

ABB Motors and Generators		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 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	EMVM10116C-PP (3GBP 103 870-BCK)		Calc. ref.	3GZF021010-93
3	Type/Frame	M3BP 100LKG 6			
4	Mounting	IM3601, B14(flange)			
5	Rated output P_N	1.1	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U_N	460	VY	$\pm 5\%$ (IEC 60034-1)	
9	Rated frequency f_N	60	Hz	$\pm 2\%$ (IEC 60034-1)	
10	Rated speed n_N	1171	r/min		
11	Rated current I_N	2.3	A		
12	No-load current	1.4	A		
13	Starting current I_s/I_N	4.6		Not within IEC 60034-12 design	
14	Nominal torque T_N	9	Nm		
15	Locked rotor torque T_s/T_N	1.3			
16	Maximum torque T_{max}/T_N	2.7			
17	Minimum torque T_{min}/T_N	1.2			
18	Speed at minimum torque	180	r/min		
Load characteristics (CSA 390-10)		Load %	Current A	Efficiency %	Power factor
19		100	2.3	87.5 / IE3	0.66
20		75	2	87.5	0.58
21		50	1.75	85.9	0.46
22		Start	10.6		0.27
23	Maximum starting time from hot	32	s		
24	Maximum starting time from cold	58	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	6206-2Z/C3 - 6205-2Z/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	52	dB(A)	at load	
33	Moment of inertia $J = \frac{1}{4} GD^2$	0.0025	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	12	kg		
41	Total weight of motor	47	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46					
47					
48					
Option Variant Codes / Definition					
49	+047 IM 3601 flange mounted, IEC flange, from IM 3001 (B14 from B5)				
50	+509 Fulfilling EISA Subtype I efficiency requirements, CC031A				
51					
52					
Remarks:					
Data based on situation 11/3/2017					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					



