

ABB Motors and Generators		Technical Data Sheet		
		Project	Location	
Department/Author		Customer name	Customer ref.	Item name 2.00005
Our ref.		Rev/Changed by A	Date of issue 6/15/2019	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 312 240-ADMIN		
3	Type/Frame	M2BAX 315SMD 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P_N	160	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	1488	r/min	
11	Rated current I_N	276	A	
12	Method of Starting	DOL		
13	Starting current I_s/I_N	7.7		
14	Nominal torque T_N	1027	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	276	95.8 / IE3 0.84
20		75	218	95.8 0.8
21		50	168	94.8 0.7
22				
23	Thermal withstand time hot	19	s	
24	Thermal withstand time cold	34	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		
30	Bearing DE/NDE	6319/C3 - 6316/C3		
31	Sound pressure level (LP dB(A) 1m)	85	dB(A)	at no-load
32	Moment of inertia $J = \frac{1}{4} GD^2$	3.2	kg-m2	
33	Position of terminal box	Top		
34	Direction of rotation	Bi-directional		
35	Weight of rotor	248	kg	
36	Total weight of motor	933	kg	
37				
38				
39				
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45				
Ex-motors				
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48				
Option Variant Codes / Definition				
49	Application check not made in absence of load details.			
50	Efficiency level : IE3 as per IS12615 2018.			
51				
52				
Remarks:				
Applicable standards: IS 12615 2018				

All performance values are subject to IS/IEC tolerances





