

PRODUCT INFORMATION PACKET



Model No: 6RN250M06E36U463021

Catalog No: 6RN250M06E36U46@3021

45.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
250M Frame B5, IC411



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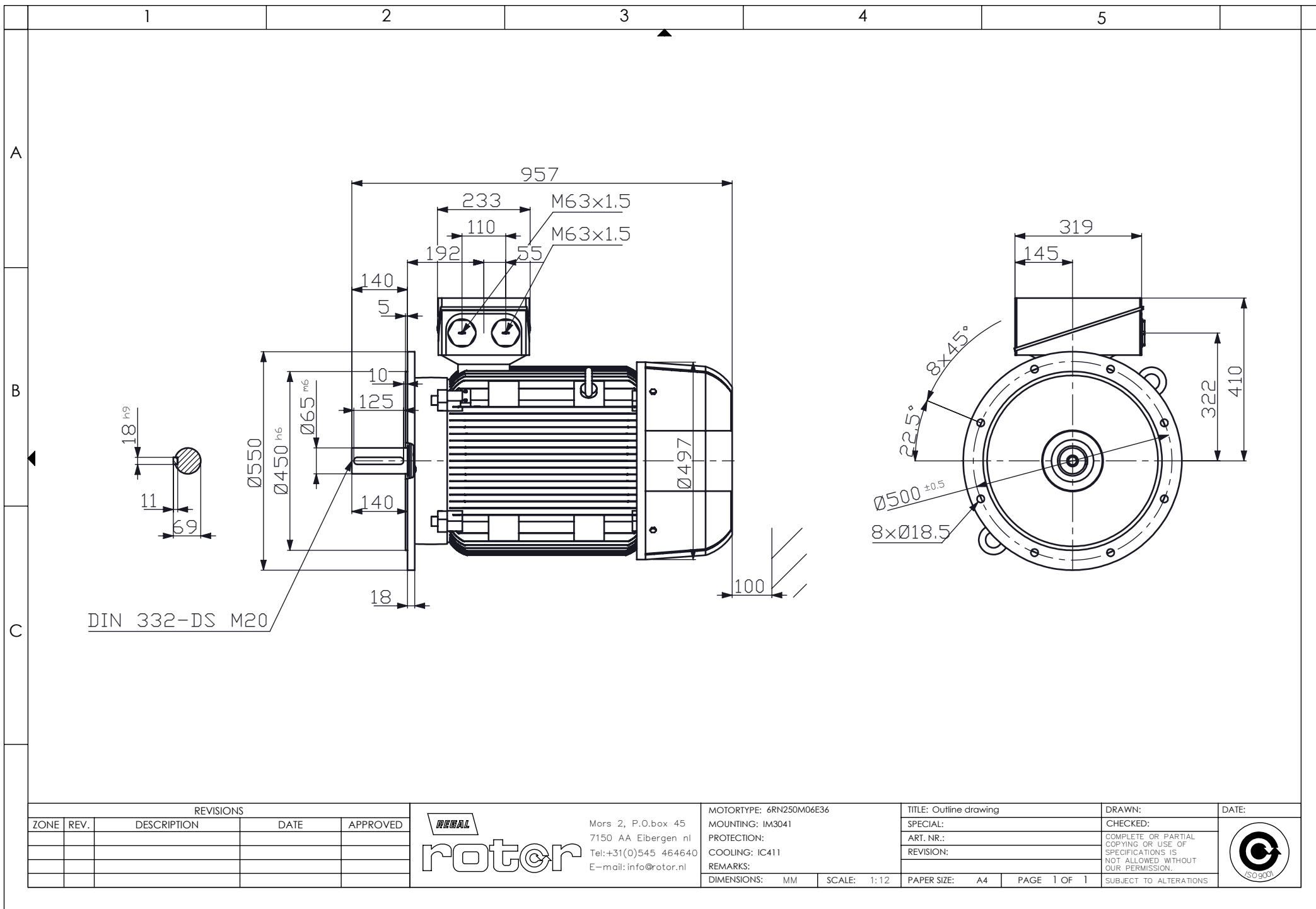
Nameplate Specifications

Output HP	60 Hp	Output KW	45.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	83.00 A	Speed	986 rpm
Service Factor	1	Phase	3
Efficiency	93.7 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6315/C3	Opp Drive End Bearing Size	6315/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	6	Rotation	Clockwise Shaft End
Mounting	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN250M06E36U463021		

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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



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MOTORTYPE: 6RN250M06E36
MOUNTING: IM3041
PROTECTION:
COOLING: IC411
REMARKS:

DIMENSIONS: MM

SCALE: 1:12

TITLE: Outline drawing

SPECIAL:

ART. NR.:

REVISION:

PAPER SIZE: A4

PAGE 1 OF 1

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Datasheet

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Model No. 6-Pole cage motor 6RN 250M 45kW D400V 50Hz IM3021-FF500

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]
400	D	50	45	60,32	83	986	436	IE3	93,7	0,84	7,00	2,80	2,90
690	Y				48								
460	D	60	54	72,39	86	1182	436	IE2	93,6	0,84	6,70	2,40	2,70

Motor type	6RN250M06E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	250M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	45 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	6315/C3
Lubrication method	25gr/8000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,1251 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 400V 50Hz	280%	700%		290%	
@ D 460V 60Hz	240%	669%		270%	

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.

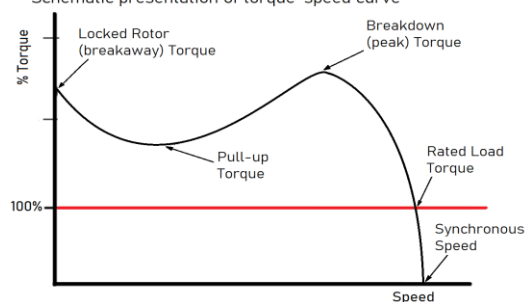
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

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Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	kg
Gross weight - approx.	kg
Motor inertia	1,3000 kgm ²
Vibration level	according IEC60034-14

Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



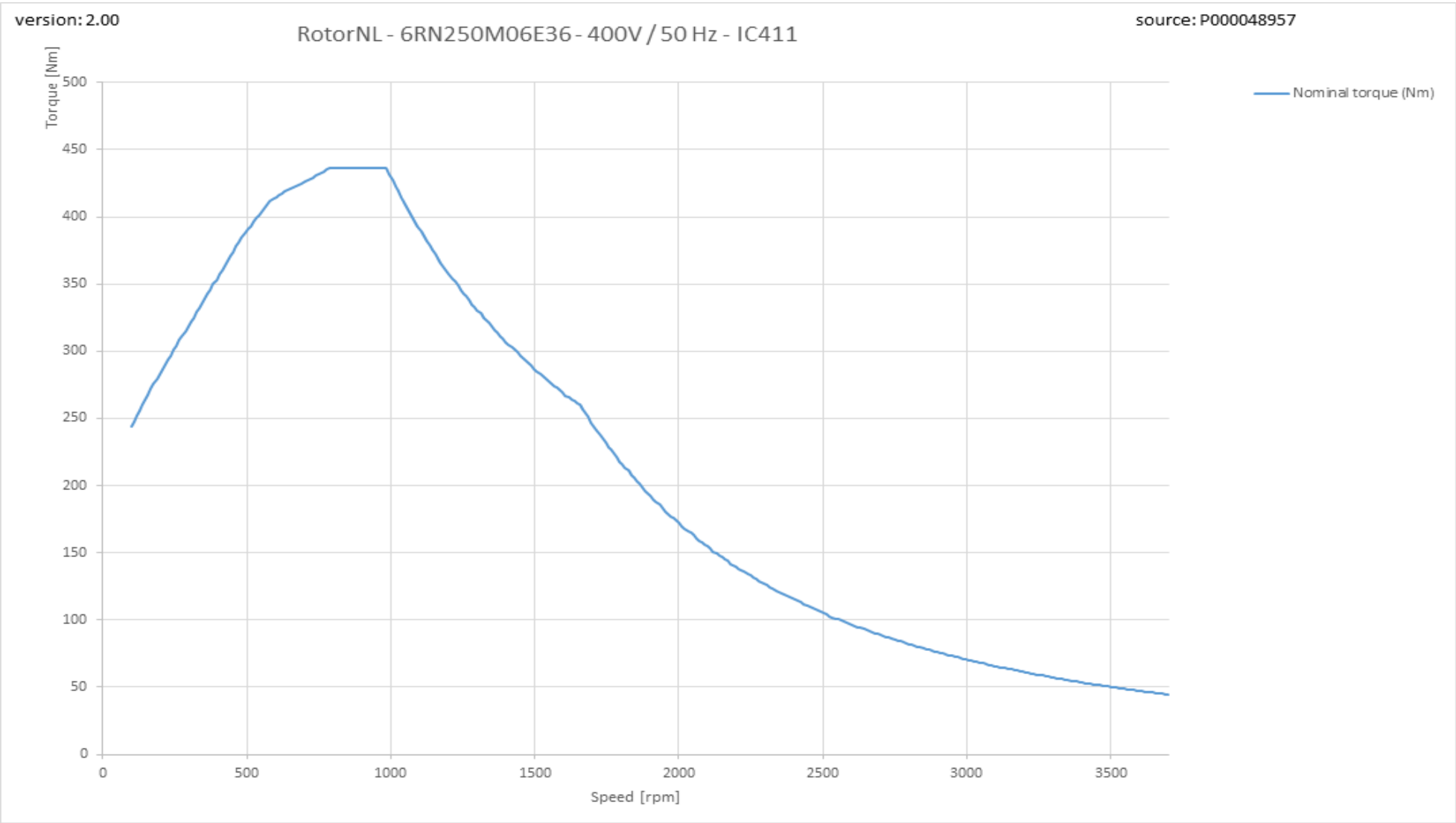
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6RN250M06E36 6-pole 45,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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