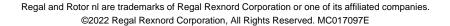
PRODUCT INFORMATION PACKET



Model No: 6RN112M06E36U46B2181-A
Catalog No: 6RN112M06E36U46B@2181-A
3.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
112M Frame B34, IC411











Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	6.80 A	Speed	965 rpm
Service Factor	1	Phase	3
Efficiency	85.6 %	Power Factor	0.74
Duty	S 1	Insulation Class	F
Frame	112M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6306-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6306-2Z/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	6	Rotation	Clockwise Shaft End
Mounting	B34	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN112M06E36U46B2181-A		

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Datasheet





Mors 1-5, 7151 MX Eibergen NL www.rotor.nl tel.: +31 545 464640 sales@rotor.nl tel.: +31 545 464646

Model No.

6-Pole cage motor 6RN 112M 3kW D400V 50Hz IM1081

U	Δ/Υ	f	Р	Р	I	n	Т	IE	% EFF at load	PF atload	I _A /I _N	T _A /T _N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL 3/4FL 1/2FL	FL 3/4FL 1/2FL	[pu]	[pu]	[pu]
400	D	50	3	4	6,8	965	29,7	IE3	85,6	0,74	5,50	2,00	2,70
690	Υ				3,93								
460	D	60	3,45	4,625	6,2	1175	28,2	IE2	87,5	0,72	8,19	2,82	3,40

Motor type	6RN112M06E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	3 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	56 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	46 kg
Gross weight - approx.	47 kg
Motor inertia	0,0146 kgm²
Vibration level	according IEC60034-14

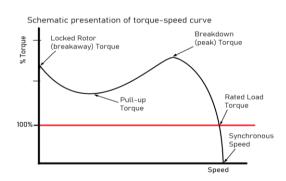
	30 K		
		Direction of rotation	cw /ccw
	1000 mtr		
n	Safe area		

Rotor type	Cage motor
Bearing type	6306-2Z/C3WT - 6306-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	4,7800 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	200%	550%		270%	4,18 A
@ D 460V 60Hz	282%	819%		340%	3,81 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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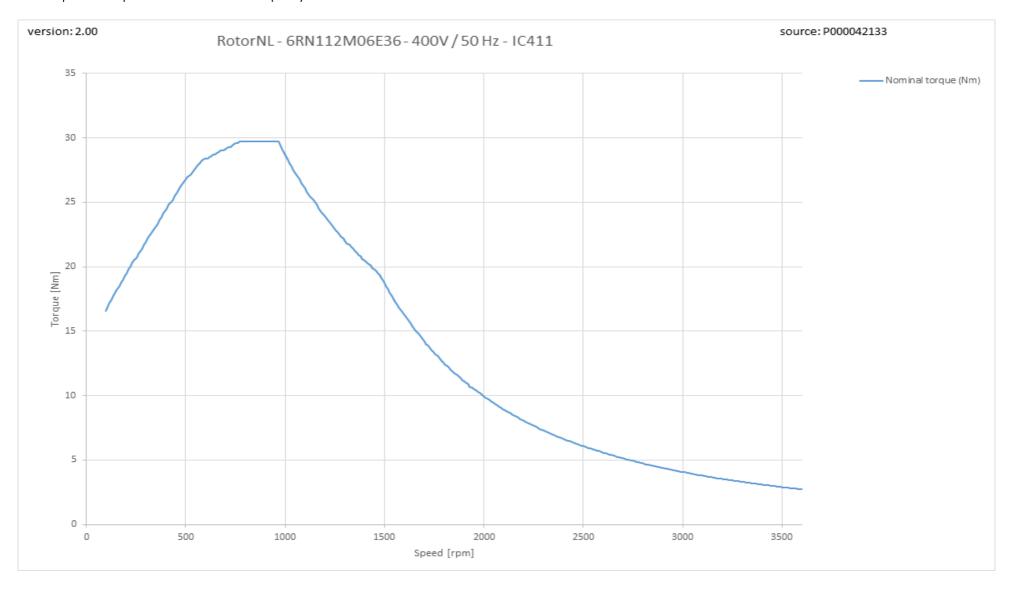


BvD





Torque versus Speed curve with variable frequency drive



Therm_VSD graph

