

# PRODUCT INFORMATION PACKET



Model No: 6RN200L06E44U463021

Catalog No: 6RN200L06E44U46@3021

18.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,  
200L Frame B5, IC411



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## Nameplate Specifications

|                        |                             |                            |                             |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP              | 25.00 Hp                    | Output KW                  | 18.5 kW                     |
| Frequency              | 50 Hz                       | Voltage                    | D400/Y690 V                 |
| Current                | 37.00 A                     | Speed                      | 980 rpm                     |
| Service Factor         | 1                           | Phase                      | 3                           |
| Efficiency             | 93.4 %                      | Power Factor               | 0.77                        |
| Duty                   | S1                          | Insulation Class           | F                           |
| Frame                  | 200L                        | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection               | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6312-2Z/C3WT (-40°C/+160°C) | Opp Drive End Bearing Size | 6312-2Z/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           | 6             | Rotation          | Clockwise Shaft End |
| Mounting        | B5            | Motor Orientation | Any                 |
| Frame Material  | Cast iron     | Shaft Type        | Keyed               |

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## Datasheet

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**Model No.** 6-Pole cage motor 6RN 200L 18,5kW D400V 50Hz IM3021-FF350

| 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] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|--------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| 400      | D             | 50        | 18,5      | 24,8      | 37,2     | 980        | 180       | IE4         | 93,5                               | 0,77                           | 6,80                                   | 2,80                                   | 2,90                                   |
| 690      | Y             |           |           |           | 21,4     |            |           |             |                                    |                                |                                        |                                        |                                        |
| 460      | D             | 60        | 18,5      | 24,8      | 32,8     | 1185       | 149       | IE4         | 94,5                               | 0,75                           | 8,11                                   | 3,00                                   | 3,26                                   |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN200L06E44                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 200L                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 18,5 kW                      |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. B (80K)       |
| Temperature rise winding      | 45 K                         |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6312-2Z/C3WT |

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

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,3282 Ohm |
| 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 400V 50Hz | 280%                              | 674%                        |                           | 290%                        | 16,8 A                 |
| @ D 460V 60Hz | 300%                              | 792%                        |                           | 326%                        | 16 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 |

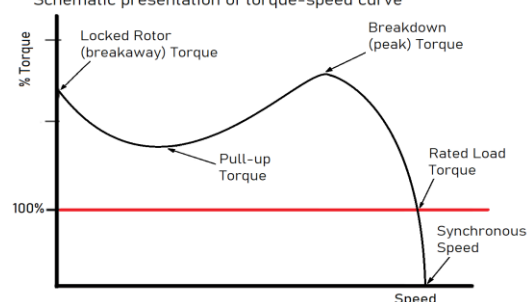
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|                        |              |
|------------------------|--------------|
| Degree of protection   | IP55         |
| Mounting type          | IM3021-FF350 |
| Cooling method         | IC411        |
| Motor weight - approx. | 215 kg       |
| Gross weight - approx. | 221 kg       |

|                 |                       |
|-----------------|-----------------------|
| Vibration level | according IEC60034-14 |
|-----------------|-----------------------|

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

Schematic presentation of torque-speed curve



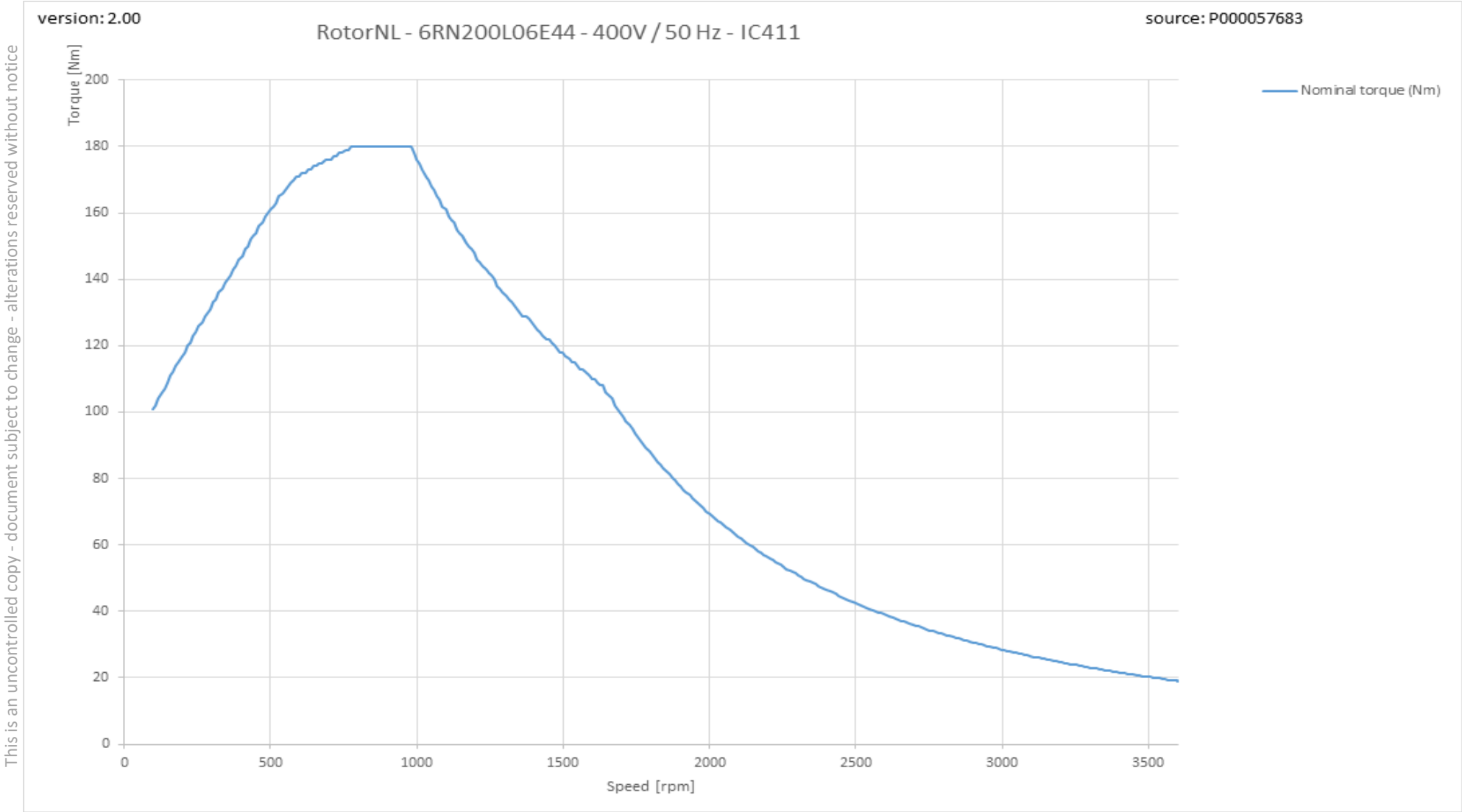
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6RN200L06E44 6-pole 18,50kW D/Y 400/690V 50Hz S1 IC411 IE4

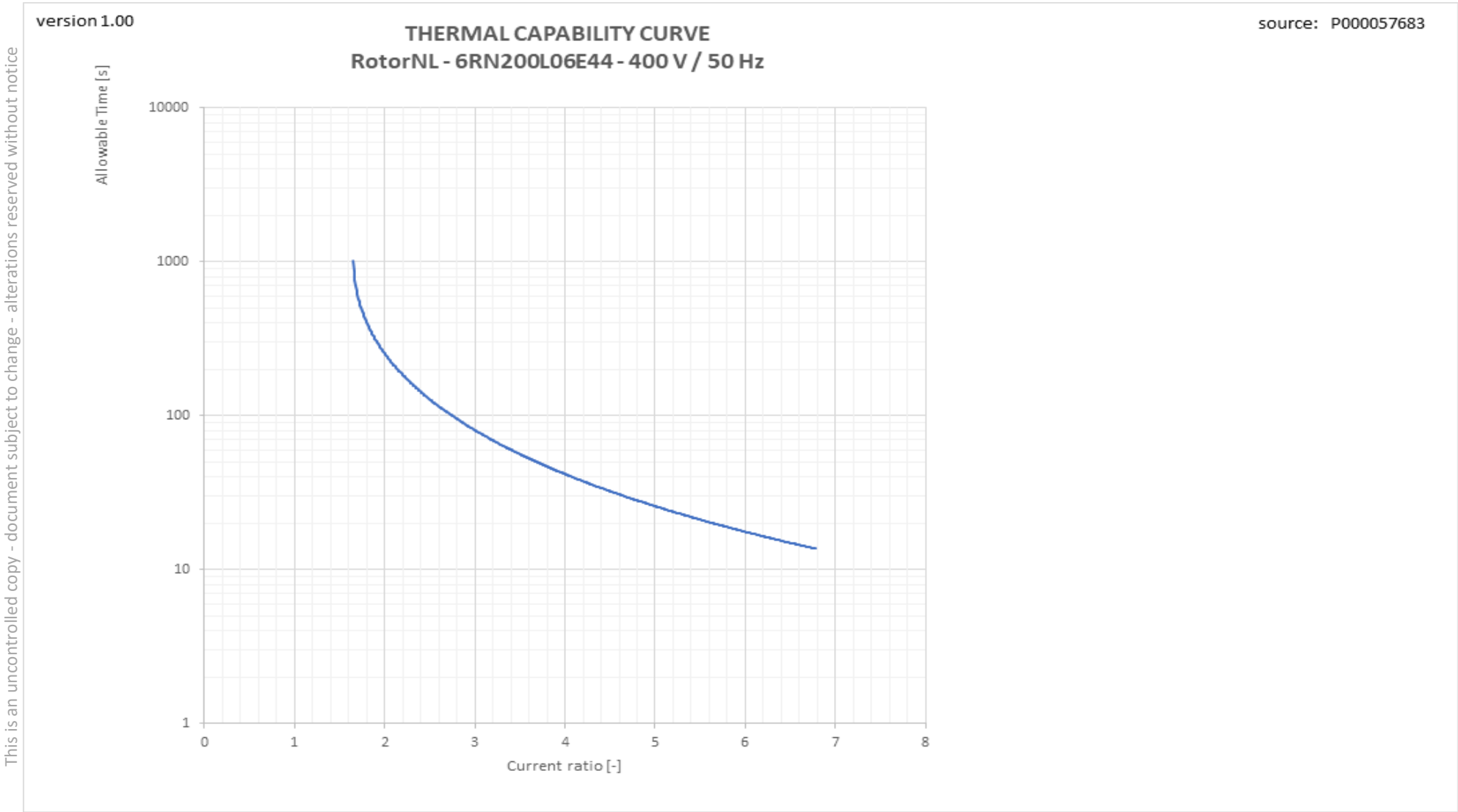


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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