

PRODUCT INFORMATION PACKET



Model No: 6RN80M04E33U241081-Uni

Catalog No: 6RN80M04E33U24@1081-Uni

0.75 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D230/Y400V 50Hz,
80M Frame B3, IC411

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Nameplate Specifications

| | | | |
|------------------------|-----------------------------|----------------------------|-----------------------------|
| Output HP | 1 Hp | Output KW | 0.75 kW |
| Frequency | 50 Hz | Voltage | D230/Y400 V |
| Current | 3.00 A | Speed | 1450 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 82.5 % | Power Factor | 0.75 |
| 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 | 4 | Rotation | Clockwise Shaft End |
| Mounting | B3 | Motor Orientation | Any |
| Frame Material | Cast iron | Shaft Type | Keyed |
| Shaft Diameter | 19 mm | Shaft Extension | 40 mm |

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Model No. 4-Pole cage motor 6RN 80M 0,75kW D230V 50Hz IM1081

| U (V) | Δ / Y Conn | f [Hz] | P [kW] | P [hp] | I [A] | n [RPM] | T [Nm] | IE Class | % EFF at __ load FL 3/4FL 1/2FL | | | PF at __load FL 3/4FL 1/2FL | | | I _A /I _N [pu] | T _A /T _N [pu] | T _K /T _N [pu] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------------------------|--|--|--------------------------------|--|--|--|--|--|
| 230 | D | 50 | 0,75 | 1 | 3 | 1450 | 4,9 | IE3 | 83,1 | | | 0,75 | | | 7,10 | 2,70 | 3,90 |
| 400 | Y | | | | 1,75 | | | | | | | | | | | | |
| 265 | D | 60 | 0,86 | 1,153 | 2,98 | 1750 | 4,7 | IE2 | 84,9 | | | 0,75 | | | 7,58 | 2,70 | 3,92 |
| 460 | Y | | | | 1,75 | | | | | | | | | | | | |

| | |
|----------------|------------------------------|
| Motor type | 6RN80M04E33 |
| Enclosure | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron |
| 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 winding | 23 K |
|--------------------------|------|

| | |
|-------------------------------|-----------|
| Altitude above sea level | 1000 mtr |
| Hazardous area classification | Safe area |

| | |
|--------------|--|
| Rotor type | Cage motor |
| Bearing type | Rolling element bearing 6204-2Z/C3WT - 6004-2Z/C3WT |

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

| | |
|-------------------|----|
| Country of origin | CZ |
|-------------------|----|

| Torques | Locked rotor | At start | Pull-up | Breakdown | No-load |
|------------|--------------|----------|---------|-----------|---------|
| @230V 50Hz | 270% | 13,2 A | 220% | 390% | 1,94 A |
| @265V 60Hz | 270% | 12,6 A | 234% | 392% | 1,81 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 |

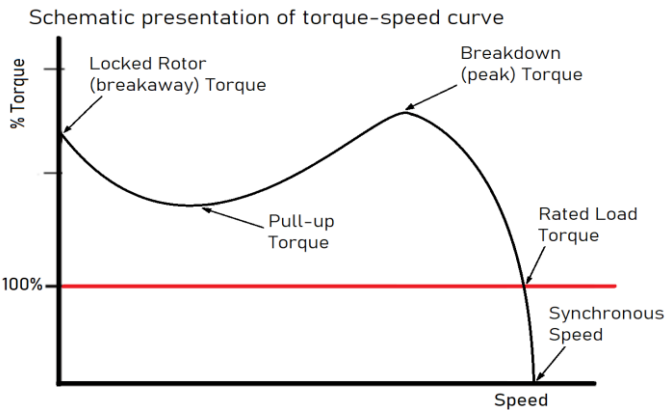
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|------------------------|-------------------------|
| Degree of protection | IP55 |
| Mounting type | IM1081 |
| Cooling method | IC411 |
| Motor weight - approx. | 15 kg |
| Gross weight - approx. | 15 kg |
| Motor inertia | 0,0029 kgm ² |

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

| | |
|-----------------|--------|
| Starting method | d.o.l. |
|-----------------|--------|

| | |
|-----------------------|----------|
| Direction of rotation | cw /ccw |
| Paint shade | RAL 7030 |

| | |
|-----------------------|-------------|
| Terminal box position | Top - Pos 3 |
|-----------------------|-------------|



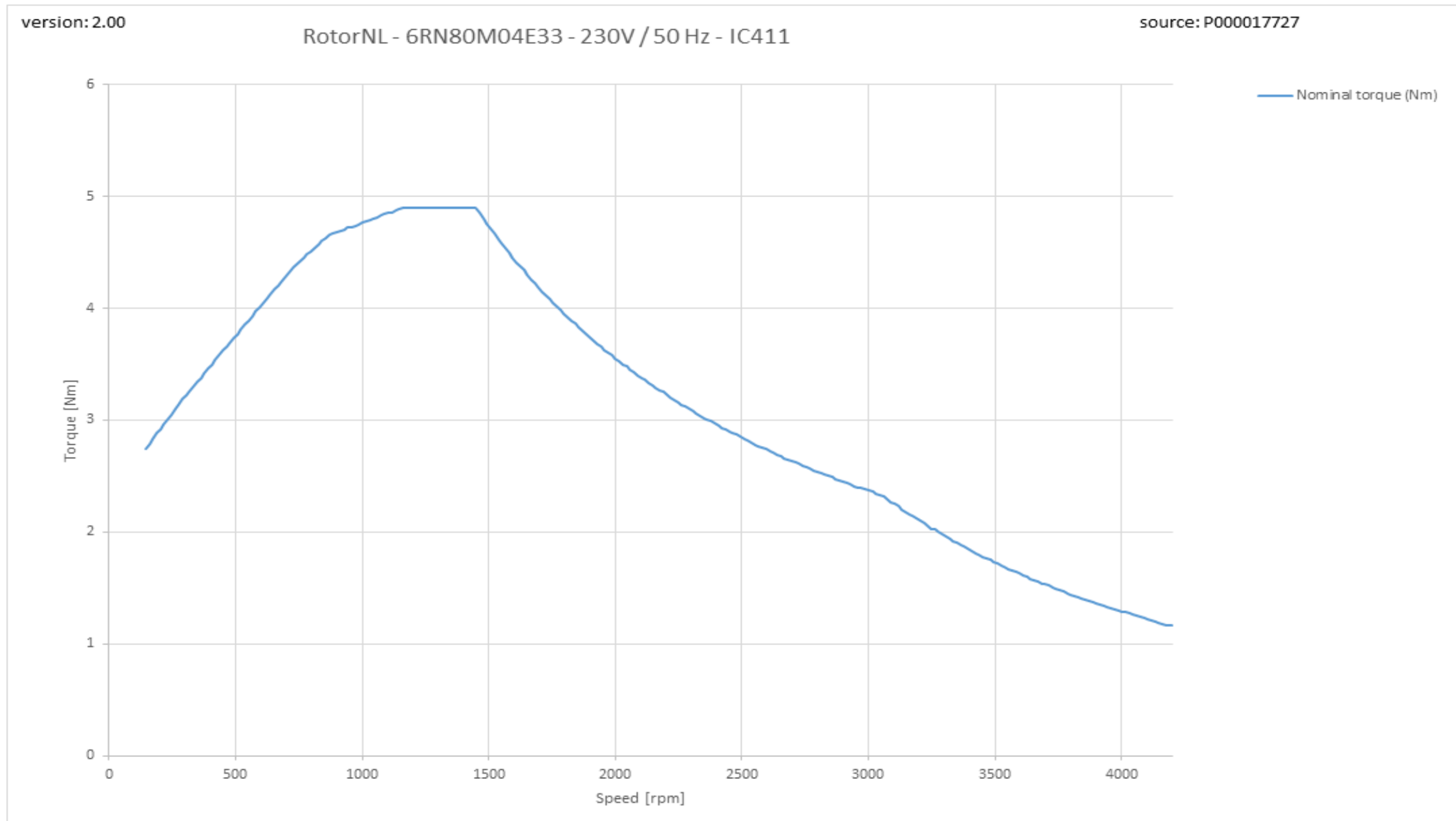
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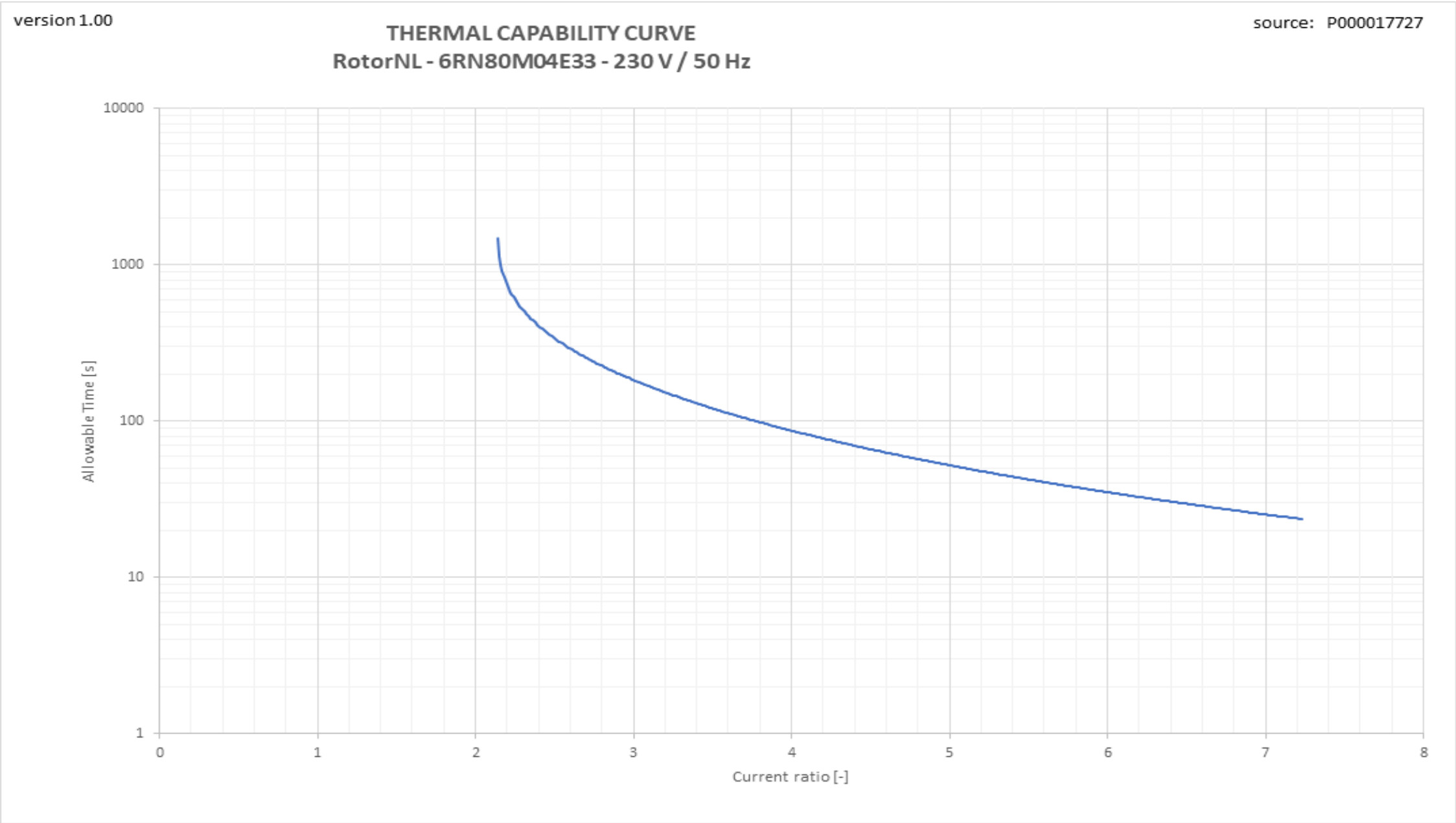
6RN80M04E33 4-pole 0,75kW D/Y 230/400V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



Therm_VSD graph



Tn graph

