Hz IM3021-FF600

| 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        | 75        | 100       | 143      | 738        | 970,5     | IE2         | 93,5             | 94,4  | 94,5  | 0,81         | 0,77  | 0,68  | 5,80                                   | 2,20                                   | 2,60                                   |
| 690      | Y             |           |           |           | 82,5     |            |           |             |                  |       |       |              |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 90        | 120       | 147      | 888        | 967,9     | IE2         | 93,6             | 94,5  | 94,7  | 0,82         | 0,79  | 0,71  | 5,60                                   | 2,10                                   | 2,40                                   |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN315M08E22                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 315M                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 75 kW                        |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | -                            |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|                    |              |
|--------------------|--------------|
| Rotor type         | Cage motor   |
| Bearing type       | 6319/C3      |
| Lubrication method | 40gr/6000hrs |
| 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 | 220%                              | 579%                           |                              | 260%                           |                           |
| @ D 460V 60Hz | 210%                              | 559%                           |                              | 240%                           |                           |

### 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.

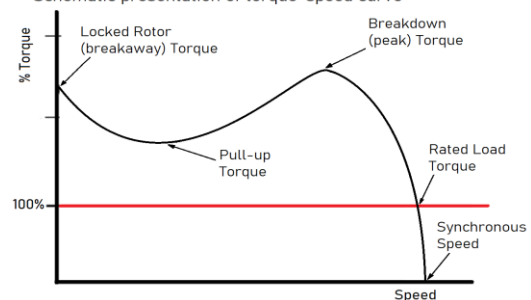
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM3021-FF600            |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 1090 kg                 |
| Gross weight - approx.             | 1120 kg                 |
| Motor inertia                      | 2,5000 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 61 dB(A)                |

|                       |           |
|-----------------------|-----------|
| Direction of rotation | cw / ccw  |
|                       | PTC 150°C |

Schematic presentation of torque-speed curve



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P000014917



Driving efficiency and sustainability

