

IEC LV Motors		Technical Data Sheet			
		Project		Location	
Department/Author Gugan E		Customer name		Customer ref	Item name 1.00016
Our ref. Trielectric International FZE		Rev/Changed by A	Date of issue 9/25/2023	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 163 410-BDDIN		Calc. ref.	3GZH021016-39
3	Type/Frame	M2BAX 160MLA 6			
4	Mounting	IM3001, B5(flange)			
5	Rated output P _N	7.5	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	965	r/min		
11	Rated current I _N	16.8	A		
12					
13	Starting current I _s /I _N	6.5			
14	Nominal torque T _N	74	Nm		
15	Locked rotor torque T _s /T _N	1.8			
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	16.8	89.1 / IE3	0.72
20		75	13.6	90.2	0.66
21		50	11.1	90	0.54
22					
23	Thermal withstand time hot	12	s		
24	Thermal withstand time cold	19	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	6209-2Z/C3 - 6209-2Z/C3			
31	Sound pressure level (LP dB(A) 1m)	73	dB(A)	at no-load	
32	Moment of inertia J = ¼ GD2	0.089	kg-m2		
33	Position of terminal box	Top			
34	Direction of rotation	Bi-directional			
35	Weight of rotor	31	kg		
36	Total weight of motor	119	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					