

Model No. 2-Pole cage motor TCA 280M 90kW D400V 50Hz IM3001-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	90	120	152	2981	288,3	IE3	95,7	0,89	8,15	1,80	3,03
690	Y				88,4								
460	D	60	101	135,4	147	3581	269,4	IE3	95,0 95,0 93,9	0,91	7,29	1,72	2,96
					85,1								

Motor type	TCA280MA2E3
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	90 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	-
Temperature rise winding	60 K
Temperature rise surface	36 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6314/C3
Lubrication method	23gr/4300hrs
Type of grease	Chevron SRI-2

Country of origin	CN
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	180%	815%		303%	44,3 A
@ D 460V 60Hz	172%	727%		296%	

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	IM3001-FF500
Cooling method	IC411
Motor weight - approx.	650 kg
Gross weight - approx.	670 kg
Motor inertia	1,1700 kgm²
Vibration level	according IEC60034-14

Direction of rotation	cw /ccw
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PTC 150°C

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

