

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 182 410-ADDIN		Calc. ref.	3GZH021018-16
3	Type/Frame	M2BAX 180MLA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P_N	18.5	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	1475	r/min		
11	Rated current I_N	34.7	A		
12					
13	Starting current I_s/I_N	7.5			
14	Nominal torque T_N	120	Nm		
15	Locked rotor torque T_s/T_N	2.5			
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	34.7	92.6 / IE3	0.8
20		75	27.7	93	0.75
21		50	21.1	92.5	0.66
22					
23	Thermal withstand time hot	10	s		
24	Thermal withstand time cold	16	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	6310-2Z/C3 - 6209-2Z/C3			
31	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at no-load	
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.219	kg-m2		
33	Position of terminal box	Top			
34	Direction of rotation	Bi-directional			
35	Weight of rotor	56	kg		
36	Total weight of motor	192	kg		
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45					
Ex-motors					
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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







