

Model No. 4-Pole cage motor TCA 90S 1,1kW D230V 50Hz IM3001-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]
230	D	50	1,1	1 1/2	4,22	1450	7,2	IE3	84,5	0,78	7,30	2,85	3,30
400	Y				2,43								
265	D	60	1,3	1,743	4,25	1742	7,1	IE3	83,5 84,0 82,1	0,80	7,70	2,83	3,40
460	Y				2,45								

Motor type	TCA90S4E3
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	90S
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,1 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	-
Temperature rise winding	41 K
Temperature rise surface	-
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6205-2Z/C3WT

Type of grease	Chevron SRI-2
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Phase resistance at 20°C	5,0500 Ohm
Country of origin	CN

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 230V 50Hz	285%	729%		330%	
@ D 265V 60Hz	283%	769%		340%	

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-FF165
Cooling method	IC411
Motor weight - approx.	24 kg
Gross weight - approx.	25 kg
Motor inertia	0,0045 kgm²
Vibration level	according IEC60034-14
Direction of rotation	cw /ccw
	PTC 150°C

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

