



# Technical Data Sheet



Project Location  
**United Arab Emirates**

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No.	Definition	Data	Unit	Remarks
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
2	Product code	<b>3GBA 093 110-BSCIN</b>		
3	Type/Frame	<b>M2BAX 90SA 6</b>		
4	Mounting	<b>IM3001, B5(flange)</b>		
5	Rated output P <sub>N</sub>	<b>0.75</b>	kW	
6	Service factor	<b>1</b>		
7	Type of duty	<b>S1 100%</b>		
8	Rated voltage U <sub>N</sub>	<b>400</b>	VY	± 5 %
9	Rated frequency f <sub>N</sub>	<b>50</b>	Hz	± 2 %
10	Rated speed n <sub>N</sub>	<b>945</b>	r/min	
11	Rated current I <sub>N</sub>	<b>2.3</b>	A	
12				
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>4.5</b>		
14	Nominal torque T <sub>N</sub>	<b>7.6</b>	Nm	
15	Locked rotor torque T <sub>s</sub> /T <sub>N</sub>	<b>2.4</b>		
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>3.2</b>		
17				
18				
	Load characteristics	Load %	Current A	Efficiency % Power factor
19	PLL determined from residual loss	<b>100</b>	<b>2.3</b>	<b>75.9 / IE2 0.62</b>
20		<b>75</b>	<b>2.1</b>	<b>74.3 0.52</b>
21		<b>50</b>	<b>1.91</b>	<b>69.2 0.41</b>
22				
23	Thermal withstand time hot	<b>10</b>	s	
24	Thermal withstand time cold	<b>24</b>	s	
25	Insulation class / Temperature class	<b>F / B</b>		
26	Ambient temperature	<b>50</b> °C		
27	Altitude	<b>1000</b> m.a.s.l.		
28	Degree of protection	<b>IP55</b>		
29	Cooling system	<b>IC411</b>		
30	Bearing DE/NDE	<b>6205-2Z/C3 - 6204-2Z/C3</b>		
31	Sound pressure level (LP dB(A) 1m)	<b>63</b>	dB(A)	at no-load
32	Moment of inertia J = ¼ GD2	<b>0.00438</b>	kg-m2	
33	Position of terminal box	<b>Top</b>		
34	Direction of rotation	<b>Bi-directional</b>		
35	Weight of rotor	<b>5</b>	kg	
36	Total weight of motor	<b>21</b>	kg	
37	Paint shade	<b>Munsell Blue</b>		
38	Cable size			
39	Vibration	<b>As Per IS 12075</b>		
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46	Ex-motors			
47				
48				

Option Variant Codes / Definition

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51	
52	

Remarks:  
Applicable standards: IS 12615:2018, IEC 60034-30-1:2014

All performance values are subject to IS/IEC tolerances