

ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)	

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	EMM09152-PP (3GBP091520-ACK+332+509)			
3	Type/Frame	M3BP 90 LB 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.5	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	3509	r/min		
11	Rated current I _N	2.4	A		
12	No-load current	0.68	A		
13	Starting current I _s /I _N	8.5		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	4.1	Nm		
15	Locked rotor torque T _S /T _N	2.1			
16	Maximum torque T _{max} /T _N	3.8			
17	Minimum torque T _{min} /T _N	2.1			
18	Speed at minimum torque	0	r/min		
19	Load characteristics (CSA 390-10)	Load %	Current A	Efficiency %	Power factor
20	NEMA nominal efficiency (*)	100	2.4	35.5 / IE3 / 84.0	0.89
21		75	1.9	85.2	0.87
22		50	1.39	83.1	0.81
23		Start	21		0.66
24	Maximum starting time from hot	10	s		
25	Maximum starting time from cold	18	s		
26	Insulation class / Temperature class	F / B			
27	Ambient temperature	40	°C		
28	Altitude	1000	m.a.s.l.		
29	Enclosure	IP55			
30	Cooling system	IC411 self ventilated			
31	Bearing DE/NDE	6205-2Z/C3 - 6204-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	76	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.0031	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM32x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	31	kg		
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Variant Codes / Definition

332 = Baldor catalog number
509 = Fulfilling EISA Subtype I efficiency requirements, CC031A

Remarks:

Data based on situation
All data subject to tolerances in accordance with IEC
Guaranteed values on request



