

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	EMVM10032C-PP (3GBP 101 810-BCK)			
3	Type/Frame	M3BP 100LKA 2			
4	Mounting	IM3601, B14(flange)			
5	Rated output P _N	3	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	460	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	60	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	3516	r/min		
11	Rated current I _N	4.7	A		
12	No-load current	1.7	A		
13	Starting current I _s /I _N	10		Meet IEC 60034-12, N	
14	Nominal torque T _N	8.1	Nm		
15	Locked rotor torque T _s /T _N	3.4			
16	Maximum torque T _{max} /T _N	5			
17	Minimum torque T _{min} /T _N	3.3			
18	Speed at minimum torque	540	r/min		
Load characteristics (CSA 390-10)		Load %	Current A	Efficiency %	Power factor
19	NEMA nominal efficiency (*)	100	4.7	38.5 / IE3 / 85.5	0.89
20		75	3.8	88.2	0.85
21		50	2.8	86	0.77
22		Start	47		0.46
23	Maximum starting time from hot	10	s		
24	Maximum starting time from cold	19	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)	71	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	0.0086	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	10	kg		
41	Total weight of motor	50	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 7/26/2017					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					



