

Type T2A 803-2

Cod. I080Y201,5BA5A00000T

Mounting position

IM	B34
IM	2101

Drawings available upon request

Electrical data				General data			
Rated motor power	1.5		Kw	Frame size	80		
Rated motor speed	2880		min ⁻¹ 50Hz	Mounting	B34		
	3460		min ⁻¹ 60Hz	Weight	-	Kg	
Rated motor frequency	50		Hz	Casing material	Aluminum		
Rated motor voltage(+/-10%)	230		VΔ/50Hz	Protection	IP	55	
	400		VY/50Hz	Insulation class	H		
	280		VΔ/60Hz	Tropicalization	Yes		
	480		VY/60Hz	Vibration class	A		
Rated motor torque	4.98		Nm (Mn)	Duty	S1		
Rated motor current	5.52	VΔ/50Hz	A (In)	Direction of rotation	Bidirectional		
	3.19	VY/50Hz	A (In)	Method of cooling	IC	411	
Starting motor current	7.4		xIn	Cable entry	1-M20x1,5		
Starting motor torque	2.9		xMn	Standards	IEC/DIN/ISO/VDE/EN		
Breakdown motor torque	3.1		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		
	81.3	-	100% load	Site conditions			
	82	-	75% load	Ambient temperature	from -20°C to +40°C		
	80.4	-	50% load	Altitude above sea level	1000 m		
Power factor cosφ	0.84	-	100% load				

Mechanical data						
Noise level	LpA	75	dB(A)	Bearing DE side	6204-2RS-C3	
	LwA	84	dB(A)	Bearing NDE side	6204-2RS-C3	
Moment of inertia	0.00143		Kgm ²	Average bearing lifetime	40000	h
Bearings type			NSK	Relubrication interval L1 DE bearing	-	h
Lubricants for bearings	See installation and maintenance manual			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: T2A803-2 Voltage: 400/230 V
 Output: 1.5 kW Connection: Y/Δ
 Frequency: 50 Hz Duty: S1

Test Item		Result			
1.	Efficiency %	82.8			
2.	Power Factor	0.838			
3.	Tem. Rise of Stator Winding K	72			
4.	Vibration mm/s				
5.	Noise Lp dB (A) (Lw)				
6.	Breakdown Torque/Rated Torque	3.20			
7.	Pullup Torque/Rated Torque	2.05			
8.	Locked Rotor Tor./Rated Tor.	2.98			
9.	Locked Rotor Cur./Rated Cur.	7.37			
10.	High Voltage Test V	1800			
11.	Hot Insulation Res. of Stator Winding MΩ	300.			
12.	Temperature of Bearing °C	62			
13.	Unbalance of Current %	1.70			
14.	Full Load line Current A	3.122			
15.	Full Load input W	1813			
16.	Full Load torque Nm	4.966			
17.	Max.temp.of enclosure surface °C	59.1			
18.	No Load Current A	1.929			
19.	Slip %	4.029			
20.	Stator Winding phase resistance Ω (95°C)	5.1689			
21.	Stray Load Loss W	22.40			
22.	No Load Stator Power W	125.5			
23.	Core Loss W	62.43			
24.	Friction & Windage Loss W	11.20			
25.	Locked Rotor Power W	13354			
26.	Stator I ii R Loss W	152.1			
27.	Rotor I ii R Loss W	64.38			
28.	Locked Rotor Voltage 100.0V	Current A	4.623	Power W	601.6
Remark:					
75%eff: 83.44 50%eff: 81.79					

Check:

Operator:

Torque - Speed Curve

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