

**Model No.** 4-Pole cage motor 6RN 160L 18,5kW D400V 50Hz IM2081-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        | 18,5      | 24,8      | 34,9     | 1474       | 119,9     | IE2         | 91,0                               | 0,85                            | 7,70                                   | 2,50                                   | 3,30                                   |
| 690      | Y             |           |           |           | 20,1     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 460      | D             | 60        | 21,3      | 28,55     | 34,3     | 1773       | 114,7     | IE2         | 91,9                               | 0,85                            | 7,70                                   | 2,50                                   | 3,30                                   |

Motor type **6RN160L04E26**  
Enclosure **Totally Enclosed Fan Cooling**  
Frame Material **Cast iron**  
Frame size **160L**  
Duty **S1**  
Voltage **400 V**  
Frequency **50 Hz**  
Power output **18,5 kW**

Insulation class **F**  
Ambient temperature **-20 till 40 °C**  
Temperature rise **temp.rise acc. H**  
Temperature rise winding **77 K**  
Temperature rise surface  
Altitude above sea level **1000 mtr**  
Hazardous area classification **Safe area**

Rotor type **Cage motor**  
Bearing type **6309-2Z/C3WT**

Type of grease **Unirex N3**

Phase resistance at 20°C **0,2458 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 | 250%                              | 770%                           |                              | 330%                           | 14,6 A                    |
| @ D 460V 60Hz | 250%                              | 769%                           |                              | 330%                           | 12,7 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 |

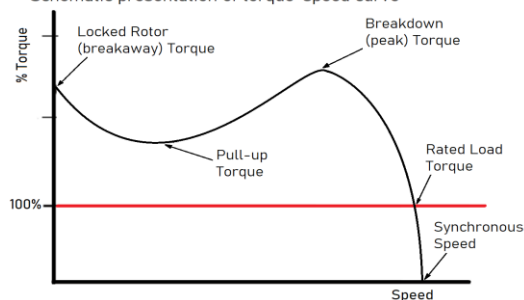
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Degree of protection **IP55**  
Mounting type **IM2081-FF300**  
Cooling method **IC411**  
Motor weight - approx. **120 kg**  
Gross weight - approx. **124 kg**  
Motor inertia **0,0990 kgm<sup>2</sup>**

Vibration level **according IEC60034-14**

Direction of rotation **cw / ccw**

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

