


IEC LV Motors		Technical Data Sheet - DOL			
Department/Author		Project	Location		
Our ref.		Rev/Changed by	Date of issue	Saving ident	Item name
		A	10/18/2021	untitled.xlsm	1.00001
					Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GBA 091 110-AST		Calc. ref.	3GZC021009-211
3	Type/Frame	M2BAX 90SA 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.5	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	400	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	2889	r/min		
11	Rated current I _N	3.4	A		
12	No-load current	2	A		
13	Starting current I _s /I _N	7.1		Meet IEC 60034-12, N	
14	Nominal torque T _N	5	Nm		
15	Locked rotor torque T _s /T _N	3.1			
16	Maximum torque T _{max} /T _N	3.9			
17	Minimum torque T _{min} /T _N	3			
18	Speed at minimum torque	300	r/min		
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	3.4	77.2 / IE1	0.79
20		75	3	75.6	0.71
21		50	2.6	71.8	0.58
22		Start	23.9		0.6
23	Maximum starting time from hot	10	s		
24	Maximum starting time from cold	18	s		
25	Insulation class / Temperature class	F / B			
26	Ambient temperature	40	°C		
27	Altitude	1000	m.a.s.l.		
28	Enclosure	IP55			
29	Cooling system	IC411 self ventilated			
30	Bearing DE/NDE	6205-2Z/C3 - 6204-2Z/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	66	dB(A)	at load	
33	Moment of inertia J = ¼ GD ²	0.0021	kg-m ²		
34	Balancing				
35	Vibration class				
36	Position of terminal box	Top			
37	Terminal box entries; no, dimens.				
38	Number of power terminals				
39	Direction of rotation	CW or CCW			
40	Weight of rotor	4	kg		
41	Total weight of motor	21	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46					
47					
48					
Option Variant Codes / Definition					
49					
50					
51					
52					
Remarks:					
Data based on situation 7/11/2019					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					