


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 311 220-ADT		Calc. ref.	3GZC021031-168
3	Type/Frame	M2BAX 315SMB 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	132	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	400	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	2978	r/min		
11	Rated current I _N	233	A		
12	No-load current	66	A		
13	Starting current I _s /I _N	7.8		Meet IEC 60034-12, N	
14	Nominal torque T _N	423	Nm		
15	Locked rotor torque T _s /T _N	2.4			
16	Maximum torque T _{max} /T _N	3.9			
17	Minimum torque T _{min} /T _N	2.1			
18	Speed at minimum torque	2490	r/min		
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	233	93.5 / IE1	0.86
20		75	183	93.1	0.84
21		50	135	91.9	0.77
22		Start	1813		0.27
23	Maximum starting time from hot	15	s		
24	Maximum starting time from cold	27	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	6316/C3 - 6316/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	78	dB(A)	at load	
33	Moment of inertia J = ¼ GD ²	1.4	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	168	kg		
41	Total weight of motor	827	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 7/22/2019					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					