

Model No. 4-Pole cage motor TCA 225M 45kW D400V 50Hz IM1001

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	45	60,32	80,1	1484	289,6	IE3	94,3	0,86	7,47	2,30	2,90
690	Y				46,6								
460	D	60	52	69,71	80	1783	278,5	IE2	94,1 94,1 94,1	0,87	7,47	2,30	2,90

Motor type	TCA225MA4E3
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	225M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	45 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	-
Temperature rise winding	69 K
Temperature rise surface	32 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6213/C3
Lubrication method	22gr/10200hrs
Type of grease	Chevron SRI-2

Phase resistance at 20°C	0,1481 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 400V 50Hz	230%	746%		290%	29 A
@ D 460V 60Hz	230%	747%		290%	

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	IM1001
Cooling method	IC411
Motor weight - approx.	390 kg
Gross weight - approx.	400 kg
Motor inertia	0,7100 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

