

ABB Motors and Generators		Technical Data Sheet				
		Project	Location			
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 1/16/2019		
		Saving ident untitled.xls		Item name 1.00001		
				Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 091 110-HSCIN		Calc. ref.	3GZH021009-13	
3	Type/Frame	M2BAX 90SA 2				
4	Mounting	IM2001, B35(foot-flange)				
5	Rated output P _N	1.5	kW			
6	Service factor	1				
7	Type of duty	S1 100%				
8	Rated voltage U _N	415	VY	+10, -10 %		
9	Rated frequency f _N	50	Hz	+5, -5 %		
10	Rated speed n _N	2875	r/min			
11	Rated current I _N	3.1	A			
12						
13	Starting current I _s /I _N	6				
14	Nominal torque T _N	5	Nm			
15	Locked rotor torque T _s /T _N	2.3				
16	Maximum torque T _{max} /T _N	3				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	3.1	81.3 / IE2	0.83	
20		75	2.4	82	0.78	
21		50	1.91	80.3	0.68	
22						
23	Thermal withstand time hot	5	s			
24	Thermal withstand time cold	11	s			
25	Insulation class / Temperature class	F / B				
26	Ambient temperature	50	°C			
27	Altitude	1000	m.a.s.l.			
28	Degree of protection	IP55				
29	Cooling system	IC411 self ventilated				
30	Bearing DE/NDE	6205-2Z/C3 - 6204-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	71	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD2	0.00208	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	4	kg			
36	Total weight of motor	20	kg			
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45						
Ex-motors						
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48						
Option Variant Codes / Definition						
49						
50						
51						
52						
Remarks:						
Data based on situation 8/8/2016						

All performance values are subject to IS/IEC tolerances





