

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN80M02E32U24B3641-A
Catalog No: 6RN80M02E32U24B@3641-A

0.75 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D230/Y400V 50Hz,
80M Frame B14, IC411



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Nameplate Specifications

| | | | |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP | 1.00 Hp | Output KW | 0.75 kW |
| Frequency | 50 Hz | Voltage | D230/Y400 V |
| Current | 2.75 A | Speed | 2850 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 80.7 % | Power Factor | 0.86 |
| Duty | S1 | Insulation Class | F |
| Frame | 80M | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6204-2Z/C3WT (-40°C/+160°C) | Opp Drive End Bearing Size | 6004-2Z/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 | 2 | Rotation | Clockwise Shaft End |
| Mounting | B14 | Motor Orientation | Any |
| Frame Material | Cast iron | Shaft Type | Keyed |
| Shaft Diameter | 19 mm | Shaft Extension | 40 mm |
| Outline Drawing | 6RN80M02E32_3641-A | | |

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Datasheet



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Model No. 2-Pole cage motor 6RN 80M 0,75kW D230V 50Hz IM3641-FT100

| U (V) | Δ / Y Conn | f [Hz] | P | | I [A] | n [RPM] | T [Nm] | IE Class | % EFF at __ load | | | PF at __load | | | I _A /I _N [pu] | T _A /T _N [pu] | T _R /T _N [pu] |
|----------|---------------|-----------|------|-------|----------|------------|-----------|-------------|------------------|-------|-------|--------------|-------|-------|--|--|--|
| | | | [kW] | [hp] | | | | | FL | 3/4FL | 1/2FL | FL | 3/4FL | 1/2FL | | | |
| 230 | D | 50 | 0,75 | 1 | 2,75 | 2850 | 2,5 | IE3 | 80,7 | 82,0 | 81,5 | 0,86 | 0,82 | 0,73 | 6,20 | 2,60 | 3,00 |
| 400 | Y | | | | 1,6 | | | | | | | | | | | | |
| 265 | D | 60 | 0,86 | 1,153 | 2,85 | 3450 | 2,4 | IE3 | 77,0 | 78,0 | 77,0 | 0,86 | 0,83 | 0,75 | 6,40 | 2,60 | 3,10 |
| 460 | Y | | | | 1,65 | | | | | | | | | | | | |

| | |
|-------------------------------|-------------------------------------|
| Motor type | 6RN80M02E32 |
| Enclosure | Totally Enclosed Fan Cooling |
| Frame Material | Aluminum |
| Frame size | 80M |
| Duty | S1 |
| Voltage | 230 V |
| Frequency | 50 Hz |
| Power output | 0,75 kW |
| Insulation class | F |
| Ambient temperature | -20 till 40 °C |
| Temperature rise | temp.rise acc. B (80K) |
| Temperature rise winding | 62 K |
| Temperature rise surface | 21 K |
| Altitude above sea level | 1000 mtr |
| Hazardous area classification | Safe area |

| | |
|--------------|---------------------|
| Rotor type | Cage motor |
| Bearing type | 6004-2Z/C3WT |

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

| | |
|--------------------------|-------------------|
| Phase resistance at 20°C | 8,4000 Ohm |
| Country of origin | CZ |

| Voltage/Freq | Locked rotor Torque [nom] [%] | Starting current [% nom] | Pull-up Torque [% nom] | Breakdown Torque [% nom] | No-load Current [A] |
|---------------|-------------------------------|--------------------------|------------------------|--------------------------|---------------------|
| @ D 230V 50Hz | 260% | 621% | 200% | 300% | 1,4 A |
| @ D 265V 60Hz | 260% | 638% | | 310% | 1,3 A |

NOTE

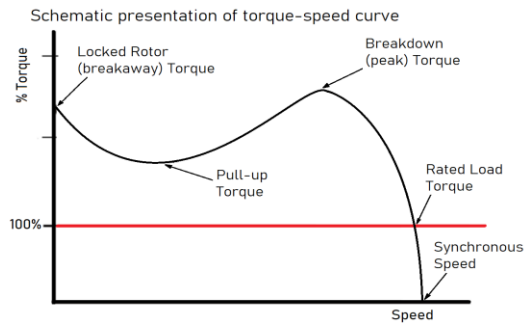
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

This is an uncontrolled copy, data can be changed anytime.

| | |
|------------------------|-------------------------------|
| Degree of protection | IP55 |
| Mounting type | IM3641-FT100 |
| Cooling method | IC411 |
| Motor weight - approx. | 11 kg |
| Gross weight - approx. | 11 kg |
| Motor inertia | 0,0011 kgm² |
| Vibration level | according IEC60034-14 |

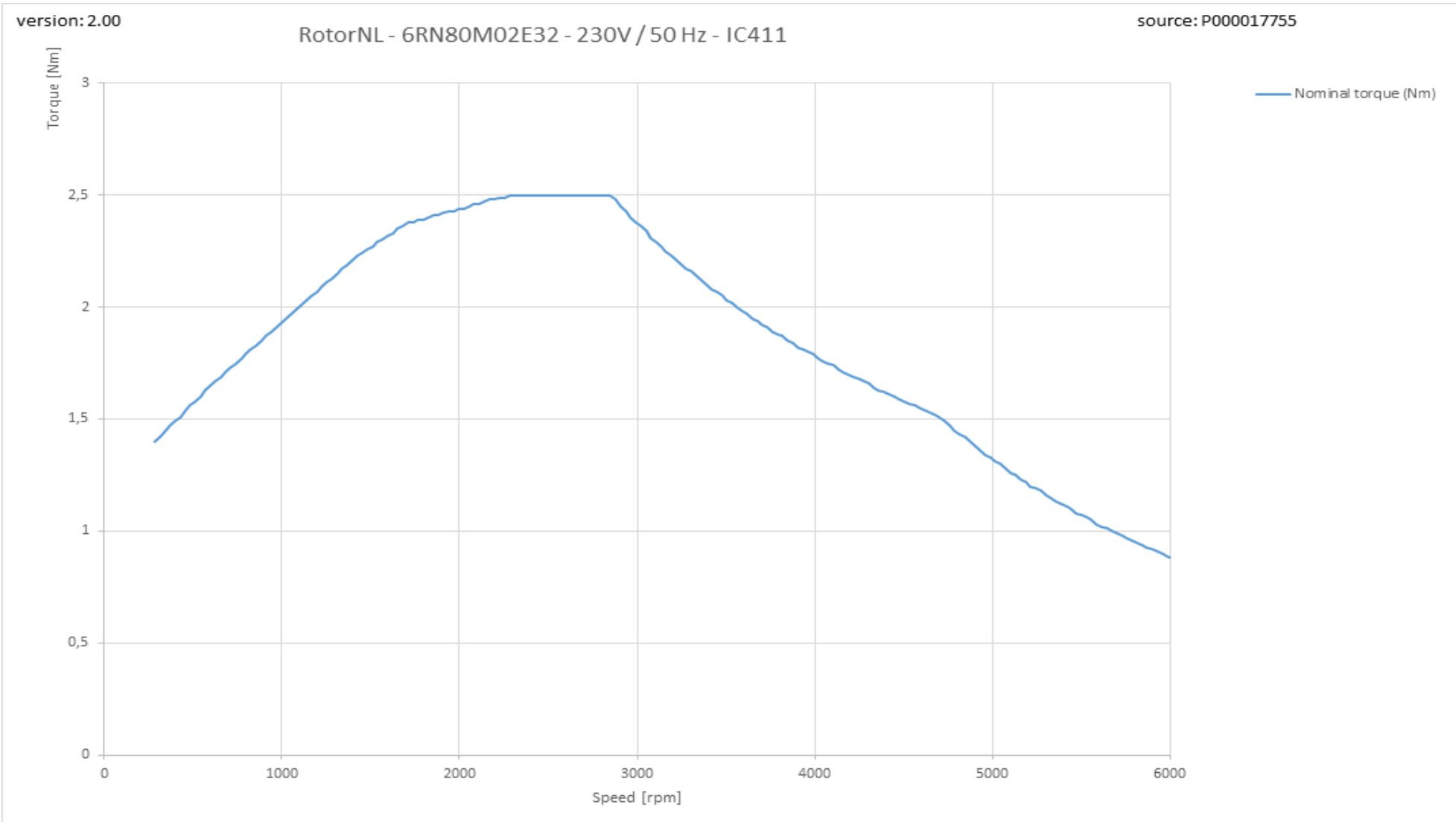
| | |
|-----------------------|-----------------|
| Direction of rotation | cw / ccw |
|-----------------------|-----------------|



6RN80M02E32 2-pole 0,75kW D/Y 230/400V 50Hz S1 IC411 IE3



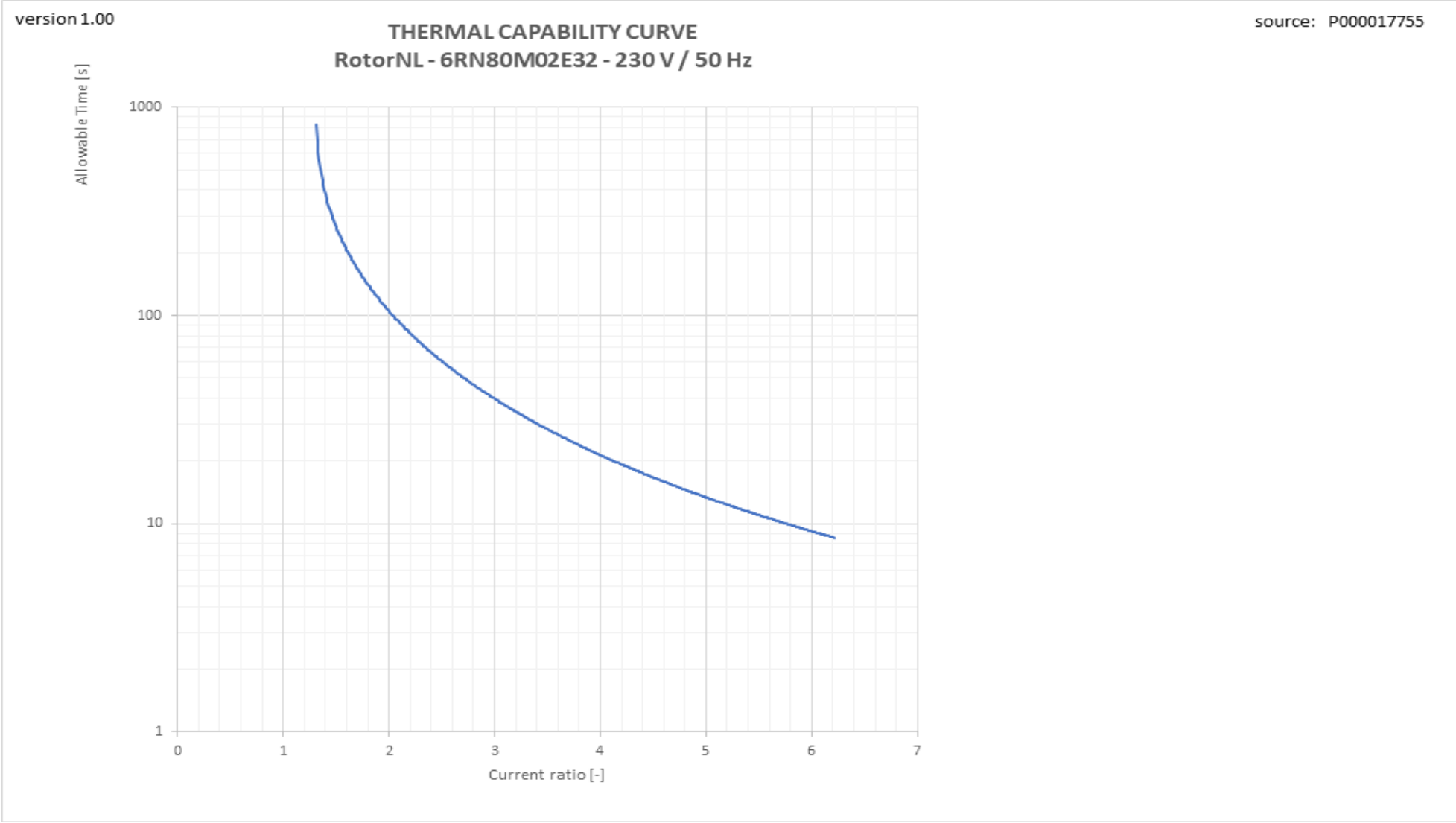
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

