

# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN132S02E30U46B3641-A

Catalog No: 6RN132S02E30U46B@3641-A

5.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,  
132S Frame B14, IC411



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### Nameplate Specifications

|                        |                             |                            |                             |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP              | 7.5 Hp                      | Output KW                  | 5.5 kW                      |
| Frequency              | 50 Hz                       | Voltage                    | D400/Y690 V                 |
| Current                | 9.90 A                      | Speed                      | 2950 rpm                    |
| Service Factor         | 1                           | Phase                      | 3                           |
| Efficiency             | 89.2 %                      | Power Factor               | 0.90                        |
| Duty                   | S1                          | Insulation Class           | F                           |
| Frame                  | 132S                        | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection               | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6308-2Z/C3WT (-40°C/+160°C) | Opp Drive End Bearing Size | 6308-2Z/C3WT (-40°C/+160°C) |
| UL                     | No                          | CSA                        | Optional                    |
| CE                     | Yes                         | IP Code                    | IP55                        |
| Number of Speeds       | 1                           | Efficiency Class           | IE3                         |

### Technical Specifications

|                 |                     |                   |                     |
|-----------------|---------------------|-------------------|---------------------|
| Electrical Type | Squirrel Cage       | Starting Method   | Direct On Line      |
| Poles           | 2                   | Rotation          | Clockwise Shaft End |
| Mounting        | B14                 | Motor Orientation | Any                 |
| Frame Material  | Cast iron           | Shaft Type        | Keyed               |
| Shaft Diameter  | 38 mm               | Shaft Extension   | 80 mm               |
| Outline Drawing | 6RN132S02E30_3641-A |                   |                     |

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Datasheet



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**Model No.** 2-Pole cage motor 6RN 132S 5,5kW D400V 50Hz IM3641-FT165

| U<br>(V) | Δ / Y<br>Conn | f<br>[Hz] | P    |       | 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>R</sub> /T <sub>N</sub><br>[pu] |
|----------|---------------|-----------|------|-------|----------|------------|-----------|-------------|------------------|-------|-------|--------------|-------|-------|--|--|--|
|          |               |           | [kW] | [hp]  |          |            |           |             | FL               | 3/4FL | 1/2FL | FL           | 3/4FL | 1/2FL |  |  |  |
| 400      | D             | 50        | 5,5  | 7 1/3 | 9,9      | 2950       | 18        | IE3         | 89,2             | 89,2  | 88,2  | 0,90         | 0,88  | 0,83  | 7,97                                   | 1,90                                   | 3,70                                   |
| 690      | Y             |           |      |       | 5,7      |            |           |             |                  |       |       |              |       |       |  |  |  |
| 460      | D             | 60        | 6,3  | 8,445 | 9,7      | 3545       | 17        | IE3         | 89,5             | 89,5  | 88,5  | 0,90         |       |       | 7,30                                   | 1,90                                   | 3,70                                   |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>6RN132S02E30</b>                 |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>132S</b>                         |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>400 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>5,5 kW</b>                       |
| Insulation class              | <b>F</b>                            |
| Ambient temperature           | <b>-20 till 40 °C</b>               |
| Temperature rise              | <b>temp.rise acc. B (80K)</b>       |
| Temperature rise winding      | <b>47 K</b>                         |
| Temperature rise surface      |                                     |
| Altitude above sea level      | <b>1000 mtr</b>                     |
| Hazardous area classification | <b>Safe area</b>                    |

|              |                     |
|--------------|---------------------|
| Rotor type   | <b>Cage motor</b>   |
| Bearing type | <b>6308-2Z/C3WT</b> |

|                |                  |
|----------------|------------------|
| Type of grease | <b>Unirex N3</b> |
|----------------|------------------|

|                          |                   |
|--------------------------|-------------------|
| Phase resistance at 20°C | <b>0,9516 Ohm</b> |
| Country of origin        | <b>CZ</b>         |

| Voltage/Freq  | Locked rotor Torque [nom] [%] | Starting current [% nom] | Pull-up Torque [% nom] | Breakdown Torque [% nom] | No-load Current [A] |
|---------------|-------------------------------|--------------------------|------------------------|--------------------------|---------------------|
| @ D 400V 50Hz | 190%                          | 796%                     | 150%                   | 370%                     | 3,33 A              |
| @ D 460V 60Hz | 190%                          | 729%                     |                        | 370%                     | 3,08 A              |

**NOTE**

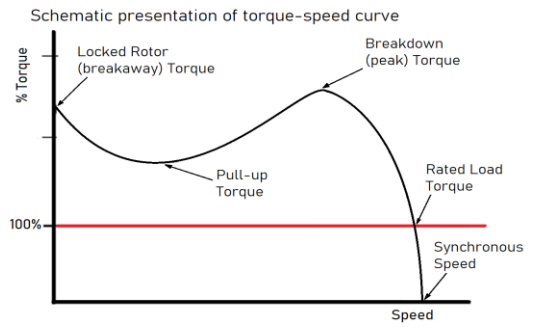
All performance values at rated voltage and frequency.  
 All performance parameters are subjected to standard tolerance as per IEC 60034-1  
 Voltage, Frequency are as per IEC60034-1  
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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|                                    |                               |
|------------------------------------|-------------------------------|
| Degree of protection               | <b>IP55</b>                   |
| Mounting type                      | <b>IM3641-FT165</b>           |
| Cooling method                     | <b>IC411</b>                  |
| Motor weight - approx.             | <b>64 kg</b>                  |
| Gross weight - approx.             | <b>66 kg</b>                  |
| Motor inertia                      | <b>0,0240 kgm<sup>2</sup></b> |
| Vibration level                    | <b>according IEC60034-14</b>  |
| Noise level (pressure) acc 60034-9 | <b>68 dB(A)</b>               |

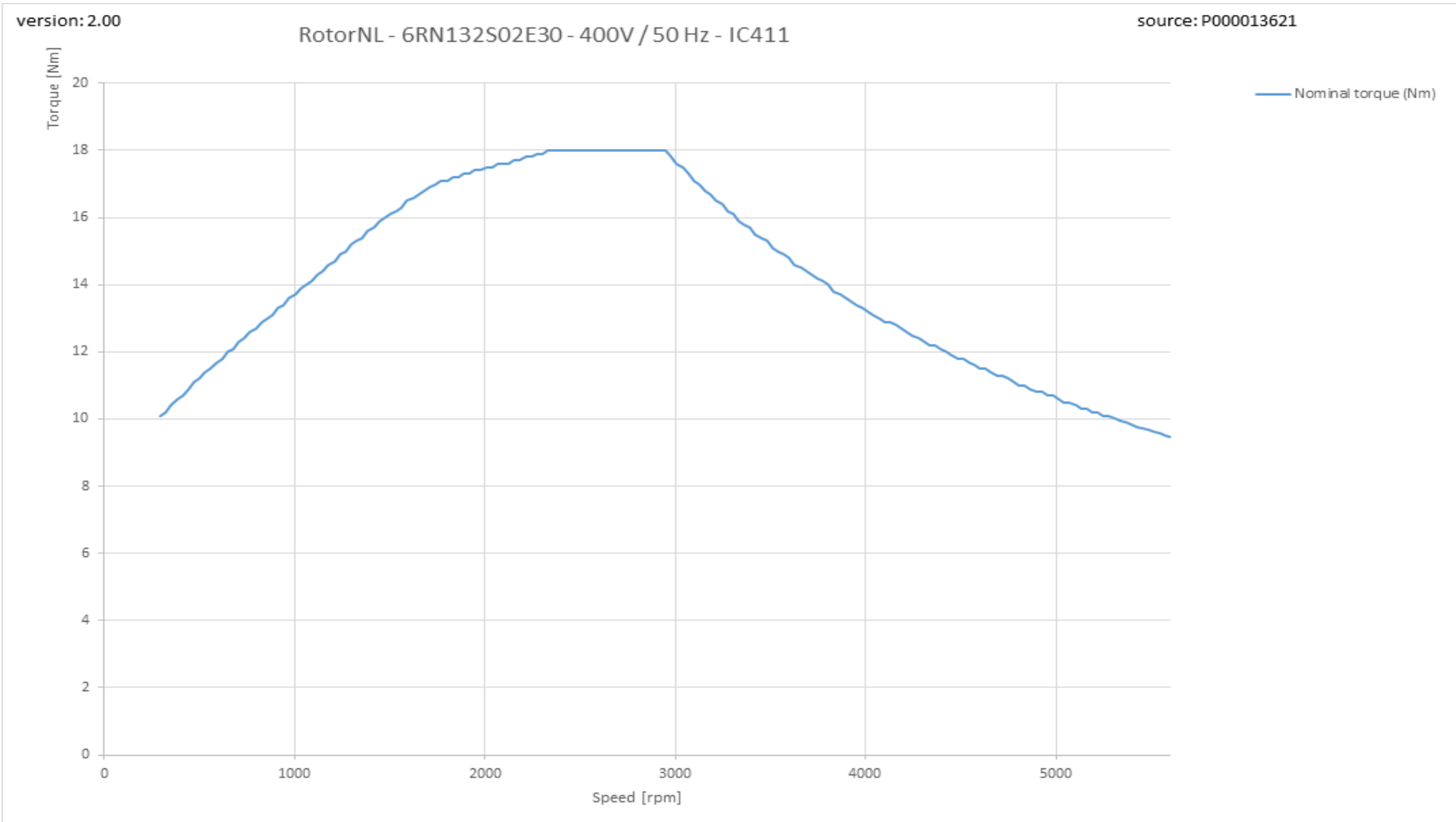
|                       |                 |
|-----------------------|-----------------|
| Direction of rotation | <b>cw / ccw</b> |
|-----------------------|-----------------|



6RN132S02E30 2-pole 5,50kW D/Y 400/690V 50Hz S1 IC411 IE3



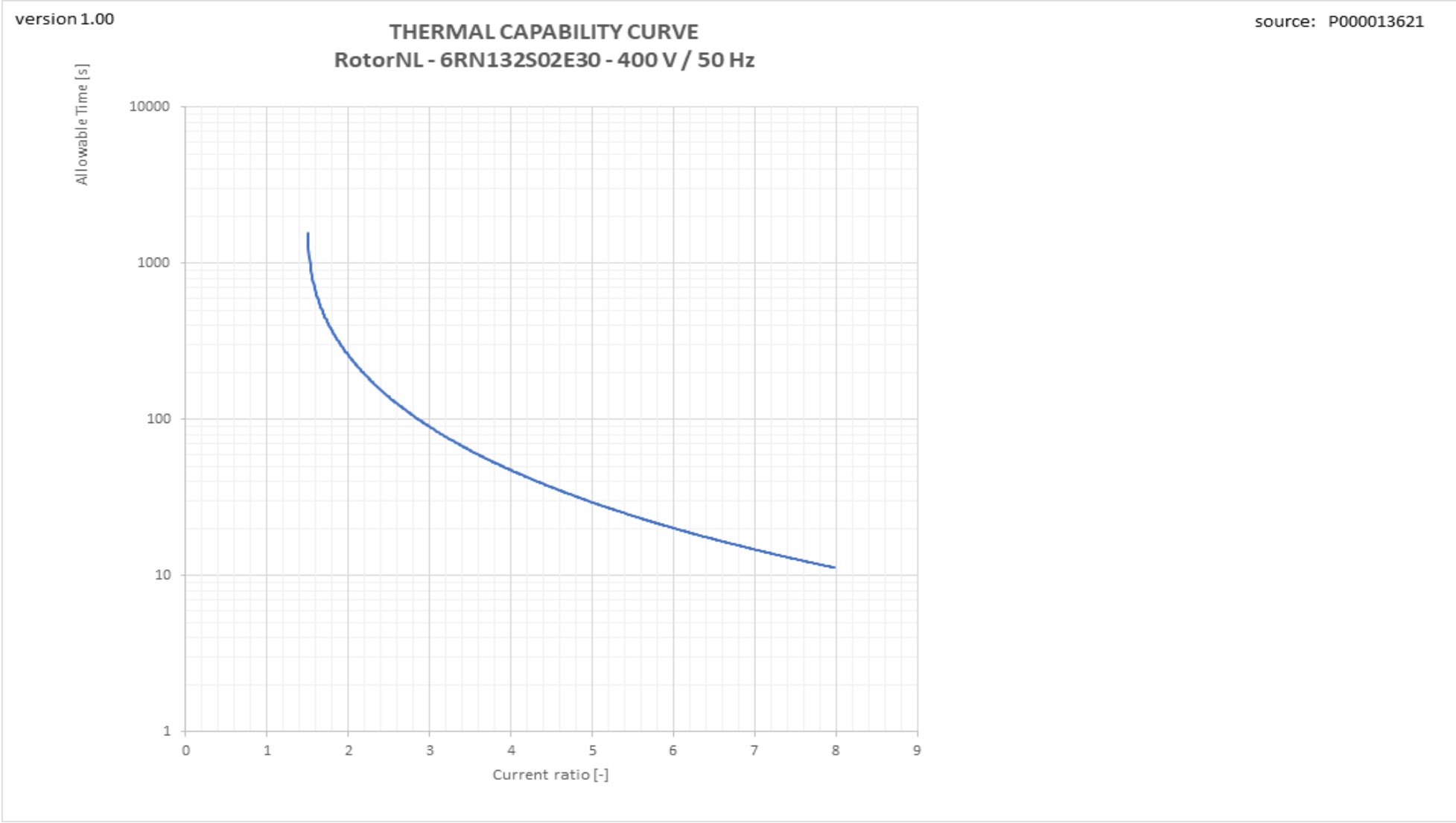
Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph

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Tn graph

