


IEC LV Motors		Technical Data Sheet - DOL			
Project		Location			
Department/Author		Customer name		Customer ref	Item name 1.00001
Our ref.		Rev/Changed by A	Date of issue 10/18/2021	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 093 510-AST		Calc. ref.	3GZC021009-216
3	Type/Frame	M2BAX 90LA 6			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.1	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	936	r/min		
11	Rated current I _N	3.2	A		
12	No-load current	2.4	A		
13	Starting current I _s /I _N	4.6		Meet IEC 60034-12, N,(H at 60 Hz)	
14	Nominal torque T _N	11.2	Nm		
15	Locked rotor torque T _s /T _N	3			
16	Maximum torque T _{max} /T _N	3.3			
17	Minimum torque T _{min} /T _N	3			
18	Speed at minimum torque	150	r/min		
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	3.2	72.9 / IE1	0.65
20		75	3	70.5	0.56
21		50	2.8	66.2	0.43
22		Start	14.5		0.65
23	Maximum starting time from hot	35	s		
24	Maximum starting time from cold	63	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)	48	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	0.0051	kg-m2		
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	6	kg		
41	Total weight of motor	25	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 8/7/2019					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					