

**Model No.** 4-Pole cage motor 6RN 180M 18,5kW D230V 50Hz IM3041-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 |       |       | 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 |                                        |                                        |                                        |
| 230      | D             | 50        | 18,5      | 24,8      | 60,1     | 1465       | 120,6     | IE2         | 91,0             | 91,8  | 91,7  | 0,84         | 0,79  | 0,69  | 7,62                                   | 2,47                                   | 3,31                                   |
| 400      | Y             |           |           |           | 34,7     |            |           |             |                  |       |       |              |       |       |                                        |                                        |                                        |
| 265      | D             | 60        | 21,3      | 28,55     | 60       | 1765       | 115,2     | IE2         | 92,4             | 92,4  | 92,2  | 0,84         | 0,80  | 0,71  | 7,26                                   | 2,36                                   | 2,66                                   |
| 460      | Y             |           |           |           | 34,7     |            |           |             |                  |       |       |              |       |       |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN180M04E22                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 180M                         |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 18,5 kW                      |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. F             |
| Temperature rise winding      | 71 K                         |
| Temperature rise surface      | 32 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6310-2Z/C3WT |

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

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,1570 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 230V 50Hz | 247%                              | 768%                           | 223%                         | 331%                           | 24,6 A                    |
| @ D 265V 60Hz | 236%                              | 726%                           | 171%                         | 266%                           | 22,9 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.

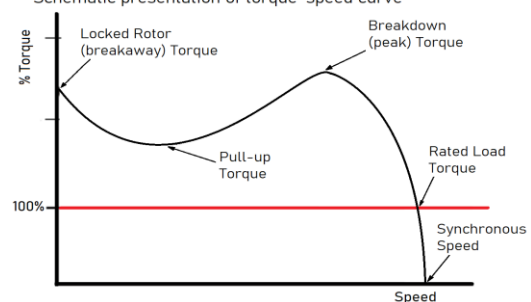
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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

|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM3041-FF300            |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 160 kg                  |
| Gross weight - approx.             | 165 kg                  |
| Motor inertia                      | 0,1200 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 58 dB(A)                |

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

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

