


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 283 250-ADT			Calc. ref.	3GZC021028-147
3	Type/Frame	M2BAX 280SME 6				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	55	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	989	r/min			
11	Rated current I _N	105	A			
12	No-load current	41	A			
13	Starting current I _s /I _N	6.9		Meet IEC 60034-12, N,(H at 60 Hz)		
14	Nominal torque T _N	531	Nm			
15	Locked rotor torque T _s /T _N	2.7				
16	Maximum torque T _{max} /T _N	2.9				
17	Minimum torque T _{min} /T _N	1.9				
18	Speed at minimum torque	700	r/min			
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	105	91.9 / IE1	0.81	
20		75	85	91.9	0.76	
21		50	67	91.6	0.65	
22		Start	722		0.38	
23	Maximum starting time from hot	17	s			
24	Maximum starting time from cold	31	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)	66	dB(A)	at load		
33	Moment of inertia J = ¼ GD2	1.5	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	148	kg			
41	Total weight of motor	523	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 7/18/2019						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						