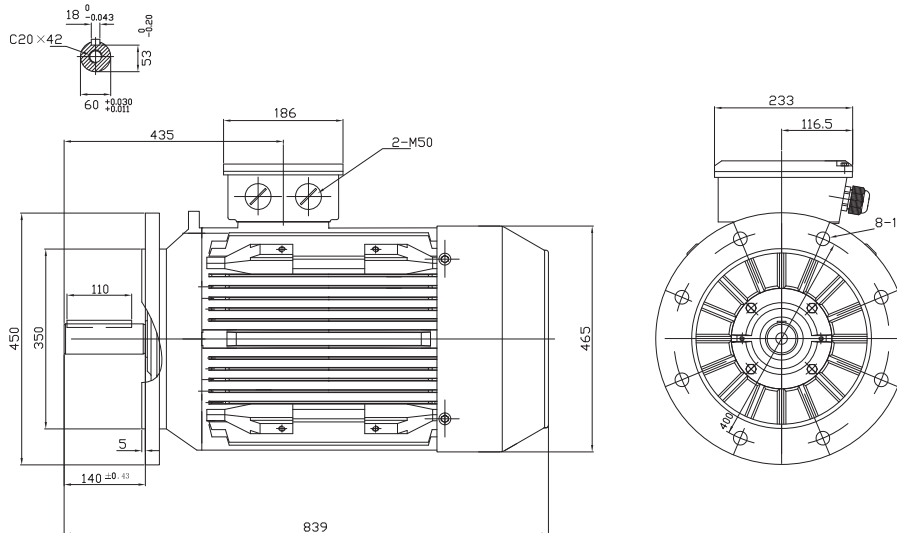


Type T3C 225M-4

Cod. R2250445,0B5B5G0000T

Mounting position

IM	B5
IM	3001

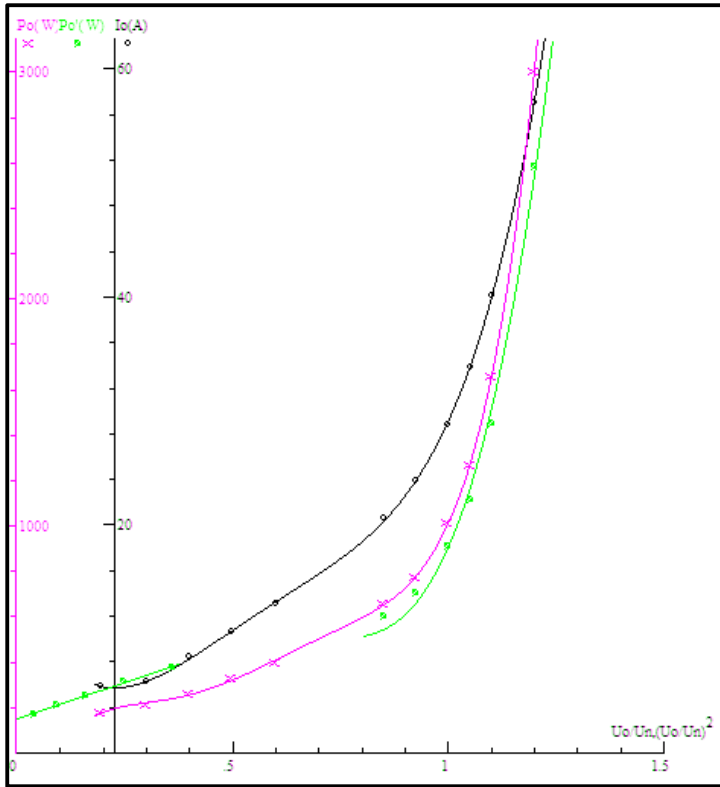


Electrical data				General data			
Rated motor power	45		Kw	Frame size	225		
Rated motor speed	1480		min ⁻¹ 50Hz	Mounting	B5		
	1780		min ⁻¹ 60Hz	Weight	411.04		Kg
Rated motor frequency	50		Hz	Casing material	Cast iron		
Rated motor voltage(+/-10%)	400		VΔ/50Hz	Protection	IP	55	
	690		VY/50Hz	Insulation class/Temperature rise	F	/	B
	480		VΔ/60Hz	Tropicalization	Yes		
	830		VY/60Hz	Vibration class	N		
Rated motor torque	290.35		Nm (Mn)	Duty	S1		
Rated motor current	86.19	VΔ/50Hz	A (In)	Direction of rotation	Bidirectional		
	49.82	VY/50Hz	A (In)	Method of cooling	IC	411	
Starting motor current	7		xIn	Cable entry	2-M50x1,5+1M16x1,5		
Starting motor torque	2.3		xMn	Standards	IEC/DIN/ISO/VDE/EN		
Breakdown motor torque	2.8		xMn	Execute at Standard	IEC 60034-1		
Starting			D.O.L.	Feet removable	Yes		
Efficiency class	IE3			Paintwork	RAL	7024	dark grey
Efficiency	50Hz	60Hz		Thermal protections	PTC 150°C		Standard
	94.2	95	100% load				
	95.2	95.7	75% load				
	94.5	94.2	50% load				
Power factor cosφ	0.8	0.8	100% load				

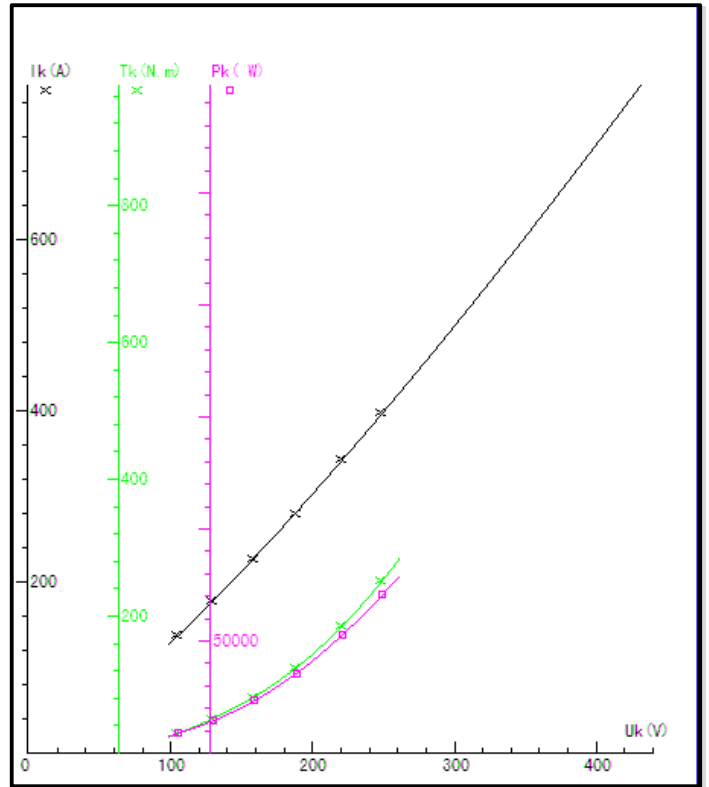
Mechanical data				Site conditions			
Noise level	LpA	70	dB(A)	Bearing DE side	6313-C3		
	LwA	80	dB(A)	Bearing NDE side	6313-C3		
Moment of inertia	0.65306		Kgm ²	Average bearing lifetime	40000		h
Bearings type			NSK	Relubrication interval L1 DE bearing	16500		h
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	16500		h
				Compensation ring	NDE SIDE		standard

Type	T3C 225M-4			Output	45 kW	Voltage	400/690 V	Current	A	Frequency	50 Hz	Kind of test	
Duty	S1			Connection method	Δ / Y	Poles	4 P	Speed	r/min	Basic temp.	95 °C		
Insulation resistance	(M Ω)	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 _{UV}	0,07194	Inter-turns insulation test							
High-voltage	1760 V for		60 S	R _{UV}	0,07192	130% of Rated voltage.for 180		Pass					
	Phase vs.Phase		Pass	R _{VW}	0,07196	Over speed test							
	Phase vs.Ground		Pass	Ambient.	26 °C	120% of Rated max.frequency.for 120S		Pass					
Item		Result	Standard value	Tolerance (%)	Reference temp R (Ω)	0,13644	Hot state temp. (°C)	22,7					
Efficiency	100% P _n	(%)	94,78		Three-phase R deviation (%)	0,03	Middle part of enclosure temp.(°C)	87,5					
	75% P _n	(%)	94,889		No-load current (A)	29,07	Temp. of frame (°C)	53					
	50% P _n	(%)	94,276		No-load current deviation (%)	4,64	Temp. of Airin-N (°C)	89,7					
Power factor		0,867			No-load input power (W)	1010,5	Temp. of Airout-D (°C)	22,7					
Temperature rise of stator winding	0 S	(K)	68,7		Full-load input current (A)	79,08	Environment humidity (%)						
	30/90 S	(K)	68,7		Full-load input power (W)	47478	Degree of protection (IP)	IP55					
Slip (%)		1,2089			Core loss (W)	750,75	Insulation class	F					
Locked current (A)		710			Friction and wind age loss(W)	150,81							
Locked rotor current /Rated current		8,98			StatorI2Rloss (W)	843,9	Cold checking test						
Locked torque (Nm)		808			RotorI2Rloss (W)	554,68	50 Hz 400/690 V No-load test data						
Locked rotor torque/Rated torque		2,75			Stary-load loss (W)	177,8	No-load current (A)						
Maximum torque (Nm)		856,3			wastage summation (W)	2477,9	No-load power (W) 1010,5						
Breakdown torque/Rated torque		2,91			Output (W)	45000	50 Hz V Locked test data						
Pull-up torque (Nm)		498,4			Rated torque (N.m)	293,79	Locked current (A)						
Pull-up torque/Rated torque		1,7			Full-load speed (r/min)	1481,9	Locked power: (W)						
Noise Lp (A) dB													
Vibrancy (mm)													
Bearing temperature rise (K)		65											
Vibration Test													
Displacement (μ m)													
velocity (mm/s)													
Acceleration (m/s ²)					Mechanical check		Complete assembly, Flexible rotating, Correct Direction.						

NO LOAD



LOCKED ROTOR



LOAD

