

PRODUCT INFORMATION PACKET



Model No: 6RN315M02E42U46B2021

Catalog No: 6RN315M02E42U46B@2021

132.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 3000 rpm, D400/Y690V 50Hz,
315M Frame B35, IC411

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Nameplate Specifications

| | | | |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP | 175.00 Hp | Output KW | 132.0 kW |
| Frequency | 50 Hz | Voltage | D400/Y690 V |
| Current | 220.00 A | Speed | 2988 rpm |
| Service Factor | 1 | Phase | 3 |
| Efficiency | 96.2 % | Power Factor | 0.90 |
| Duty | S1 | Insulation Class | F |
| Frame | 315M | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6316/C3 | Opp Drive End Bearing Size | 6316/C3 |
| UL | No | CSA | Optional |
| CE | Yes | IP Code | IP55 |
| Number of Speeds | 1 | Efficiency Class | IE4 |

Technical Specifications

| | | | |
|-----------------|-------------------|-------------------|---------------------|
| Electrical Type | Squirrel Cage | Starting Method | Direct On Line |
| Poles | 2 | Rotation | Clockwise Shaft End |
| Mounting | B35 | Motor Orientation | Any |
| Frame Material | Cast iron | Shaft Type | Keyed |
| Outline Drawing | 6RN315M02E42_2041 | | |

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Datasheet

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Model No. 2-Pole cage motor 6RN 315M 132kW D400V 50Hz IM2021-FF600

| U (V) | Δ / Y Conn | f [Hz] | P [kW] | P [hp] | 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 _K /T _N [pu] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------|-------|-------|--------------|-------|-------|--|--|--|
| | | | | | | | | | FL | 3/4FL | 1/2FL | FL | 3/4FL | 1/2FL | | | |
| 400 | D | 50 | 132 | 175 | 220 | 2988 | 422 | IE4 | 96,2 | 96,2 | 95,6 | 0,90 | 0,90 | 0,86 | 10,70 | 2,90 | 3,90 |
| 690 | Y | | | | 128 | | | | | | | | | | | | |
| 460 | D | 60 | 148 | 198,4 | 215 | 3588 | 394 | IE4 | 95,8 | 95,8 | 95,2 | 0,90 | 0,89 | 0,85 | 10,70 | 2,90 | 3,90 |

| | |
|-------------------------------|------------------------------|
| Motor type | 6RN315M02E42 |
| Enclosure | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron |
| Frame size | 315M |
| Duty | S1 |
| Voltage | 400 V |
| Frequency | 50 Hz |
| Power output | 132 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 | 6316/C3 |
| Lubrication method | 30gr/3000hrs |
| Type of grease | Unirex N3 |

| | |
|-------------------|----|
| 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 400V 50Hz | 290% | 1068% | | 390% | |
| @ D 460V 60Hz | 290% | | | 390% | |

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 |

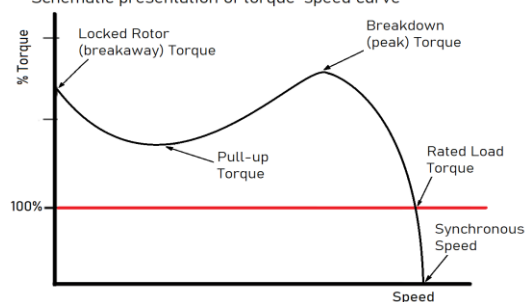
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| | |
|------------------------------------|-------------------------|
| Degree of protection | IP55 |
| Mounting type | IM2021-FF600 |
| Cooling method | IC411 |
| Motor weight - approx. | 980 kg |
| Gross weight - approx. | 1010 kg |
| Motor inertia | 1,9000 kgm ² |
| Vibration level | according IEC60034-14 |
| Noise level (pressure) acc 60034-9 | 82 dB(A) |

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

PTC 150°C

Schematic presentation of torque-speed curve



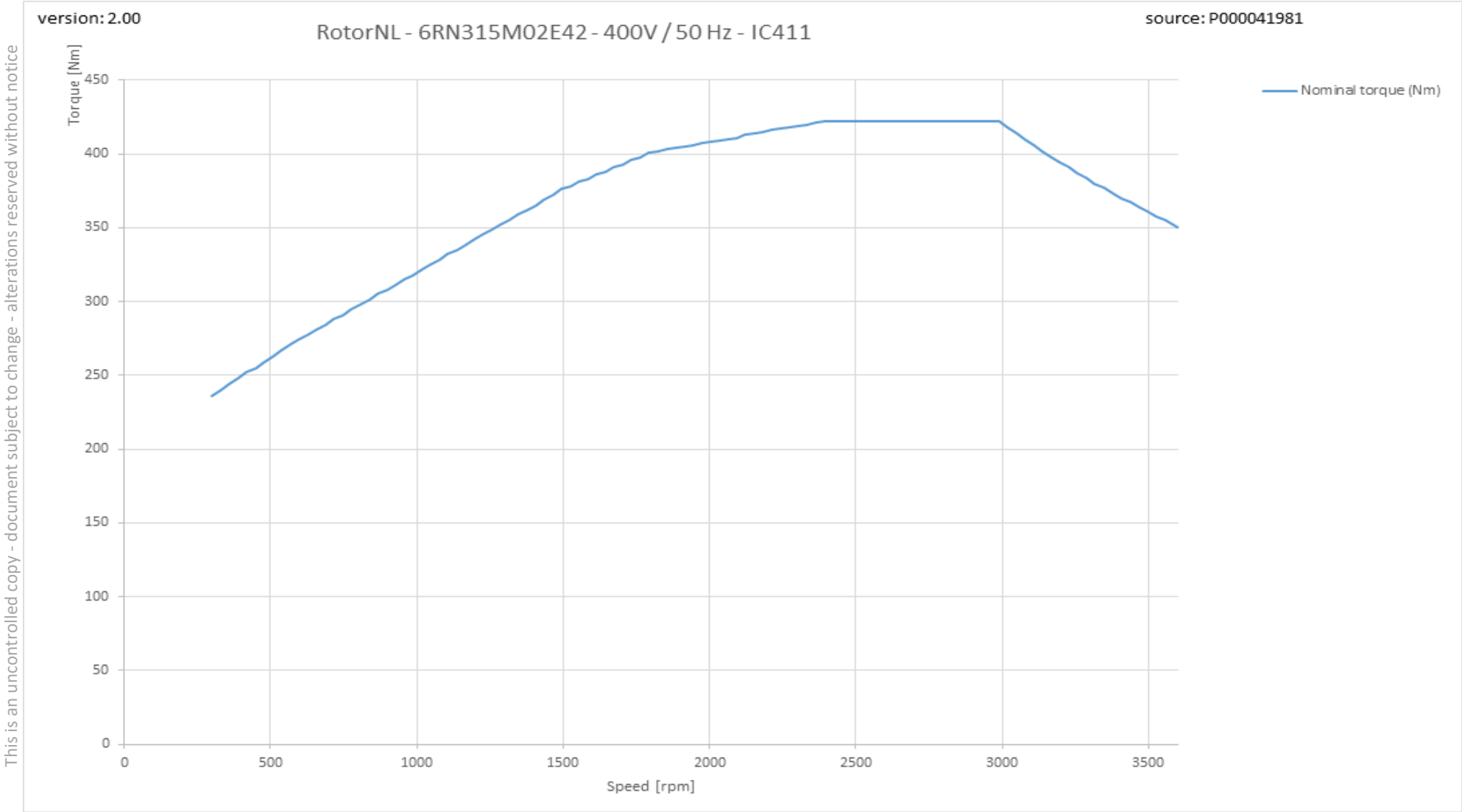
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6RN315M02E42 2-pole 132,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive



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