

# PRODUCT INFORMATION PACKET



Model No: 6RN160M04E42U241081

Catalog No: 6RN160M04E42U24@1081

11.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D230/Y400V 50Hz,  
160M Frame B3, IC411

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## Nameplate Specifications

## Technical Specifications

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## Datasheet

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Model No. 4-Pole cage motor 6RN 160M 11kW D230V 50Hz IM1081

| 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        | 11        | 15        | 36       | 1479       | 71        | IE4         | 93,4                               | 0,83                           | 9,12                                   | 2,84                                   | 4,02                                   |
| 400      | Y             |           |           |           | 21       |            |           |             |                                    |                                |  |  |  |
|          |               |           |           |           |          |            |           |             |                                    |                                |  |  |  |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN160M04E42                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 160M                         |
| Duty                          | S1                           |
| Voltage                       | 230 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 11 kW                        |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. B (80K)       |
| Temperature rise winding      | 35 K                         |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6309-2Z/C3WT |

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

|                   |    |
|-------------------|----|
| 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 230V 50Hz | 284%                              | 911%                        | 266%                      | 402%                        | 16,5 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.

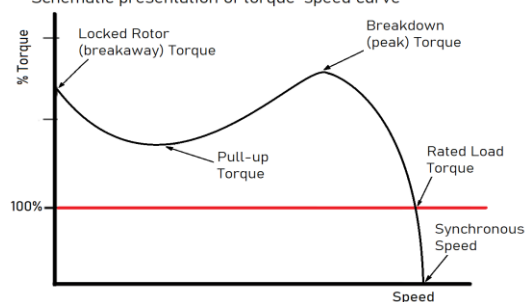
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|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM1081                  |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 127 kg                  |
| Gross weight - approx.             | 131 kg                  |
| Motor inertia                      | 0,0990 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 63 dB(A)                |

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

Schematic presentation of torque-speed curve



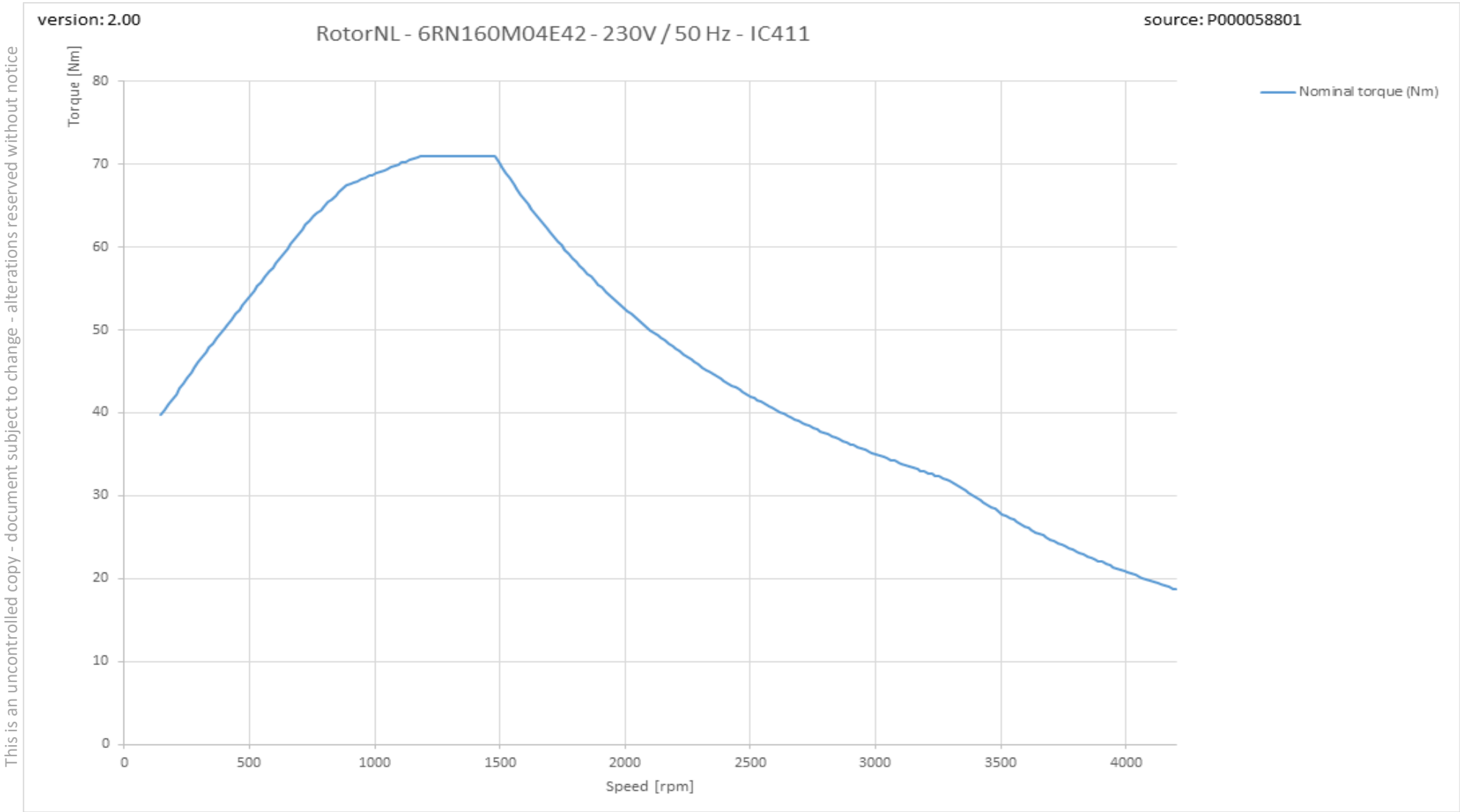
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6RN160M04E42 4-pole 11,00kW D/Y 230/400V 50Hz S1 IC411 IE4

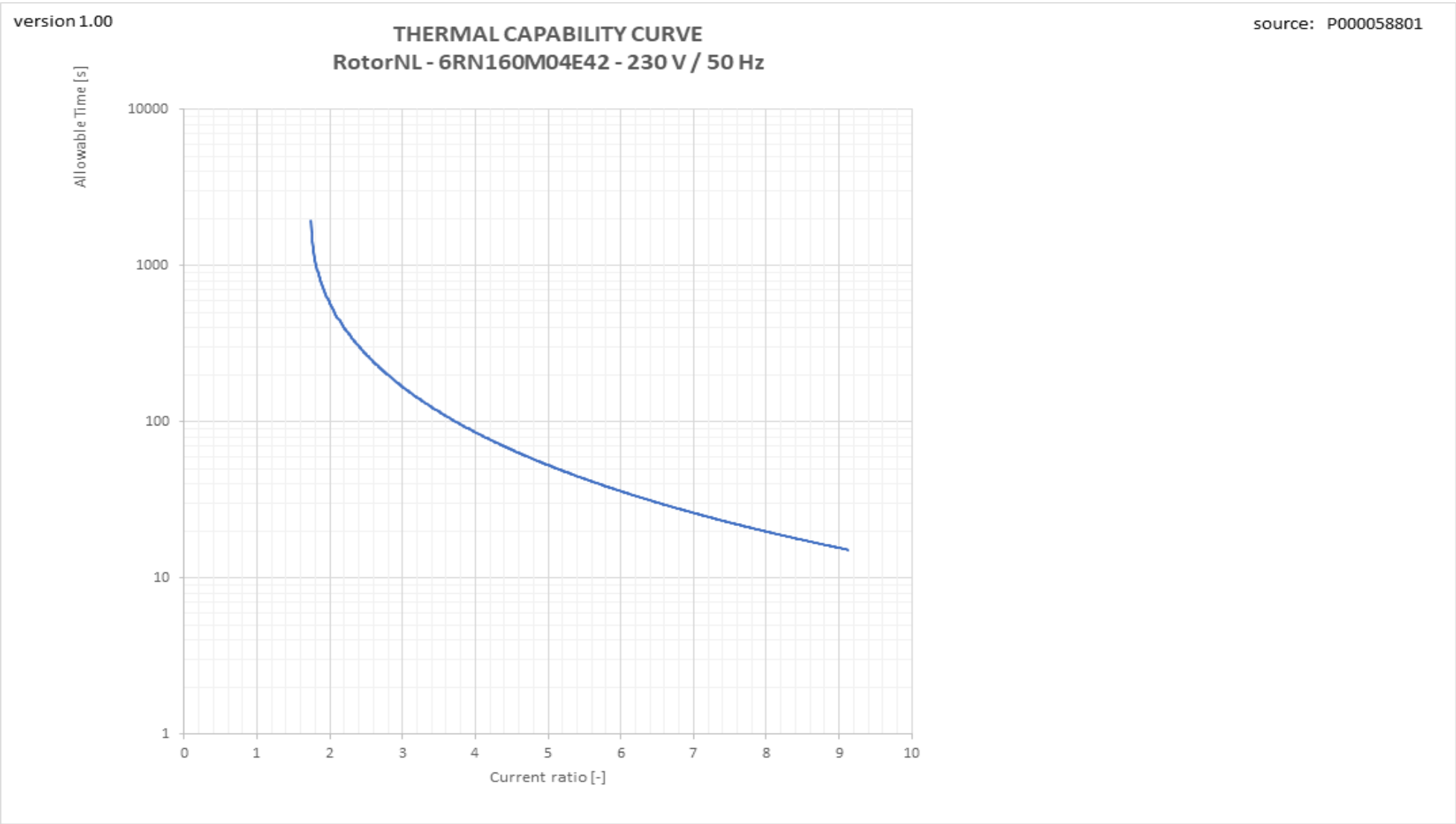


Torque versus Speed curve with variable frequency drive



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Therm\_VSD graph



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