

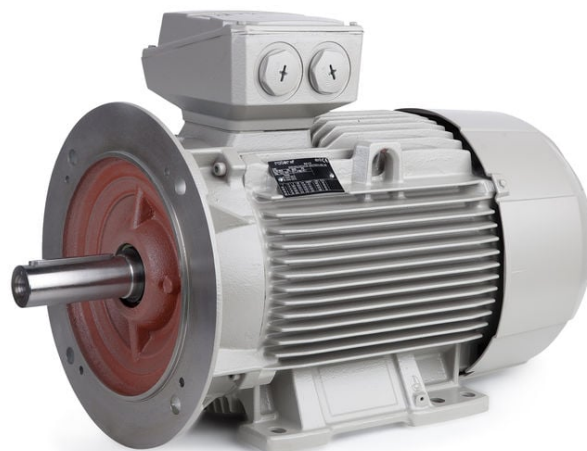
# PRODUCT INFORMATION PACKET



Model No: 6RN160L06E34U24B2081

Catalog No: 6RN160L06E34U24B@2081

11.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D230/Y400V 50Hz,  
160L Frame B35, IC411



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## Nameplate Specifications

|                        |                             |                            |                             |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP              | 15.00 Hp                    | Output KW                  | 11.0 kW                     |
| Frequency              | 50 Hz                       | Voltage                    | D230/Y400 V                 |
| Current                | 38.73 A                     | Speed                      | 975 rpm                     |
| Service Factor         | 1                           | Phase                      | 3                           |
| Efficiency             | 90.3 %                      | Power Factor               | 0.80                        |
| Duty                   | S1                          | Insulation Class           | F                           |
| Frame                  | 160L                        | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection               | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6309-2Z/C3WT (-40°C/+160°C) | Opp Drive End Bearing Size | 6309-2Z/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        | B35               | Motor Orientation | Any                 |
| Frame Material  | Cast iron         | Shaft Type        | Keyed               |
| Shaft Diameter  | 42 mm             | Shaft Extension   | 110 mm              |
| Outline Drawing | 6RN160L06E34_1041 |                   |                     |

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## Datasheet

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**Model No.** 6-Pole cage motor 6RN 160L 11kW D230V 50Hz IM2081-FF300

| 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        | 38,7     | 975        | 108       | IE3         | 89,8                               | 0,80                           | 6,60                                   | 1,80                                   | 3,00                                   |
| 400      | Y             |           |           |           | 12,9     |            |           |             |                                    |                                |                                        |                                        |                                        |
|          |               |           |           |           |          |            |           |             |                                    |                                |                                        |                                        |                                        |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN160L06E34                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 160L                         |
| 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      | 48 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 |
|----------------|-----------|

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,2870 Ohm |
| Country of origin        | CZ         |

| Voltage/Freq  | Locked rotor<br>Torque<br>[% nom] | Starting<br>current<br>[% nom] | Pull-up<br>Torque<br>[% nom] | Breakdown<br>Torque<br>[% nom] | No-load<br>Current<br>[A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|---------------------------|
| @ D 230V 50Hz | 180%                              | 651%                           | 160%                         | 300%                           | 17,3 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.

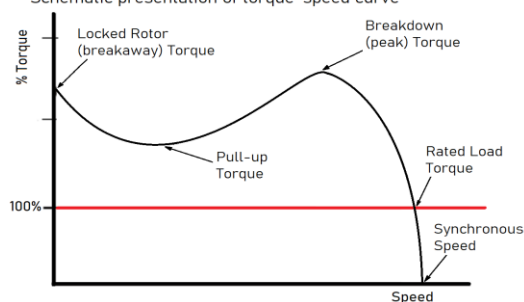
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|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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|                                    |                         |
|------------------------------------|-------------------------|
| Degree of protection               | IP55                    |
| Mounting type                      | IM2081-FF300            |
| Cooling method                     | IC411                   |
| Motor weight - approx.             | 118 kg                  |
| Gross weight - approx.             | 122 kg                  |
| Motor inertia                      | 0,1200 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14   |
| Noise level (pressure) acc 60034-9 | 67 dB(A)                |

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

Schematic presentation of torque-speed curve



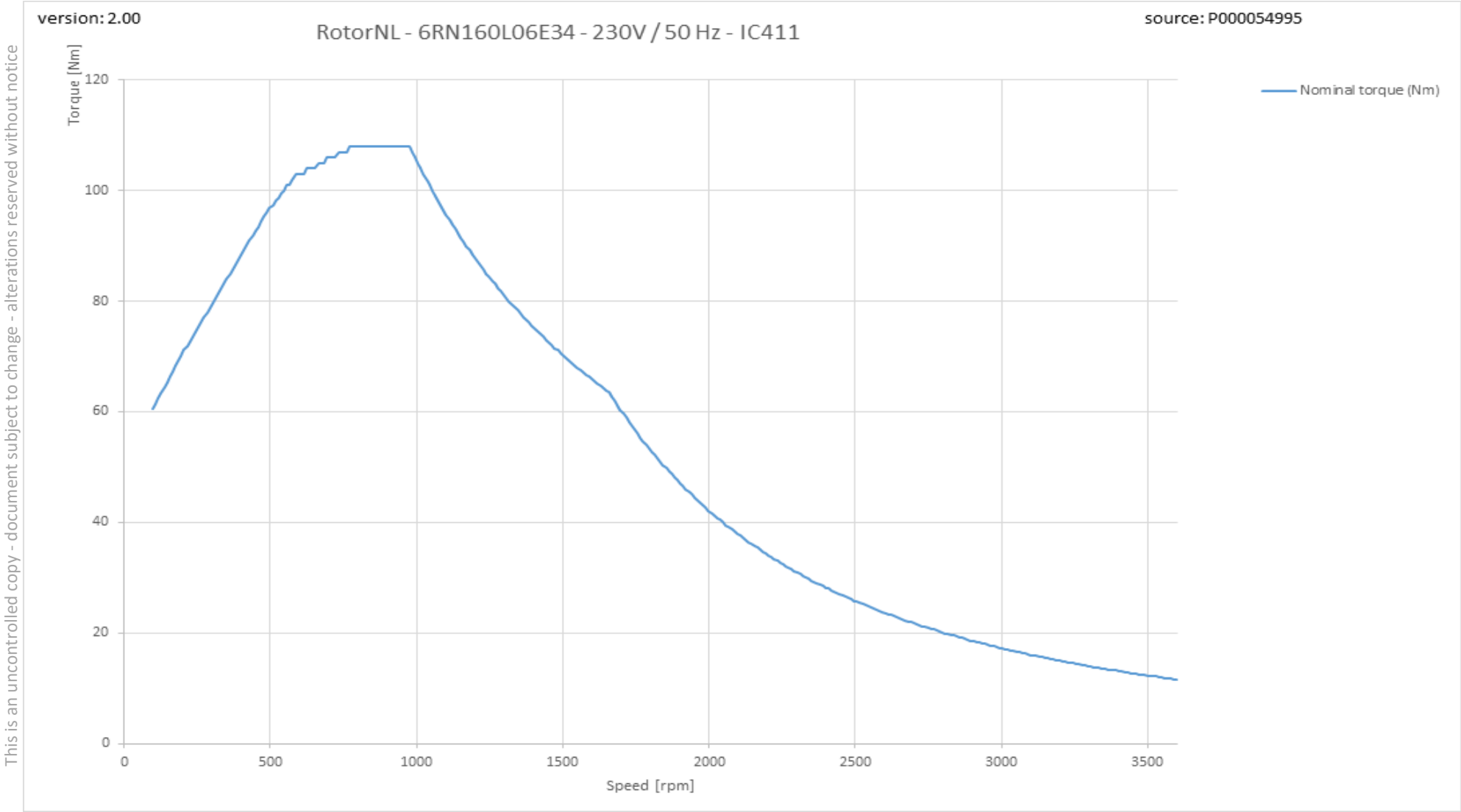
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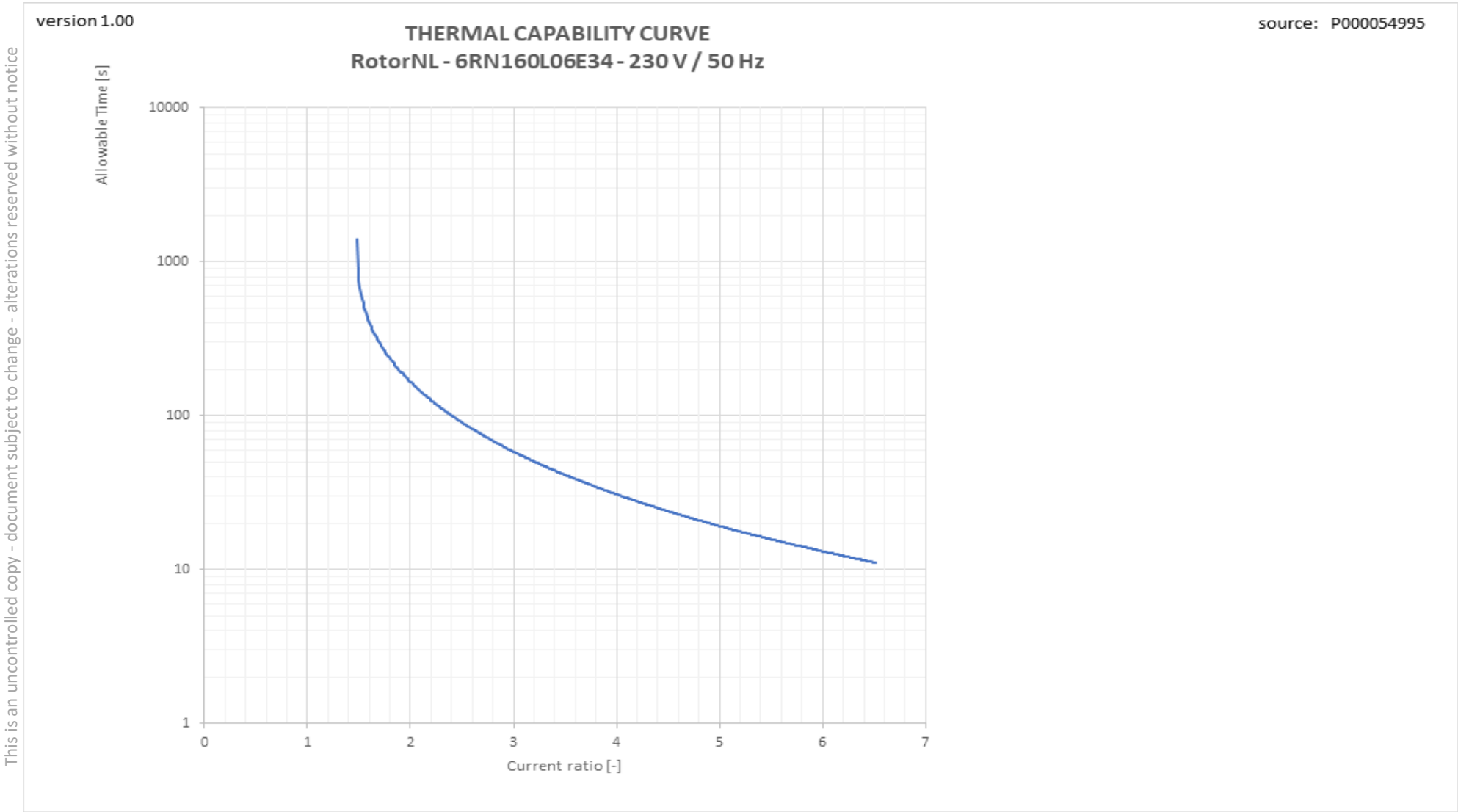
6RN160L06E34 6-pole 11,00kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive

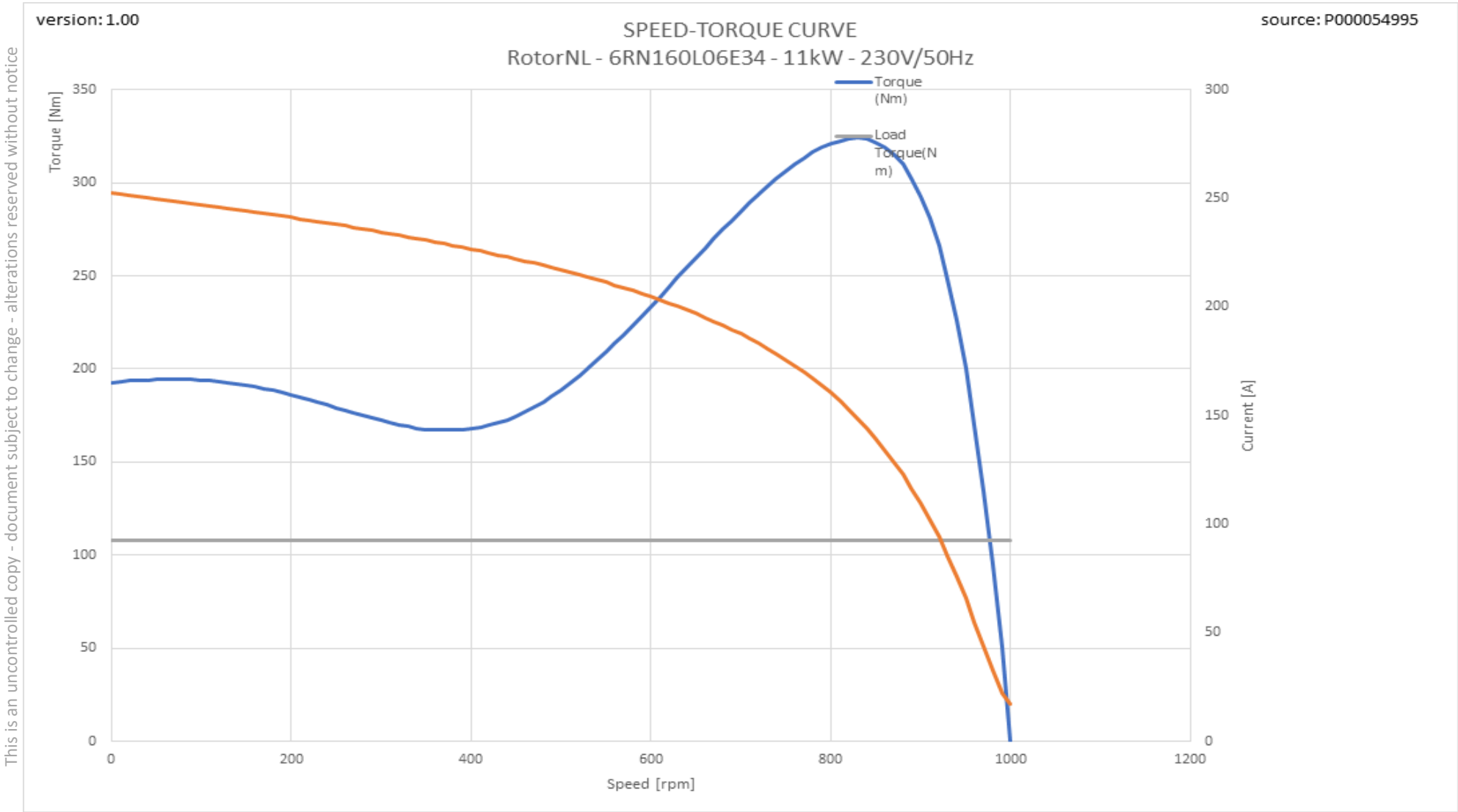


Therm\_VSD graph



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Tn graph



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