

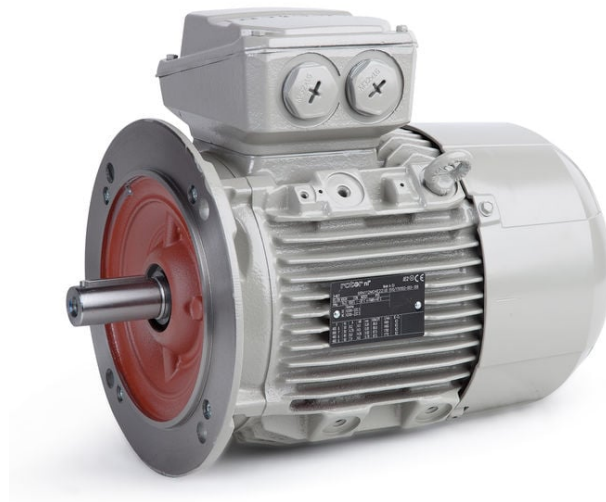
# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN112M06E32U243041

Catalog No: 6RN112M06E32U24@3041

2.20 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,  
112M Frame B5, IC411



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**Nameplate Specifications**

|                        |                                    |                            |                                    |
|------------------------|------------------------------------|----------------------------|------------------------------------|
| Output HP              | <b>3 Hp</b>                        | Output KW                  | <b>2.2 kW</b>                      |
| Frequency              | <b>50 Hz</b>                       | Voltage                    | <b>D230/Y400 V</b>                 |
| Current                | <b>8.70 A</b>                      | Speed                      | <b>970 rpm</b>                     |
| Service Factor         | <b>1</b>                           | Phase                      | <b>3</b>                           |
| Efficiency             | <b>84.3 %</b>                      | Power Factor               | <b>0.75</b>                        |
| Duty                   | <b>S1</b>                          | Insulation Class           | <b>F</b>                           |
| Frame                  | <b>112M</b>                        | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No Protection</b>               | Ambient Temperature        | <b>40 °C</b>                       |
| Drive End Bearing Size | <b>6306-2Z/C3WT (-40°C/+160°C)</b> | Opp Drive End Bearing Size | <b>6306-2Z/C3WT (-40°C/+160°C)</b> |
| UL                     | <b>No</b>                          | CSA                        | <b>Optional</b>                    |
| CE                     | <b>Yes</b>                         | IP Code                    | <b>IP55</b>                        |
| Number of Speeds       | <b>1</b>                           | Efficiency Class           | <b>IE3</b>                         |

**Technical Specifications**

|                 |                      |                   |                            |
|-----------------|----------------------|-------------------|----------------------------|
| Electrical Type | <b>Squirrel Cage</b> | Starting Method   | <b>Direct On Line</b>      |
| Poles           | <b>6</b>             | Rotation          | <b>Clockwise Shaft End</b> |
| Mounting        | <b>B5</b>            | Motor Orientation | <b>Any</b>                 |
| Frame Material  | <b>Cast iron</b>     | Shaft Type        | <b>Keyed</b>               |
| Shaft Diameter  | <b>28 mm</b>         | Shaft Extension   | <b>60 mm</b>               |

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Datasheet



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**Model No.** 6-Pole cage motor 6RN 112M 2,2kW D230V 50Hz IM3041-FF215

| 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 |  |  |  |
| 230      | D             | 50        | 2,2  | 3     | 8,7      | 970        | 21,6      | IE3         | 84,3             |       |       | 0,75         |       |       | 5,50                                   | 2,00                                   | 2,58                                   |
| 400      | Y             |           |      |       | 5        |            |           |             |                  |       |       |              |       |       |  |  |  |
| 265      | D             | 60        | 2,55 | 3,418 | 8,6      | 1170       | 20,8      | IE3         | 86,6             |       |       | 0,74         |       |       | 5,72                                   | 1,99                                   | 2,60                                   |
| 460      | Y             |           |      |       | 5        |            |           |             |                  |       |       |              |       |       |  |  |  |

|                               |                                     |
|-------------------------------|-------------------------------------|
| Motor type                    | <b>6RN112M06E32</b>                 |
| Enclosure                     | <b>Totally Enclosed Fan Cooling</b> |
| Frame Material                | <b>Cast iron</b>                    |
| Frame size                    | <b>112M</b>                         |
| Duty                          | <b>S1</b>                           |
| Voltage                       | <b>230 V</b>                        |
| Frequency                     | <b>50 Hz</b>                        |
| Power output                  | <b>2,2 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>43 K</b>                         |
| Temperature rise surface      | <b>26 K</b>                         |
| Altitude above sea level      | <b>1000 mtr</b>                     |
| Hazardous area classification | <b>Safe area</b>                    |

|              |                     |
|--------------|---------------------|
| Rotor type   | <b>Cage motor</b>   |
| Bearing type | <b>6306-2Z/C3WT</b> |

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

|                          |                   |
|--------------------------|-------------------|
| Phase resistance at 20°C | <b>2,2700 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 230V 50Hz | 200%                          | 550%                     | 160%                   | 258%                     | 5 A                 |
| @ D 265V 60Hz | 199%                          | 572%                     | 170%                   | 260%                     | 4,63 A              |

**NOTE**

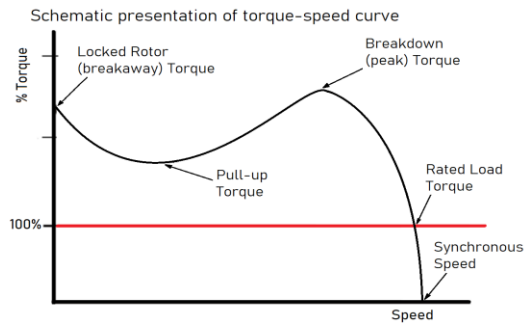
All performance values at rated voltage and frequency.  
 All performance parameters are subjected to standard tolerance as per IEC 60034-1  
 Voltage, Frequency are as per IEC60034-1  
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

|            |                  |               |
|------------|------------------|---------------|
| 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>IM3041-FF215</b>           |
| Cooling method                     | <b>IC411</b>                  |
| Motor weight - approx.             | <b>47 kg</b>                  |
| Gross weight - approx.             | <b>48 kg</b>                  |
| Motor inertia                      | <b>0,0170 kgm<sup>2</sup></b> |
| Vibration level                    | <b>according IEC60034-14</b>  |
| Noise level (pressure) acc 60034-9 | <b>65 dB(A)</b>               |

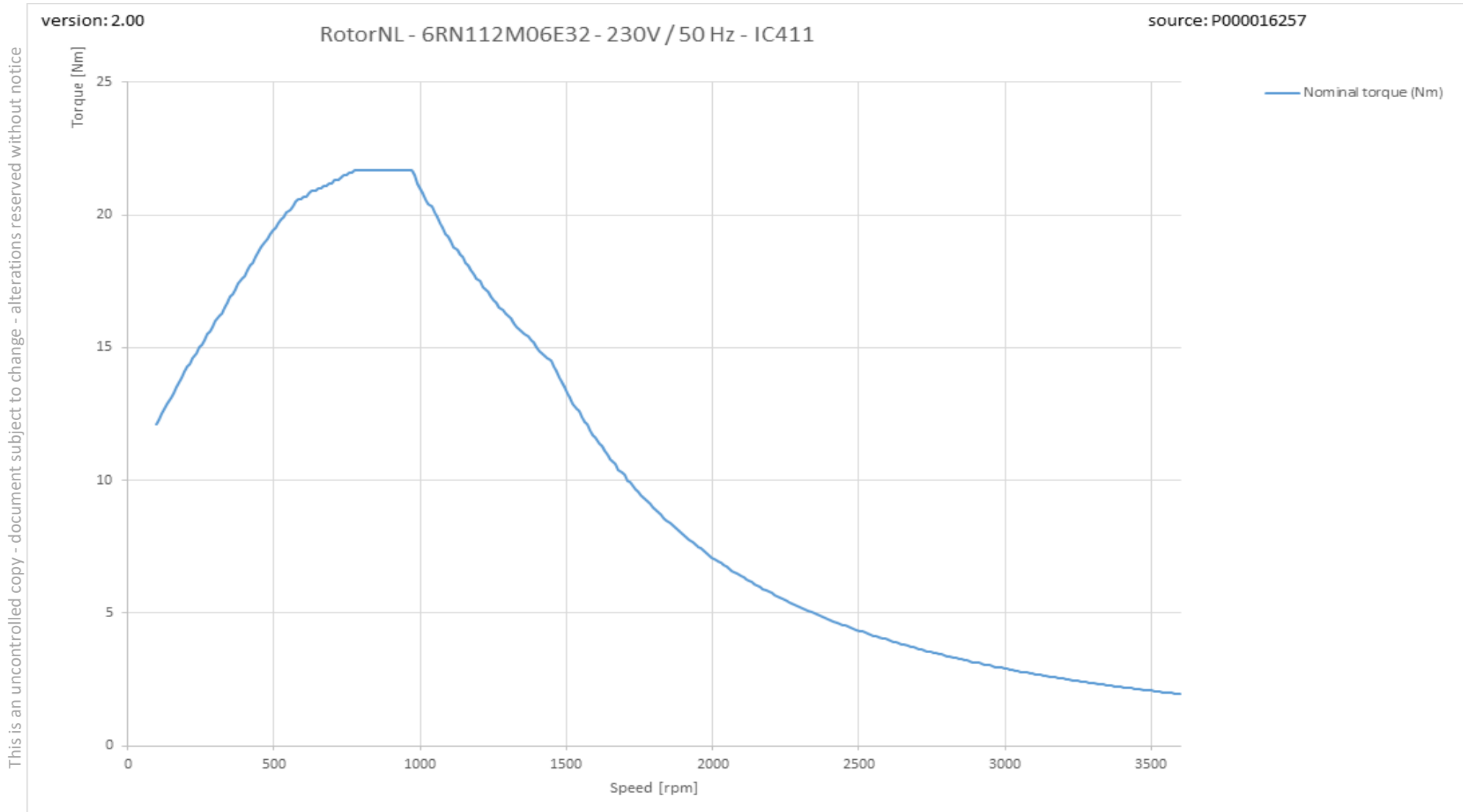
|                       |                 |
|-----------------------|-----------------|
| Direction of rotation | <b>cw / ccw</b> |
|-----------------------|-----------------|



6RN112M06E32 6-pole 2,20kW D/Y 230/400V 50Hz S1 IC411 IE3

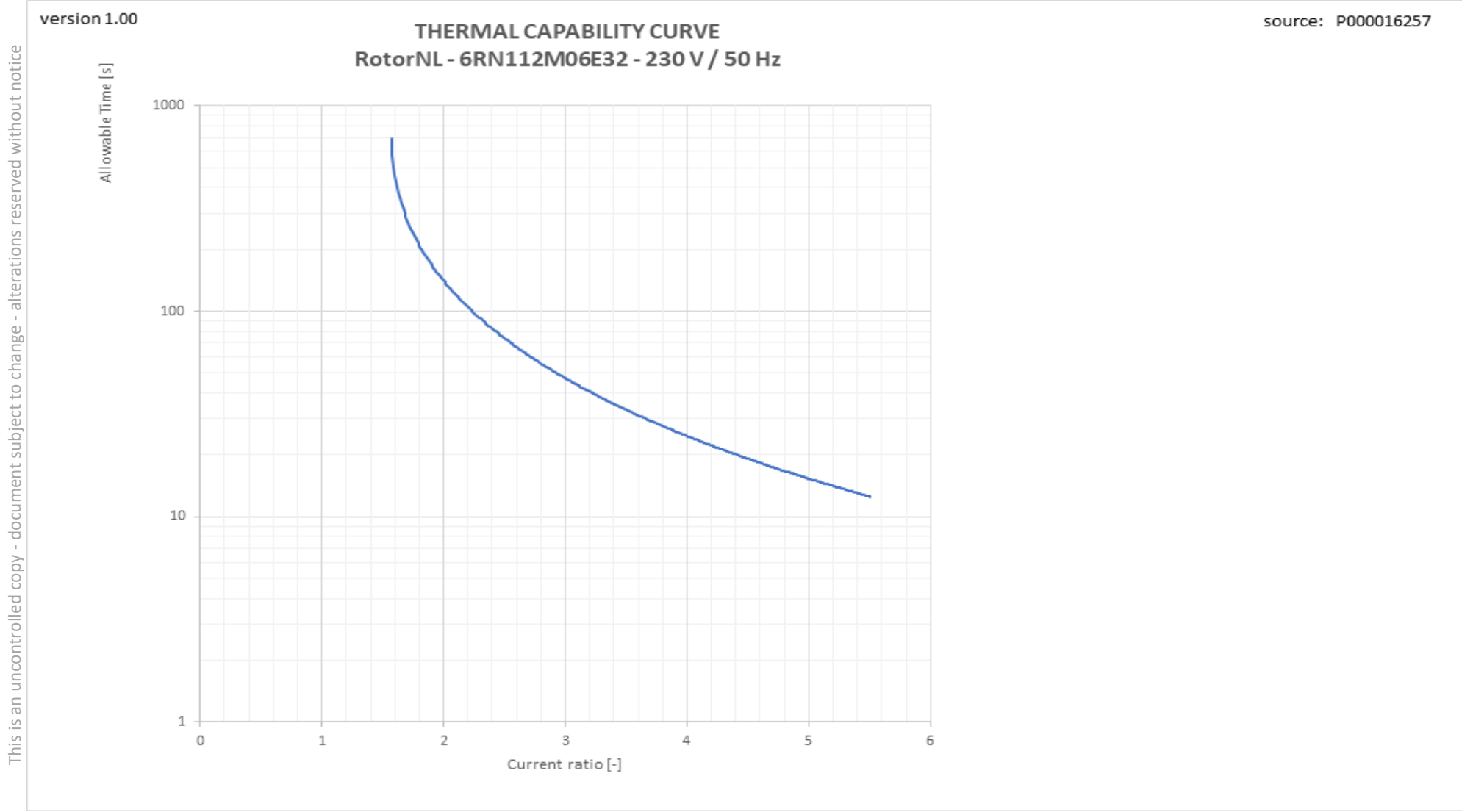


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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Tn graph

