

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 2/1/2016	Saving ident untitled.xls	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	EMM16182-PPN (3GBP161430-A) Calc. ref. 3GZF021016-201		
3	Type/Frame	M3BP 160MLC 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	18.5	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	400	VD	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	2942	r/min	
11	Rated current I _N	30.8	A	
12	No-load current	7.6	A	
13	Starting current I _s /I _N	8.3		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	60	Nm	
15	Locked rotor torque T _s /T _N	3.1		
16	Maximum torque T _{max} /T _N	3.6		
17	Minimum torque T _{min} /T _N	2.6		
18	Speed at minimum torque	510	r/min	
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	30.8	93.1 / IE3
20		75	23.4	93.9
21		50	16.5	93.9
22		Start	256	0.46
23	Maximum starting time from hot	15	s	
24	Maximum starting time from cold	27	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	6309/C3 - 6209/C3		
31	Type of Grease			
32	Sound pressure level (LP dB(A) 1m)	69	dB(A)	at load
33	Moment of inertia J = ¼ GD2	0.072	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	35	kg	
41	Total weight of motor	176	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 9/8/2015				
All data subject to tolerances in accordance with IEC				
Guaranteed values on request				