

**Model No.** 4-Pole cage motor 6RN 315M 132kW D400V 50Hz IM1001

| 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        | 132       | 175       | 231      | 1490       | 846,0     | IE2         | 95,3             | 95,5  | 95,0  | 0,86          | 0,84  | 0,76  | 7,23                                   | 2,48                                   | 2,85                                   |
| 690      | Y             |           |           |           | 133      |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 152       | 203,8     | 230      | 1788       | 811,9     | IE2         | 95,2             | 95,3  | 94,7  | 0,87          | 0,85  | 0,78  | 7,16                                   | 2,53                                   | 2,71                                   |

|                |                              |
|----------------|------------------------------|
| Motor type     | 6RN315M04E22                 |
| Enclosure      | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron                    |
| Frame size     | 315M                         |
| Duty           | S1                           |
| Voltage        | 400 V                        |
| Frequency      | 50 Hz                        |
| Power output   | 132 kW                       |

|                               |                  |
|-------------------------------|------------------|
| Insulation class              | F                |
| Ambient temperature           | -20 till 40 °C   |
| Temperature rise              | temp.rise acc. F |
| Temperature rise winding      | 65 K             |
| Temperature rise surface      | 24 K             |
| 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    |

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,0310 Ohm |
| 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 | 248%                              | 722%                           | 213%                         | 285%                           | 69,9 A                    |
| @ D 460V 60Hz | 253%                              | 713%                           | 203%                         | 271%                           | 63,9 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 |

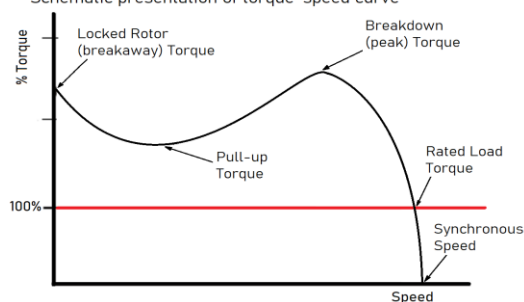
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|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM1001                  |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 870 kg                  |
| Gross weight - approx.             | 900 kg                  |
| Motor inertia                      | 2,3000 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

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

