

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 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	0,55	0,737	1,44	1385	3,8	IE1	70,8 71,4 67,7	0,79 0,69 0,54	3,76	2,05	2,21
690	Y				0,83								
460	D	60	0,63	0,845	1,37	1685	3,6	IE1	73,9 74,0 70,4	0,78 0,69 0,55	4,36	2,22	2,45

Motor type	6RN80M04E12
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	65 K
Temperature rise surface	37 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.	10 kg
Gross weight - approx.	10 kg
Motor inertia	0,0014 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	56 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	50,7080 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	205%	368%		221%	1,02 A
@ D 460V 60Hz	222%	437%		245%	0,94 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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