


IEC LV Motors		Technical Data Sheet - DOL				
Department/Author		Project	Location		Item name	
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages	
		<b>A</b>	<b>10/18/2021</b>	<b>untitled.xlsm</b>	<b>1(3)</b>	
No.	Definition	Data	Unit	Remarks		
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>				
2	Product code	<b>3GBA 102 510-ADT</b>			Calc. ref.	3GZC021010-148
3	Type/Frame	<b>M2BAX 100LA 4</b>				
4	Mounting	<b>IM1001, B3(foot)</b>				
5	Rated output P <sub>N</sub>	<b>2.2</b>	kW			
6	Service factor	<b>1</b>				
7	Type of duty	<b>S1(IEC) 100%</b>				
8	Rated voltage U <sub>N</sub>	<b>400</b>	VD	± 5 % (IEC 60034-1)		
9	Rated frequency f <sub>N</sub>	<b>50</b>	Hz	± 2 % (IEC 60034-1)		
10	Rated speed n <sub>N</sub>	<b>1445</b>	r/min			
11	Rated current I <sub>N</sub>	<b>4.9</b>	A			
12	No-load current	<b>2.8</b>	A			
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>7.3</b>		Meet IEC 60034-12, N,(H at 60 Hz)		
14	Nominal torque T <sub>N</sub>	<b>14.5</b>	Nm			
15	Locked rotor torque T <sub>s</sub> /T <sub>N</sub>	<b>3.2</b>				
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>3.9</b>				
17	Minimum torque T <sub>min</sub> /T <sub>N</sub>	<b>3</b>				
18	Speed at minimum torque	<b>225</b>	r/min			
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	<b>100</b>	<b>4.9</b>	<b>79.7 / IE1</b>	<b>0.77</b>	
20		<b>75</b>	<b>4.4</b>	<b>79</b>	<b>0.69</b>	
21		<b>50</b>	<b>3.9</b>	<b>76.1</b>	<b>0.54</b>	
22		<b>Start</b>	<b>36</b>		<b>0.58</b>	
23	Maximum starting time from hot	<b>15</b>	s			
24	Maximum starting time from cold	<b>27</b>	s			
25	Insulation class / Temperature class	<b>F / B</b>				
26	Ambient temperature	<b>40</b>	°C			
27	Altitude	<b>1000</b>	m.a.s.l.			
28	Enclosure	<b>IP55</b>				
29	Cooling system	<b>IC411 self ventilated</b>				
30	Bearing DE/NDE	<b>6206-2Z/C3 - 6205-2Z/C3</b>				
31	Type of Grease					
32	Sound pressure level (LP dB(A) 1m)	<b>55</b>	dB(A)	at load		
33	Moment of inertia J = ¼ GD <sup>2</sup>	<b>0.00759</b>	kg-m <sup>2</sup>			
34	Balancing					
35	Vibration class					
36	Position of terminal box	<b>Top</b>				
37	Terminal box entries; no, dimens.					
38	Number of power terminals					
39	Direction of rotation	<b>CW or CCW</b>				
40	Weight of rotor	<b>7</b>	kg			
41	Total weight of motor	<b>31</b>	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						