

ABB Motors and Generators		Technical Data Sheet				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name 1.00002
Our ref.		Rev/Changed by A	Date of issue 2/19/2021	Saving ident untitled.xlsm		Pages 1(3)
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 281 110-ADCIN				
3	Type/Frame	M2BAX 280SA 2				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	75	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	2977	r/min			
11	Rated current I _N	130	A			
12						
13	Starting current I _s /I _N	7				
14	Nominal torque T _N	241	Nm			
15	Locked rotor torque T _s /T _N	2.2				
16	Maximum torque T _{max} /T _N	3.1				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	130	93.8 / IE2	0.86	
20		75	102	93.8	0.82	
21		50	76	92.8	0.74	
22						
23	Thermal withstand time hot	23	s			
24	Thermal withstand time cold	40	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	6316/C3 - 6316/C3				
31	Sound pressure level (LP dB(A) 1m)	90	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD2	0.8	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Total weight of motor	573	kg			
36	Paint shade	Munsell Blue				
37	Cable size					
38	Vibration	As Per IS 12075				
39						
40						
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45						
Ex-motors						
46						
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48						
Option Variant Codes / Definition						
49						
50						
51						
52						
Remarks:						
Applicable standards: IS 12615:2018, IEC 60034-30-1:2014						

All performance values are subject to IS/IEC tolerances





