

Model No. 2-Pole cage motor 6RN 160L 22kW D440V 60Hz 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 440      | D             | 60        | 22        | 30        | 34,5     | 3530       | 59,5      | IE3         | 92,4                               | 0,91                            | 8,54                                   | 2,31                                   | 3,61                                   |
|          |               |           |           |           |          |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN160L02E34                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 160L                         |
| Duty                          | S1                           |
| Voltage                       | 440 V                        |
| Frequency                     | 60 Hz                        |
| Power output                  | 22 kW                        |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. B             |
| Temperature rise winding      | 54 K                         |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |
| Te time                       | 0 sec                        |

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

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

|                   |    |
|-------------------|----|
| Country of origin | CZ |
|-------------------|----|

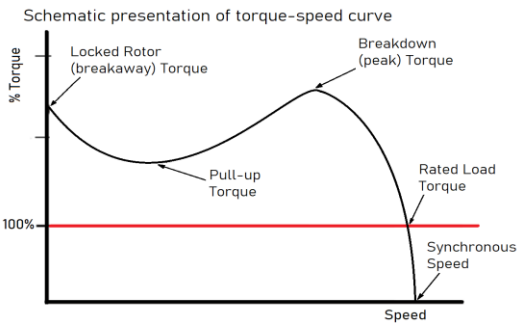
| Voltage/Freq  | Locked rotor<br>Torque [%<br>nom] | Starting<br>current [% nom] | Pull-up<br>Torque [% nom] | Breakdown<br>Torque [% nom] | No-load<br>Current [A] |
|---------------|-----------------------------------|-----------------------------|---------------------------|-----------------------------|------------------------|
| @ D 440V 60Hz | 231%                              | 849%                        | 205%                      | 361%                        |                        |
|               |                                   |                             |                           |                             |                        |

**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 |

|                        |                         |
|------------------------|-------------------------|
| Degree of protection   | IP55                    |
| Mounting type          | IM2081-FF300            |
| Cooling method         | IC411                   |
| Motor weight - approx. | 130 kg                  |
| Gross weight - approx. | 134 kg                  |
| Motor inertia          | 0,0680 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |

|                       |          |
|-----------------------|----------|
| Direction of rotation | cw / ccw |
|-----------------------|----------|



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Driving efficiency and sustainability

