



Technical Data Sheet



Project: Location: **United Arab Emirates**

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No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	3GBA 283 120-ADCIN		
3	Type/Frame	M2BAX 280SB 6		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	55	kW	
6	Service factor	1		
7	Type of duty	S1 100%		
8	Rated voltage U _N	400	VD	± 5 %
9	Rated frequency f _N	50	Hz	± 2 %
10	Rated speed n _N	990	r/min	
11	Rated current I _N	103	A	
12				
13	Starting current I _s /I _N	7		
14	Nominal torque T _N	531	Nm	
15	Locked rotor torque T _s /T _N	2.5		
16	Maximum torque T _{max} /T _N	2.7		
17				
18				
	Load characteristics	Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	103	93.1 / IE2
20		75	79	93.1
21		50	59.7	91.1
22				
23	Thermal withstand time hot	20	s	
24	Thermal withstand time cold	35	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)	85	dB(A)	at no-load
32	Moment of inertia J = ¼ GD2	2.2	kg-m2	
33	Position of terminal box	Top		
34	Direction of rotation	Bi-directional		
35	Weight of rotor	177	kg	
36	Total weight of motor	582	kg	
37	Paint shade	Munsell Blue		
38	Cable size			
39	Vibration	As Per IS 12075		
40				
41				
42				
43				
44				
45				
Ex-motors				
46				
47				
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