


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
		A	22/12/2013	untitled.xls	1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GBP 351 230-ADK			
3	Type/Frame	M3BP 355 SMC 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	315	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	2984	r/min		
11	Rated current I _N	529	A		
12	No-load current	135	A		
13	Starting current I _s /I _N	7.8		Fulfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	1008	Nm		
15	Locked rotor torque T _s /T _N	2.3			
16	Maximum torque T _{max} /T _N	2.8			
17	Minimum torque T _{min} /T _N	2			
18	Speed at minimum torque	2550	r/min		
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	529	96.4 / IE3	0.89
20		75	406	96.4	0.87
21		50	292	95.9	0.81
22		<i>Start</i>	4133		0.25
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	6316M/C3 - 6316M/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	83	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	3.6	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	Total weight of motor	1750	kg		
41	Dimension drawing no.				
42					
43					
44					
45					
Ex-motors					
46					
47					
48					
Option Variant Codes / Definition					
49					
50					
51					
52					
53					
54					
55					
Remarks:					
Data based on situation 04/11/2012					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					