

ABB Motors and Generators		Technical Data Sheet - DOL				
Project		Location				
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 3/19/2018		
		Saving ident untitled.xls		Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	EMM10034-PP (3GBP 102 820-ACK)				
3	Type/Frame	Calc. ref. 3GZF021010-92				
4	Mounting	M3BP 100LKB 4				
5	Rated output P_N	IM1001, B3(foot)				
6	Service factor	3 kW				
7	Type of duty	1				
8	Rated voltage U_N	S1(IEC) 100%				
9	Rated frequency f_N	460 VY $\pm 5\%$ (IEC 60034-1)				
10	Rated speed n_N	60 Hz $\pm 2\%$ (IEC 60034-1)				
11	Rated current I_N	1757 r/min				
12	No-load current	5.1 A				
13	Starting current I_s/I_N	2.6 A				
14	Nominal torque T_N	8.8 Meet IEC 60034-12, N				
15	Locked rotor torque T_s/T_N	16.3 Nm				
16	Maximum torque T_{max}/T_N	2.5				
17	Minimum torque T_{min}/T_N	4.7				
18	Speed at minimum torque	2.4				
19	Load characteristics (CSA 390-10)	306 r/min				
20	NEMA nominal efficiency (*)	Load %	Current A	Efficiency %	Power factor	
21		100	5.1	39.5 / IE3 / 87.5	0.82	
22		75	4.2	89.6	0.75	
23		50	3.4	88.2	0.63	
24		Start	45		0.41	
25	Maximum starting time from hot	15 s				
26	Maximum starting time from cold	27 s				
27	Insulation class / Temperature class	F / B				
28	Ambient temperature	40 °C				
29	Altitude	1000 m.a.s.l.				
30	Enclosure	IP55				
31	Cooling system	IC411 self ventilated				
32	Bearing DE/NDE	6206-2Z/C3 - 6205-2Z/C3				
33	Type of Grease					
34	Sound pressure level (LP dB(A) 1m)	61 dB(A) at load				
35	Moment of inertia $J = \frac{1}{4} GD^2$	0.0146 kg-m2				
36	Balancing					
37	Vibration class					
38	Position of terminal box	Top				
39	Terminal box entries; no, dimens.					
40	Number of power terminals					
41	Direction of rotation	CW or CCW				
42	Weight of rotor	12 kg				
43	Total weight of motor	49 kg				
44	Dimension drawing no.					
45						
Ex-motors						
46						
47						
48						
Option Variant Codes / Definition						
49	+509 Fulfilling EISA Subtype I efficiency requirements, CC031A					
50						
51						
52						
Remarks:						
Data based on situation 8/23/2017						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						



