
 Technical Data Sheet					
Project		Location United Arab Emirates			
Company Trielectric International FZE	Contact Mr.Saravanan(+971564345964)	Contact Mr.Tamizh(+971502353763)	Item name 1.00017		
Our ref. Stock	Rev/Changed by A	Date of issue 9/14/2021	Saving ident 1(3)		
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GBA 222 220-BDCIN		Calc. ref. 3GZH021022-3	
3	Type/Frame	M2BAX 225SMB 4			
4	Mounting	IM3001, B5(flange)			
5	Rated output P _N	45	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	1478	r/min		
11	Rated current I _N	84.6	A		
12					
13	Starting current I _s /I _N	7			
14	Nominal torque T _N	291	Nm		
15	Locked rotor torque T _s /T _N	2.2			
16	Maximum torque T _{max} /T _N	2.9			
17					
18					
	Load characteristics	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	84.6	93.1 / IE2	0.83
20		75	65.1	93.5	0.8
21		50	49.4	92.6	0.71
22					
23	Thermal withstand time hot	15	s		
24	Thermal withstand time cold	24	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	6313-2Z/C3 - 6210-2Z/C3			
31	Sound pressure level (LP dB(A) 1m)	80	dB(A)	at no-load	
32	Moment of inertia J = ¼ GD2	0.4314	kg-m2		
33	Position of terminal box	Top			
34	Direction of rotation	Bi-directional			
35	Weight of rotor	98	kg		
36	Total weight of motor	304	kg		
37	Paint shade	Munsell Blue			
38	Cable size				
39	Vibration	As Per IS 12075			
40					
41					
42					
43					
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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