

ABB Motors and Generators		Technical Data Sheet				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name 1.00001
Our ref.		Rev/Changed by A	Date of issue 1/16/2019	Saving ident untitled.xls		Pages 1(3)
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 251 210-HDCIN		Calc. ref.	3GZH021025-1	
3	Type/Frame	M2BAX 250SMA 2				
4	Mounting	IM2001, B35(foot-flange)				
5	Rated output P_N	55	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	2965	r/min			
11	Rated current I_N	92	A			
12						
13	Starting current I_s/I_N	7				
14	Nominal torque T_N	177	Nm			
15	Locked rotor torque T_s/T_N	2.5				
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	92	93.2 / IE2	0.89	
20		75	69.5	93.8	0.88	
21		50	49.1	92.8	0.84	
22						
23	Thermal withstand time hot	23	s			
24	Thermal withstand time cold	38	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	6315-2Z/C3 - 6212-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	79	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.316	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	85	kg			
36	Total weight of motor	344	kg			
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42						
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 9/19/2015						

All performance values are subject to IS/IEC tolerances





