

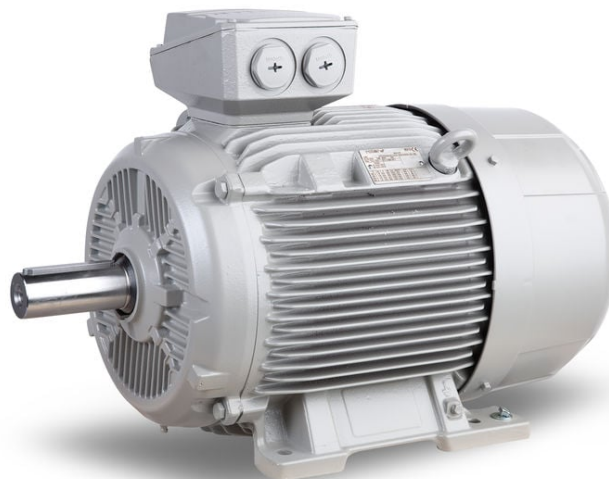
# PRODUCT INFORMATION PACKET



Model No: 6RN180L06E44U461041

Catalog No: 6RN180L06E44U46@1041

15.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,  
180L Frame B3, IC411



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## Nameplate Specifications

## Technical Specifications

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## Datasheet

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Model No. 6-Pole cage motor 6RN 180L 15kW D400V 50Hz IM1041

| 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        | 15        | 20        | 30,5     | 978        | 146       | IE3         | 92,9                               | 0,76                            | 7,66                                   | 2,85                                   | 3,65                                   |
| 690      | Y             |           |           |           | 17,6     |            |           |             |                                    |                                 |                                        |                                        |                                        |
|          |               |           |           |           |          |            |           |             |                                    |                                 |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN180L06E44                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 180L                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 15 kW                        |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | temp.rise acc. B (80K)       |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|              |              |
|--------------|--------------|
| Rotor type   | Cage motor   |
| Bearing type | 6310-2Z/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 400V 50Hz | 285%                              | 763%                        |                           | 365%                        | 15,5 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.

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

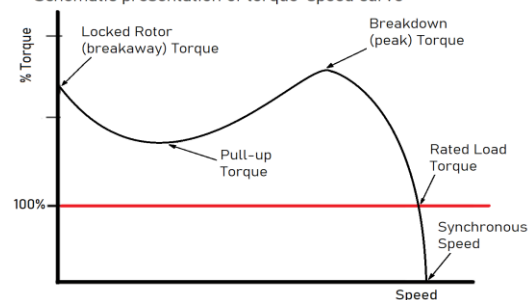
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|                        |        |
|------------------------|--------|
| Degree of protection   | IP55   |
| Mounting type          | IM1041 |
| Cooling method         | IC411  |
| Motor weight - approx. | 180 kg |
| Gross weight - approx. | 185 kg |

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

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

Schematic presentation of torque-speed curve



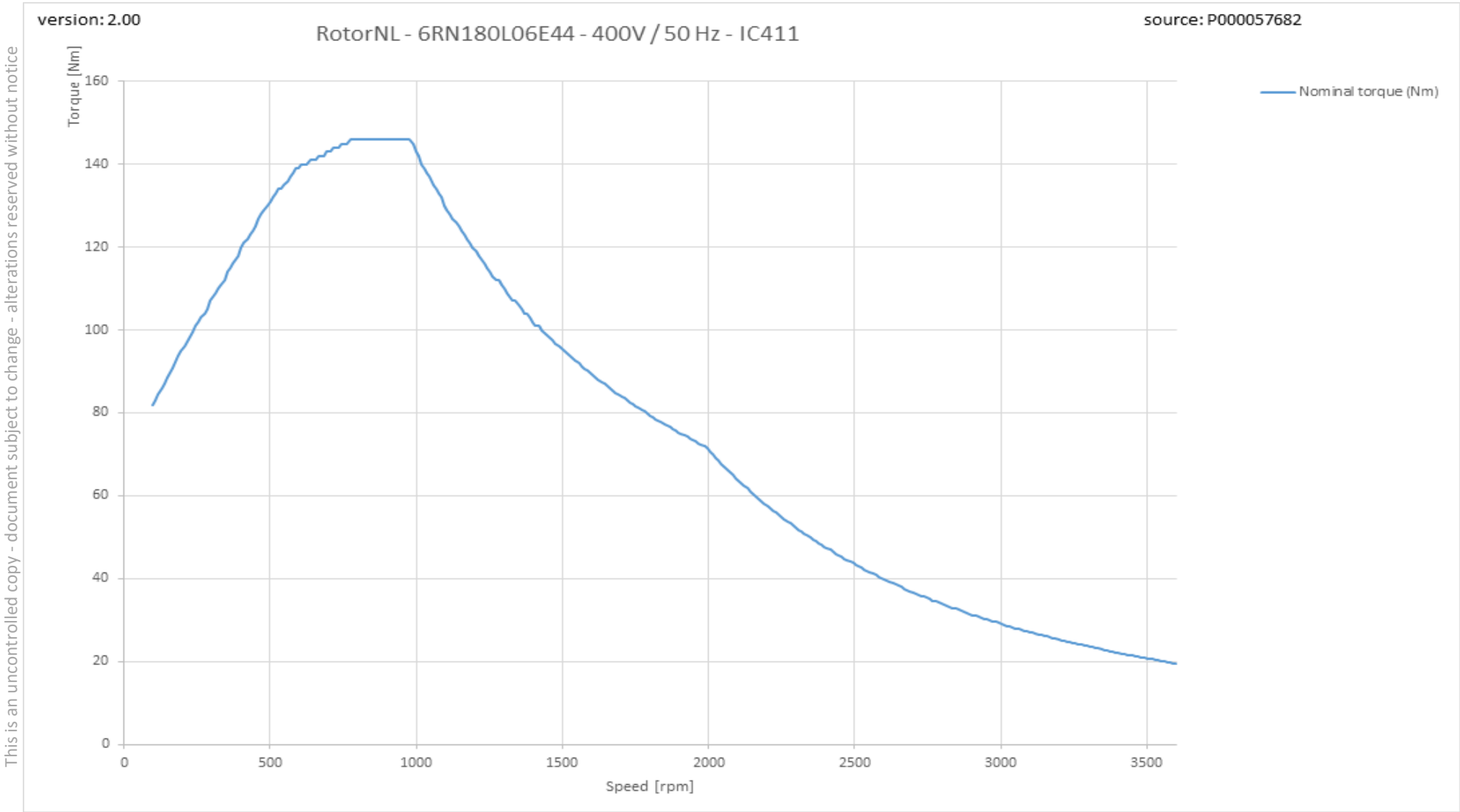
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6RN180L06E44 6-pole 15,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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