

**Model No.** 4-Pole cage motor 6RD 160M 11kW D400V 50Hz IM2011-FF300

| 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        | 11        | 15        | 20,4     | 1476       | 71,2      | IE3         | 91,4                               | 0,84                            | 7,39                                   | 2,37                                   | 3,20                                   |
| 690      | Y             |           |           |           | 11,8     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 460      | D             | 60        | 11        | 15        | 18,4     | 1776       | 59,1      | IE3         | 92,4                               | 0,81                            | 7,54                                   | 2,40                                   |                                        |

|                |                              |
|----------------|------------------------------|
| Motor type     | 6RD160MB4E3                  |
| Enclosure      | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron                    |
| Frame size     | 160M                         |
| Duty           | S1                           |
| Voltage        | 400 V                        |
| Frequency      | 50 Hz                        |
| Power output   | 11 kW                        |

|                     |                |
|---------------------|----------------|
| Insulation class    | F              |
| Ambient temperature | -20 till 40 °C |
| Temperature rise    | -              |

|                               |                           |
|-------------------------------|---------------------------|
| Temperature rise surface      |                           |
| Altitude above sea level      | 1000 mtr                  |
| Hazardous area classification | ExII2G Ex db eb IIC T4 Gb |
| Te time                       | 0 sec                     |

|              |            |
|--------------|------------|
| Rotor type   | Cage motor |
| Bearing type | 6309-2Z/C3 |

|                |           |
|----------------|-----------|
| Type of grease | Unirex N3 |
|----------------|-----------|

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,4130 Ohm |
| Country of origin        | IT         |

| 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 | 237%                              | 740%                        |                           | 320%                        | 8,68 A                 |
| @ D 460V 60Hz | 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.

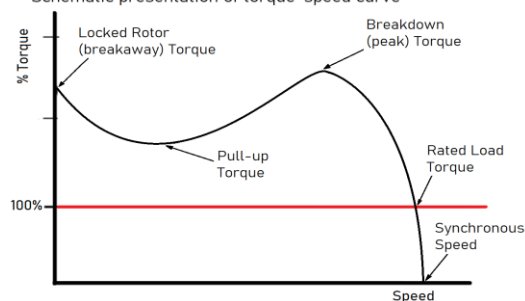
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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

|                        |                         |
|------------------------|-------------------------|
| Degree of protection   | IP55                    |
| Mounting type          | IM2011-FF300            |
| Cooling method         | IC411                   |
| Motor weight - approx. | 208 kg                  |
| Gross weight - approx. | 214 kg                  |
| Motor inertia          | 0,1080 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |

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

Schematic presentation of torque-speed curve



P000057513  
P000060941



Driving efficiency and sustainability

