

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 093 510-ASCIN		Calc. ref.	3GZH021009-18	
3	Type/Frame	M2BAX 90LA 6				
4	Mounting	IM1001, B3(foot)				
5	Rated output P_N	1.1	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	935	r/min			
11	Rated current I_N	3.1	A			
12						
13	Starting current I_s/I_N	4.5				
14	Nominal torque T_N	11.2	Nm			
15	Locked rotor torque T_s/T_N	2.3				
16	Maximum torque T_{max}/T_N	2.9				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	3.1	78.1 / IE2	0.63	
20		75	2.8	77.3	0.53	
21		50	2.5	73.3	0.41	
22						
23	Thermal withstand time hot	11	s			
24	Thermal withstand time cold	27	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	6205-22/C3 - 6204-22/C3				
31	Sound pressure level (LP dB(A) 1m)	61	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.00507	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	6	kg			
36	Total weight of motor	24	kg			
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45						
Ex-motors						
46						
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48						
Option Variant Codes / Definition						
49						
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51						
52						
Remarks:						
Data based on situation 8/8/2016						

All performance values are subject to IS/IEC tolerances







