

Model No. 6-Pole cage motor 6RN 315L 160kW D400V 50Hz IM3011-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<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        | 160       | 214,5     | 295      | 993        | 1538,8    | IE4         | 96,2                               | 0,82                            | 8,00                                   | 2,90                                   | 3,10                                   |
| 690      | Y             |           |           |           | 170      |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 460      | D             | 60        | 192       | 257,4     | 300      | 1192       | 1538,3    | IE4         | 96,2                               | 0,84                            | 7,80                                   | 2,52                                   | 2,80                                   |

|                |                              |
|----------------|------------------------------|
| Motor type     | 6RN315L06E46                 |
| Enclosure      | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron                    |
| Frame size     | 315L                         |
| Duty           | S1                           |
| Voltage        | 400 V                        |
| Frequency      | 50 Hz                        |
| Power output   | 160 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/C4      |
| Lubrication method | 40gr/6000hrs |
| Type of grease     | Unirex N3    |

|                   |    |
|-------------------|----|
| 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 | 290%                              | 800%                        |                           | 310%                        |                        |
| @ D 460V 60Hz | 252%                              | 780%                        | 223%                      | 280%                        | 109 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          | IM3011-FF600            |
| Cooling method         | IC411                   |
| Motor weight - approx. | 1260 kg                 |
| Gross weight - approx. | 1300 kg                 |
| Motor inertia          | 5,6700 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |

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

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

