

Model No. 4-Pole cage motor 6RN 80M 0,55kW D400V 50Hz IM2081-FF165

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __ load			I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	0,55	0,737	1,25	1440	3,6	IE3	81,5	81,8	79,9	0,77	0,69	0,56	3,45	2,13	3,10
690	Y				0,72												
460	D	60	0,63	0,845	1,23	1740	3,5	IE3	83,3	83,5	81,5	0,77	0,69	0,57	6,39	2,40	3,30
	Y																

Motor type	6RN80M04E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Aluminum
Frame size	80M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	0,55 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B
Temperature rise winding	23 K
Temperature rise surface	17 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area
Te time	0 sec

Degree of protection	IP55
Mounting type	IM2081-FF165
Cooling method	IC411
Motor weight - approx.	13 kg
Gross weight - approx.	13 kg
Motor inertia	0,0021 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	50,3 dB(A)

Rotor type	Cage motor
Bearing type	6004-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	40,2000 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	213%	344%	210%	310%	0,76 A
@ D 460V 60Hz	240%	634%	204%	330%	0,71 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.

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

