


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 083 320-AST			Calc. ref.	3GZC021008-194
3	Type/Frame	M2BAX 80MB 6				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	0.55	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	931	r/min			
11	Rated current I _N	1.78	A			
12	No-load current	1.11	A			
13	Starting current I _s /I _N	4.7		Meet IEC 60034-12, N,(H at 60 Hz)		
14	Nominal torque T _N	5.6	Nm			
15	Locked rotor torque T _s /T _N	3				
16	Maximum torque T _{max} /T _N	3				
17	Minimum torque T _{min} /T _N	3				
18	Speed at minimum torque	50	r/min			
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	1.78	65.8 / IE1	0.68	
20		75	1.6	63.2	0.59	
21		50	1.5	57.4	0.46	
22		Start	8.3		0.74	
23	Maximum starting time from hot	40	s			
24	Maximum starting time from cold	72	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	6204-2Z/C3 - 6203-2Z/C3				
31	Type of Grease					
32	Sound pressure level (LP dB(A) 1m)	47	dB(A)	at load		
33	Moment of inertia J = ¼ GD ²	0.00267	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	3	kg			
41	Total weight of motor	19	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						