Data sheet for three-phase squirrel-cage motor

Type MS 711-2 | **Cod.** E071020,3714A5A00MST | **Mounting position**

IM	B14
IM	3601

Electrical data			
Rated motor power	0.37		Kw
Rated motor speed	2730		min^{-1} 50Hz
	3280		min^{-1} 60Hz
Rated motor frequency	50		Hz
Rated motor voltage(+/-10%)	230		VΔ/50Hz
	400		VY/50Hz
	280		VΔ/60Hz
	480		VY/60Hz
Rated motor torque	1.262		Nm (Mn)
Rated motor current	1.68	VΔ/50Hz	A (In)
	0.97	VY/50Hz	A (In)
Starting motor current	6		xIn
Starting motor torque	2.2		xMn
Breakdown motor torque	2.4		xMn
Starting			D.O.L.
Efficiency class	IE1		
Efficiency	50Hz	60Hz	
	70	-	100% load
	-	-	75% load
	-	-	50% load
Power factor cosφ	0.79	0.79	100% load

General data			
Frame size	71		
Mounting	B14		
Weight	-		Kg
Casing material	Aluminum		
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	1-M20x1,5		
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	6202-2RS-C3	
	LwA	84	dB(A)	Bearing NDE side	6202-2RS-C3	
Moment of inertia	0.0004		Kgm^2	Average bearing lifetime	40000	h
Bearings type			NSK	Relubrication interval L1 DE bearing	life	h
Lubricants for bearings	See installation and maintenance manual page 12			Relubrication interval L1 NDE bearing	life	h
				Compensation ring	NDE SIDE	standard

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Type：MS711-2　　Voltage：400 V　　Design list No.：SHANGHAI TOP MOTOR

Output：0.37 kW　　Connection：Y

Frequency：50 Hz　　Duty：S1　　Report No：20090901006

Test Item		Standard		Result	
		Nominal	Tol		
1.	Efficiency %			69.9	
2.	Power Factor			0.788	
3.	Tem. Rise of Stator Winding K			60	
4.	Vibration mm/s				
5.	Noise Lp dB（A）（Lw）				
6.	Breakdown Torque/Rated Torque			2.55	
7.	Pullup Torque/Rated Torque			1.93	
8.	Locked Rotor Tor./Rated Tor.			2.78	
9.	Locked Rotor Cur./Rated Cur.			4.89	
10.	High Voltage Test V			1800	
11.	Hot Insulation Res. of Stator Winding MΩ			300.0	
12.	Temperature of Bearing℃			49	
13.	Unbalance of Current %			0.33	
14.	Full Load line Current A			0.9700	
15.	Full Load input W			529.3	
16.	Full Load torque Nm			1.264	
17.	Max.temp.of enclosure surface ℃			47.1	
18.	No Load Current A			0.8012	
19.	Slip %			6.793	
20.	Stator Winding phase resistance Ω（95℃）			28.705	
21.	Stray Load Loss W			2.647	
22.	No Load Stator Power W			94.07	
23.	Core Loss W			31.61	
24.	Friction & Windage Loss W			15.74	
25.	Locked Rotor Power W			2993	
26.	Stator I ii R Loss W			81.03	
27.	Rotor I ii R Loss W			28.30	
28	Locked Rotor Voltage 100.0V	Current A	1.076	Power W	159.8
Remark：					

Check:　　Operator: