

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 102 510-HDCIN		Calc. ref.	3GZH021010-10	
3	Type/Frame	M2BAX 100LA 4				
4	Mounting	IM2001, B35(foot-flange)				
5	Rated output P_N	2.2	kW			
6	Service factor	1				
7	Type of duty	S1 100%				
8	Rated voltage U_N	415	VD	+10, -10 %		
9	Rated frequency f_N	50	Hz	+5, -5 %		
10	Rated speed n_N	1435	r/min			
11	Rated current I_N	4.8	A			
12						
13	Starting current I_s/I_N	7				
14	Nominal torque T_N	14.6	Nm			
15	Locked rotor torque T_s/T_N	2.6				
16	Maximum torque T_{max}/T_N	3.3				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	4.8	84.3 / IE2	0.76	
20		75	3.9	84.2	0.7	
21		50	3.3	82.1	0.56	
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	6206-2Z/C3 - 6205-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	66	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.00759	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	7	kg			
36	Total weight of motor	31	kg			
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43						
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45						
Ex-motors						
46						
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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





