

ABB Motors and Generators		Technical Data Sheet				
		Project	Location			
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 1/18/2019		
		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 161 420-ADDIN		Calc. ref.	3GZH021016-34	
3	Type/Frame	M2BAX 160MLB 2				
4	Mounting	IM1001, B3(foot)				
5	Rated output P_N	15	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	2940	r/min			
11	Rated current I_N	26.5	A			
12						
13	Starting current I_s/I_N	7.7				
14	Nominal torque T_N	48.7	Nm			
15	Locked rotor torque T_s/T_N	2.9				
16	Maximum torque T_{max}/T_N	4				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	26.5	91.9 / IE3	0.86	
20		75	20.7	92.1	0.82	
21		50	15.7	91.3	0.73	
22						
23	Thermal withstand time hot	16	s			
24	Thermal withstand time cold	26	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	6209-2Z/C3 - 6209-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	73	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.063	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	28	kg			
36	Total weight of motor	126	kg			
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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 9/18/2015						

All performance values are subject to IS/IEC tolerances







