

Model No. 4-Pole cage motor 6RN 112M 5,5kW D400V 50Hz IM2181-FT165

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	5,5	7 1/3	11,1	1460	36,0	IE3	89,6 90,5 89,9	0,80 0,71 0,59	8,45	2,84	3,85
690	Y				6,4								
460	D	60	6,3	8,445	10,8	1760	34,2	IE2	91,0	0,80	8,50	2,82	3,85

Motor type	6RN112M04E36V
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	5,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B
Temperature rise winding	49 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area
	0

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

Type of grease	Unirex N3
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Phase resistance at 20°C	1,8810 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	284%	845%	275%	385%	6 A
@ D 460V 60Hz	282%	870%	273%	385%	5,37 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

This is an uncontrolled copy, data can be changed anytime.

Degree of protection	IP55
Mounting type	IM2181-FT165
Cooling method	IC411
Motor weight - approx.	58 kg
Gross weight - approx.	60 kg
Motor inertia	0,0186 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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Driving efficiency and sustainability

