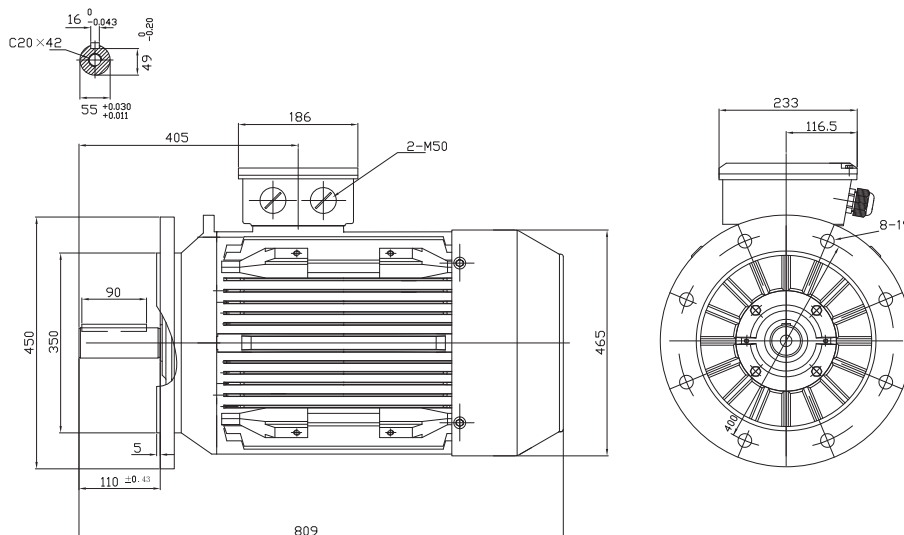


Type T3C 225M-2

Cod. R2250245,0B5B5G0000T

Mounting position

IM	B5
IM	3001



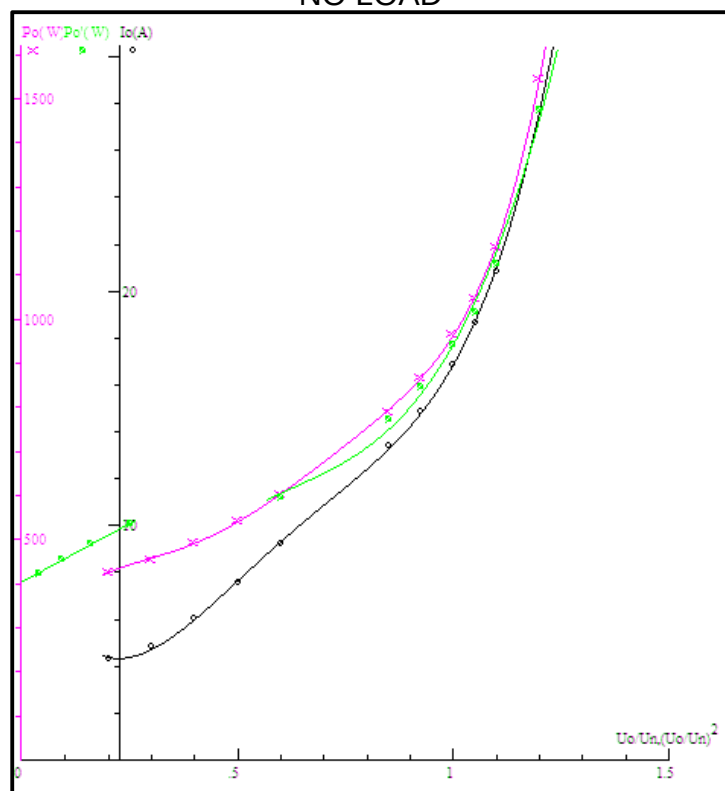
Electrical data			
Rated motor power	45		Kw
Rated motor speed	2930		min ⁻¹ 50Hz
	3520		min ⁻¹ 60Hz
Rated motor frequency	50		Hz
Rated motor voltage(+/-10%)	400		VΔ/50Hz
	690		VY/50Hz
	480		VΔ/60Hz
	830		VY/60Hz
Rated motor torque	146.66		Nm (Mn)
Rated motor current	78.52	VΔ/50Hz	A (In)
	45.39	VY/50Hz	A (In)
Starting motor current	6.9		xIn
Starting motor torque	2.3		xMn
Breakdown motor torque	2.8		xMn
Starting			D.O.L.
Efficiency class	IE3		
Efficiency	50Hz	60Hz	
	94	93.7	100% load
	94.6	94.4	75% load
	94.1	93	50% load
Power factor cosφ	0.88	0.88	100% load

General data			
Frame size	225		
Mounting	B5		
Weight	369.6	Kg	
Casing material	Cast iron		
Protection	IP	55	
Insulation class/Temperature rise	F	/	B
Tropicalization	Yes		
Vibration class	N		
Duty	S1		
Direction of rotation	Bidirectional		
Method of cooling	IC	411	
Cable entry	2-M50x1,5+1M16x1,5		
Standards	IEC/DIN/ISO/VDE/EN		
Execute at Standard	IEC 60034-1		
Feet removable	Yes		
Paintwork	RAL	7024	dark grey
Thermal protections	PTC 150°C		Standard
Site conditions			
Ambient temperature	from -20°C to +40°C		
Altitude above sea level	1000 m		

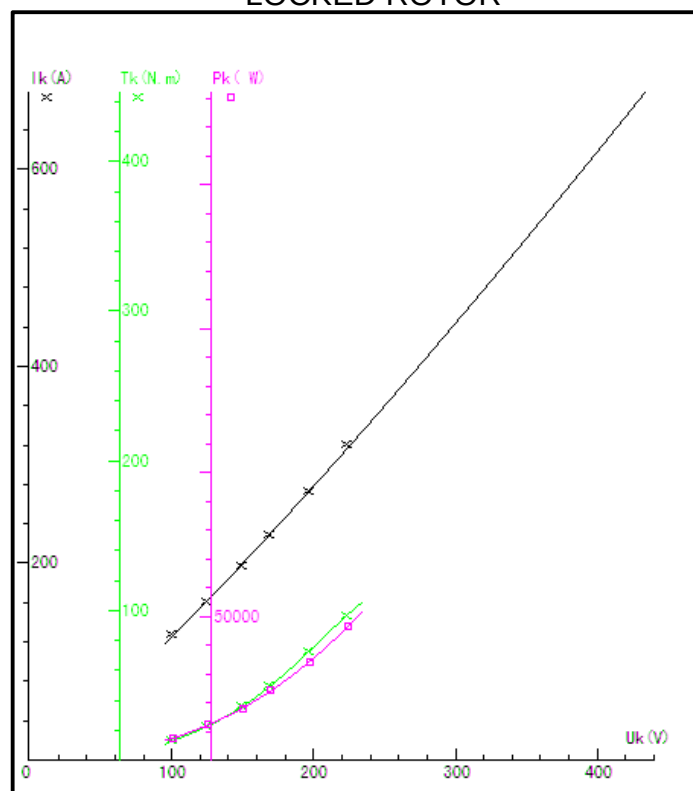
Mechanical data							
Noise level	LpA	75	dB(A)	Bearing DE side	6313-C3		
	LwA	85	dB(A)	Bearing NDE side	6313-C3		
Moment of inertia	0.24903		Kgm ²	Average bearing lifetime	40000		h
Bearings type			NSK	Relubrication interval L1 DE bearing	6500		h
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	6500		h
				Compensation ring	NDE SIDE		standard

Type T3C 225M-2			Output 45 kW		Voltage 400/690 V		Current A		Frequency 50 Hz		Kind of test	
Duty S1			Connection method Δ/Y		Poles 2 P		Speed r/min		Basic temp. 95 ℃			
Insulation resistance	(MΩ)		Phase vs.Phase	Phase vs.Ground	DC Resistance determination(Ω)		over loading test		160% of Rated torque.for 15S Pass			
	Cold state				Line R	Value			150% of Rated current.for 120S Pass			
	Hot state		300			R _{UW}	0,05755	Inter-turns insulation test				
High-voltage	1760 V for 60 S				R _{UV}	0,05742	Over speed test		130% of Rated voltage.for 180 Pass			
	Phase vs.Phase			Pass	R _{VW}	0,05739						
	Phase vs.Ground			Pass	Ambient. 19,2 ℃				120% of Rated max.frequency.for 120S Pass			
Item			Result	Standard value	Tolerance (%)	Reference temp R (Ω)		0,11188		Hot state temp. (℃)		19,2
Efficiency	100%Pn (%)		94,93			Three-phase R deviation (%)		0,17		Middle part of enclosure temp.(℃)		76,2
	75%Pn (%)		95,057			No-load current (A)		16,84		Temp. of frame (℃)		39
	50%Pn (%)		94,486			No-load current deviation (%)		6,12		Temp. of Airin-N (℃)		80,1
Power factor			0,92			No-load input power (W)		961,77		Temp. of Airout-D (℃)		19,2
Temperature rise of stator winding	0 S (K)		59,5			Full-load input current (A)		74,37		Environment humidity (%)		
	30/90 S (K)		59,5			Full-load input power (W)		47401		Degree of protection (IP)		IP55
Slip (%)			1,054			Core loss (W)		531,21		Insulation class		F
Locked current (A)			617,8			Friction and wind age loss(W)		404,26				
Locked rotor current /Rated current			8,31			StatorI2Rloss (W)		595,88		Cold checking test		
Locked torque (Nm)			369,5			RotorI2Rloss (W)		487,73		50 Hz 400/690 V No-load test data		
Locked rotor torque/Rated torque			2,55			Stary-load loss (W)		382,02		No-load current (A)		
Maximum torque (Nm)			433,4			wastage summation (W)		2401,1		No-load power (W)		961,77
Breakdown torque/Rated torque			2,99			Output (W)		45000		50 Hz V Locked test data		
Pull-up torque (Nm)			197,9			Rated torque (N.m)		144,94		Locked current (A)		
Pull-up torque/Rated torque			1,37			Full-load speed (r/min)		2968,4		Locked power: (W)		
Noise Lp (A) dB												
Vibrancy (mm)												
Bearing temperature rise (K)			50									
Vibration Test												
Displacement (μm)												
velocity (mm/s)												
Acceleration (m/s ²)						Mechanical check		Complete assembly, Flexible rotating, Correct Direction.				

NO LOAD



LOCKED ROTOR



LOAD

