

# PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN315L02E35PMU461041

Catalog No: 6RN315L02E35PMU46@1041

200.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,  
315L Frame B3, IC411  
Cast Iron Motors



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### Nameplate Specifications

|                            |          |                        |                             |
|----------------------------|----------|------------------------|-----------------------------|
| Output HP                  | 270 Hp   | Output KW              | 200.0 kW                    |
| Frequency                  | 50 Hz    | Voltage                | D400 V                      |
| Current                    | 330.00 A | Speed                  | 2986 rpm                    |
| Service Factor             | 1        | Phase                  | 3                           |
| Efficiency                 | 95.8 %   | Power Factor           | 0.90                        |
| Duty                       | S1       | Insulation Class       | F                           |
| Frame                      | 315L     | Enclosure              | Totally Enclosed Fan Cooled |
| 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           | IE3      |                        |                             |

### Technical Specifications

|                 |               |                   |                     |
|-----------------|---------------|-------------------|---------------------|
| Electrical Type | Squirrel Cage | Starting Method   | Direct On Line      |
| Poles           | 2             | Rotation          | Clockwise Shaft End |
| Mounting        | B3            | Motor Orientation | Any                 |
| Frame Material  | Cast iron     | Shaft Type        | Keyed               |

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Model No. 2-Pole cage motor 6RN 315L 200kW 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        | 200       | 270       | 330      | 2986       | 640       | N/A         | 95,8 95,9 95,5                     | 0,90 0,90 0,90                  |  |  |  |
| 690      |               |           |           |           | 191      |            |           |             |                                    |                                 |  |  |  |
|          |               |           |           |           |          |            |           |             |                                    |                                 |  |  |  |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 6RN315L02E35PM               |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 315L                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 200 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 - 6316/C3            |
| Lubrication method            | 30gr/3000hrs                 |
| Type of grease                | Unirex N3                    |

|                        |                       |
|------------------------|-----------------------|
| Degree of protection   | IP55                  |
| Mounting type          | IM1041                |
| Cooling method         | IC411                 |
| Motor weight - approx. | 1150 kg               |
| Gross weight - approx. | 1180 kg               |
| Vibration level        | according IEC60034-14 |
| Direction of rotation  | cw /ccw               |
|                        | PTC 150°C             |

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 |                                   |                             |                           |                             |                        |
|               |                                   |                             |                           |                             |                        |

#### NOTE

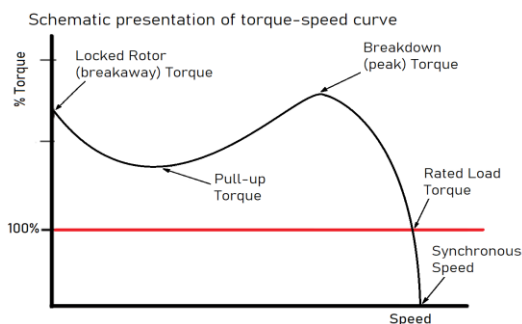
All performance values at rated voltage and frequency.

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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