

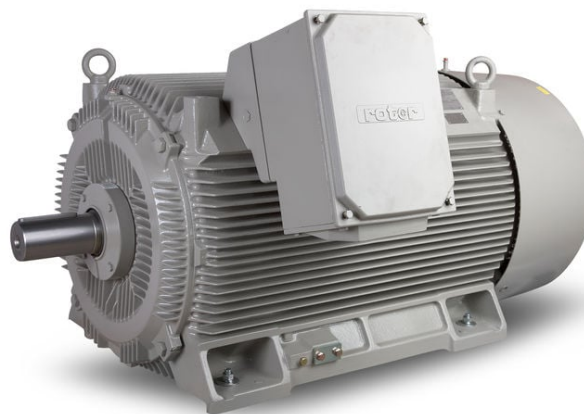
# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN225M02E36U461041

Catalog No: 6RN225M02E36U46@1041

55.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,  
225M Frame B3, IC411



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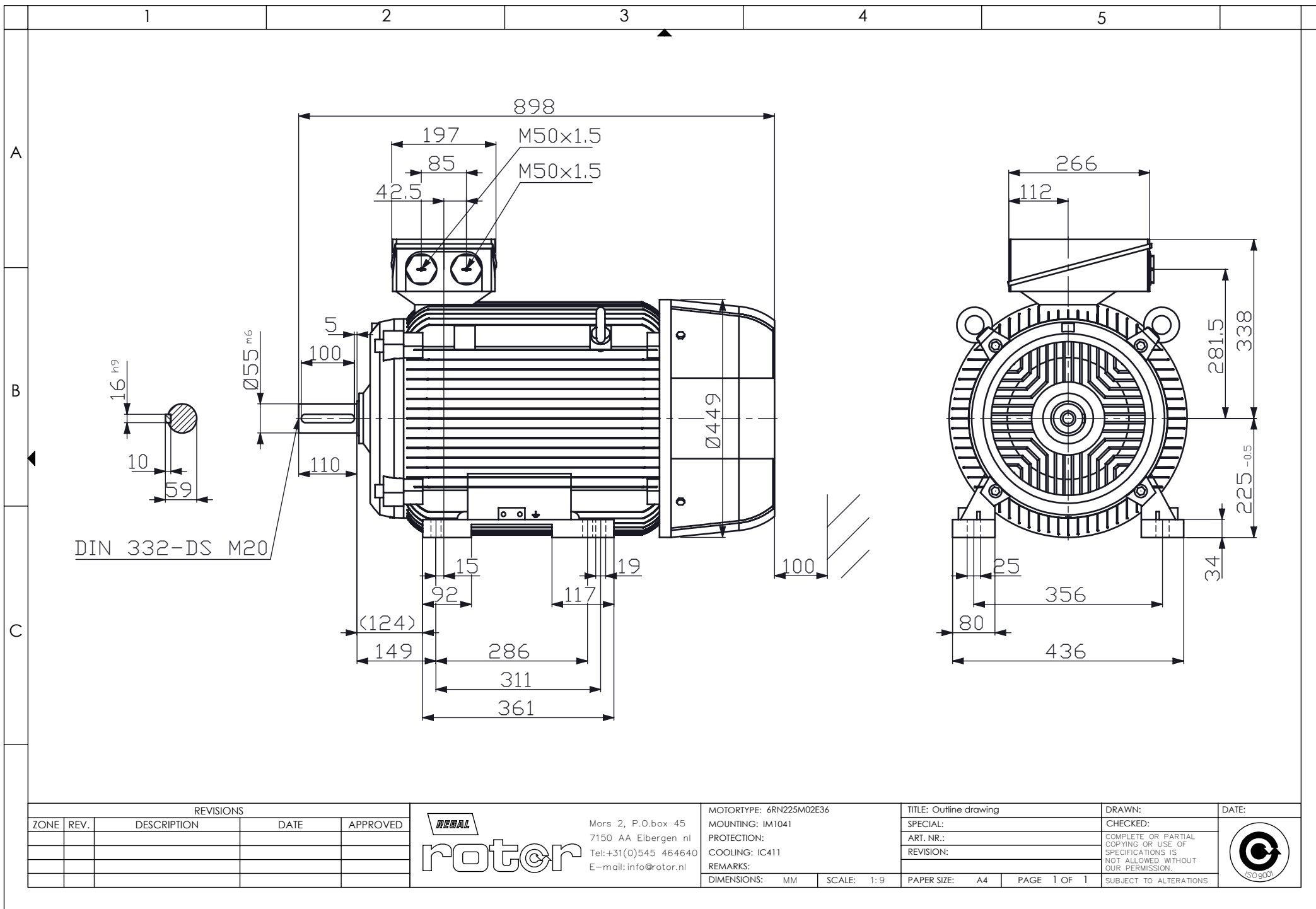
## Nameplate Specifications

|                        |               |                            |                             |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP              | 75 Hp         | Output KW                  | 55.0 kW                     |
| Frequency              | 50 Hz         | Voltage                    | D400/Y690 V                 |
| Current                | 94.00 A       | Speed                      | 2965 rpm                    |
| Service Factor         | 1             | Phase                      | 3                           |
| Efficiency             | 94.3 %        | Power Factor               | 0.90                        |
| Duty                   | S1            | Insulation Class           | F                           |
| Frame                  | 225M          | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6313/C3       | Opp Drive End Bearing Size | 6313/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               |
| Outline Drawing | 6RN225M02E36U461041 |                   |                     |

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## Datasheet

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Model No. 2-Pole cage motor 6RN 225M 55kW 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        | 55        | 75        | 94       | 2965       | 177       | IE3         | 94,3                               | 0,90                           | 8,20                                   | 3,10                                   | 3,70                                   |
| 690      | Y             |           |           |           | 55       |            |           |             |                                    |                                |                                        |                                        |                                        |
| 460      | D             | 60        | 62        | 83,11     | 92       | 3565       | 166       | IE3         | 93,6                               | 0,90                           | 8,60                                   | 3,10                                   | 3,70                                   |

|                |                              |
|----------------|------------------------------|
| Motor type     | 6RN225M02E36                 |
| Enclosure      | Totally Enclosed Fan Cooling |
| Frame Material | Cast iron                    |
| Frame size     | 225M                         |
| Duty           | S1                           |
| Voltage        | 400 V                        |
| Frequency      | 50 Hz                        |
| Power output   | 55 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       | 6313/C3      |
| Lubrication method | 22gr/4000hrs |
| Type of grease     | Unirex N3    |

|                   |    |
|-------------------|----|
| 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 [A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|------------------------|
| @ D 400V 50Hz | 310%                              | 819%                           |                              | 370%                           |                        |
| @ D 460V 60Hz | 310%                              | 859%                           |                              | 370%                           |                        |

## 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.

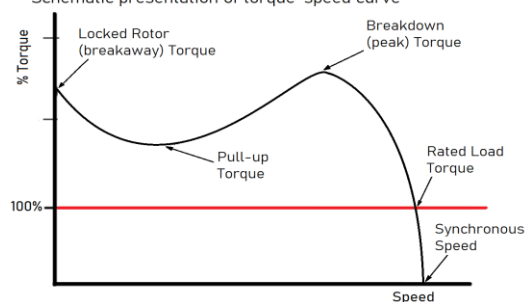
|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

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|                        |                         |
|------------------------|-------------------------|
| Degree of protection   | IP55                    |
| Mounting type          | IM1041                  |
| Cooling method         | IC411                   |
| Motor weight - approx. | 370 kg                  |
| Gross weight - approx. | 380 kg                  |
| Motor inertia          | 0,3100 kgm <sup>2</sup> |
| Vibration level        | according IEC60034-14   |

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

Schematic presentation of torque-speed curve



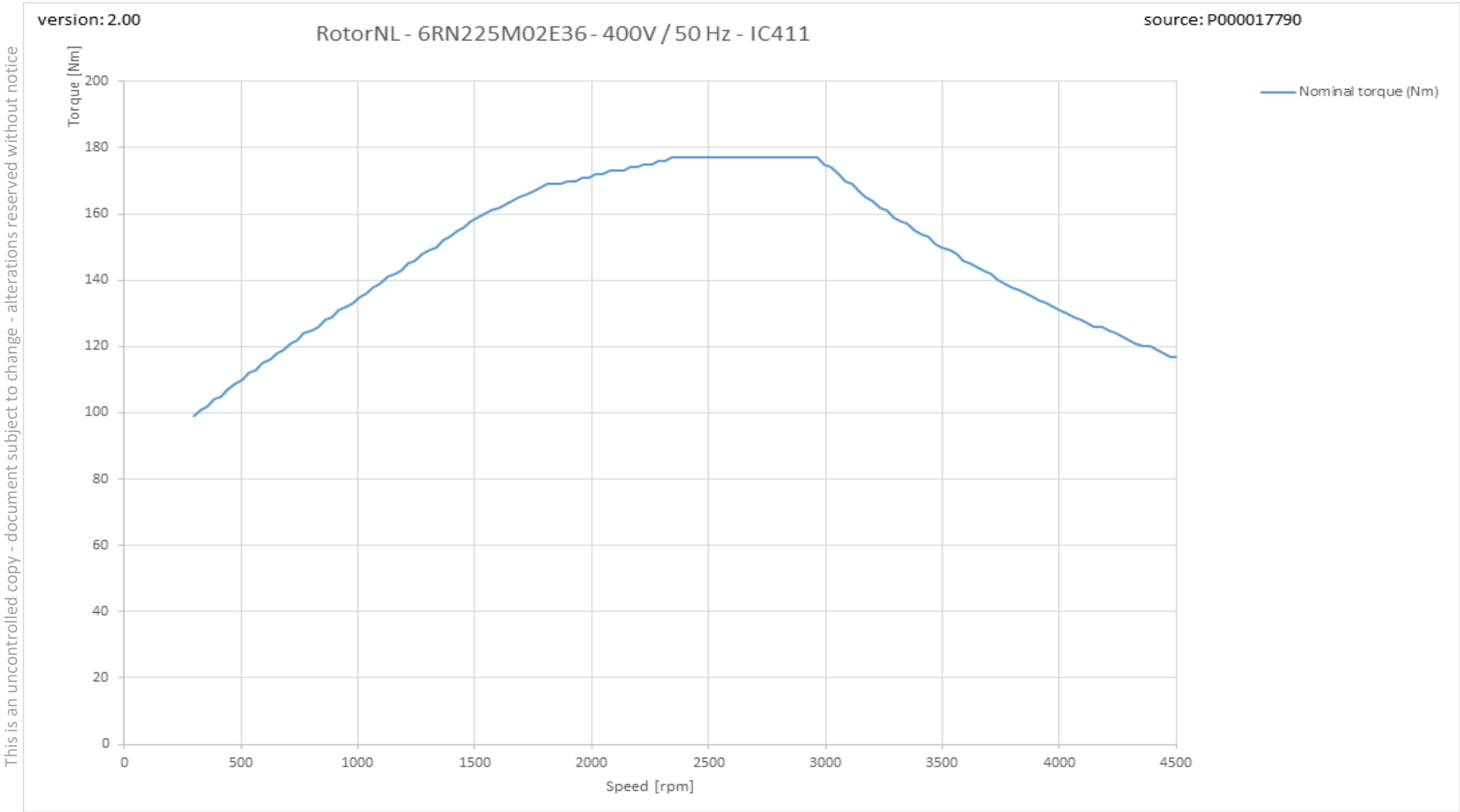
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6RN225M02E36 2-pole 55,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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