


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 103 510-AST		Calc. ref.	3GZC021010-154
3	Type/Frame	M2BAX 100LA 6			
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	956	r/min		
11	Rated current I _N	4.4	A		
12	No-load current	3.2	A		
13	Starting current I _s /I _N	5.8		Meet IEC 60034-12, N,(H at 60 Hz)	
14	Nominal torque T _N	15	Nm		
15	Locked rotor torque T _s /T _N	2.7			
16	Maximum torque T _{max} /T _N	3.3			
17	Minimum torque T _{min} /T _N	2.6			
18	Speed at minimum torque	200	r/min		
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	4.4	75.2 / IE1	0.63
20		75	4.1	73.2	0.54
21		50	3.9	68.2	0.41
22		Start	25.1		0.57
23	Maximum starting time from hot	30	s		
24	Maximum starting time from cold	54	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	6206-2Z/C3 - 6205-2Z/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	56	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	0.00795	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	7	kg		
41	Total weight of motor	31	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					