

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 092 510-ASCIN		Calc. ref.	3GZH021009-16
3	Type/Frame	M2BAX 90LA 4			
4	Mounting	IM1001, B3(foot)			
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	1430	r/min		
11	Rated current I_N	3.47	A		
12					
13	Starting current I_s/I_N	6			
14	Nominal torque T_N	10	Nm		
15	Locked rotor torque T_s/T_N	3			
16	Maximum torque T_{max}/T_N	3.5			
17					
18					
Load characteristics		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	3.47	82.8 / IE2	0.73
20		75	2.9	82.2	0.65
21		50	2.6	79.4	0.51
22					
23	Thermal withstand time hot	6	s		
24	Thermal withstand time cold	13	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)	64	dB(A)	at no-load	
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.00462	kg-m2		
33	Position of terminal box	Top			
34	Direction of rotation	Bi-directional			
35	Weight of rotor	5	kg		
36	Total weight of motor	23	kg		
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43					
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45					
Ex-motors					
46					
47					
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







