

Type T2A 112M2-4

Cod. I112M405,5BB5A00000T

Mounting position

IM	B34
IM	2101

Drawings available upon request

Electrical data				General data			
Rated motor power	5.5		Kw	Frame size	112		
Rated motor speed	1440		min ⁻¹ 50Hz	Mounting	B34		
	1730		min ⁻¹ 60Hz	Weight	-	Kg	
Rated motor frequency	50		Hz	Casing material	Aluminum		
Rated motor voltage(+/-10%)	400		VΔ/50Hz	Protection	IP	55	
	690		VY/50Hz	Insulation class	H		
	480		VΔ/60Hz	Tropicalization	Yes		
	830		VY/60Hz	Vibration class	A		
Rated motor torque	36.49		Nm (Mn)	Duty	S1		
Rated motor current	11.3	VΔ/50Hz	A (In)	Direction of rotation	Bidirectional		
	6.53	VY/50Hz	A (In)	Method of cooling	IC	411	
Starting motor current	8.3		xIn	Cable entry	2-M25x1,5		
Starting motor torque	3.7		xMn	Standards	IEC/DIN/ISO/VDE/EN		
Breakdown motor torque	3.6		xMn	Execute at Standard	IEC 60034-1		
Starting			D.O.L.	Feet removable	Yes		
Efficiency class	IE2			Paintwork	7024	C2 standard	
Efficiency	50Hz	60Hz		Thermal protections	n/a		
	87.7	-	100% load				
	88.6	-	75% load				
	88.1	-	50% load				
Power factor cosφ	0.8	-	100% load				

Site conditions	
Ambient temperature	from -20°C to +40°C
Altitude above sea level	1000 m

Mechanical data			
Noise level	LpA	73	dB(A)
	LwA	83	dB(A)
Moment of inertia	0.01736		Kgm ²
Bearings type			NSK
Lubricants for bearings	See installation and maintenance manual		
			Bearing DE side
			Bearing NDE side
		Average bearing lifetime	40000 h
		Relubrication interval L1 DE bearing	- h
		Relubrication interval L1 NDE bearing	- h
		Compensation ring	NDE SIDE standard

There may be differences between rating plate and calculated values.

Type Test Report

Type: T2A112M2-4

Voltage: 400/690 V

Output: 5.5 kW

Connection: Δ /Y

Frequency: 50 Hz

Duty: S1

Test Item		Result			
1.	Efficiency %	87.9			
2.	Power Factor	0.803			
3.	Tem. Rise of Stator Winding K	66			
4.	Vibration mm/s				
5.	Noise Lp dB (A) (Lw)				
6.	Breakdown Torque/Rated Torque	3.59			
7.	Pullup Torque/Rated Torque	3.19			
8.	Locked Rotor Tor./Rated Tor.	3.78			
9.	Locked Rotor Cur./Rated Cur.	8.29			
10.	High Voltage Test V	1800			
11.	Hot Insulation Res. of Stator Winding M Ω	300.			
12.	Temperature of Bearing $^{\circ}$ C	73			
13.	Unbalance of Current %	2.32			
14.	Full Load line Current A	11.25			
15.	Full Load input W	6258			
16.	Full Load torque Nm	36.61			
17.	Max.temp.of enclosure surface $^{\circ}$ C	70.6			
18.	No Load Current A	6.370			
19.	Slip %	4.218			
20.	Stator Winding phase resistance Ω (95 $^{\circ}$ C)	2.5156			
21.	Stray Load Loss W	45.08			
22.	No Load Stator Power W	247.3			
23.	Core Loss W	130.8			
24.	Friction & Windage Loss W	22.97			
25.	Locked Rotor Power W	42977			
26.	Stator I ii R Loss W	314.4			
27.	Rotor I ii R Loss W	245.2			
28.	Locked Rotor Voltage 100.0V	Current A	15.84	Power W	1405
Remark:					
75%eff: 88.83 50%eff: 88.33					

Check:

Operator:

Torque - Speed Curve

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