

**Model No.** 2-Pole cage motor 5RN 90S 1,5kW D230V 50Hz IM3041-FF165

| 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|---------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 230      | D             | 50        | 1,5       | 2         | 5,28     | 2890       | 5,0       | IE2         | 81,3 81,3 80,3                     | 0,87 0,84 0,76                  | 7,00                                   | 3,50                                   | 3,50                                   |
| 400      | Y             |           |           |           | 3,05     |            |           |             |                                    |                                 |                                        |                                        |                                        |
| 265      | D             | 60        | 1,75      | 2 1/3     | 5,2      | 3490       | 4,8       | IE2         |                                    | 0,84                            |                                        |                                        |                                        |
| 460      | Y             |           |           |           | 3        |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 5RN90S02E20                  |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 90S                          |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 1,5 kW                       |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | -                            |
| Temperature rise winding      | 60 K                         |
| Temperature rise surface      | 17 K                         |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |
| Te time                       | 0 sec                        |

|                        |              |
|------------------------|--------------|
| Degree of protection   | IP55         |
| Mounting type          | IM3041-FF165 |
| Cooling method         | IC411        |
| Motor weight - approx. | 15 kg        |
| Gross weight - approx. | 15 kg        |

Vibration level according IEC60034-14

Direction of rotation cw / ccw

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6205-2Z/C3WT |

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

|                   |    |
|-------------------|----|
| 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 | 350%                              | 698%                           | 280%                         | 350%                           |                           |
| @ D 265V 60Hz |                                   |                                |                              |                                |                           |

### NOTE

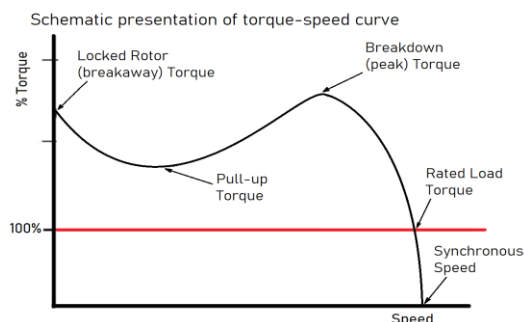
All performance values at rated voltage and frequency.

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

Driving efficiency and sustainability

