


ABB Motors and Generators		Technical Data Sheet				
Department/Author		Project	Location		Item name	
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages	
		A	1/18/2019	untitled.xls	1.00001 1(3)	
No.	Definition	Data	Unit	Remarks		
1	Product	<i>TEFC, 3-phase, squirrel cage induction motor</i>				
2	Product code	<i>E3BAF355MLB6H</i>				
3	Type/Frame	<i>E3BAF355MLB6H</i>				
4	Mounting	<i>IM3001, B35(foot cum flange)</i>				
5	Rated output P _N	355	kW			
6	Service factor	1				
7	Type of duty	<i>S1 100%</i>				
8	Rated voltage U _N	415	VD	± 10 %		
9	Rated frequency f _N	50	Hz	± 5 %		
10	Rated speed n _N	990	r/min			
11	Rated current I _N	614	A			
12	Method of starting	<i>DOL</i>				
13	Starting current I _s /I _N	<i>7.7</i>				
14	Nominal torque T _N	3424	Nm			
15	Locked rotor torque T _s /T _N	<i>1.3</i>				
16	Maximum torque T _{max} /T _N	<i>2.7</i>				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	614	95.8 / IE3	0.84	
20		75	483	95.8	0.8	
21		50	371	93.8	0.71	
22						
23	Thermal withstand time hot	58	s			
24	Thermal withstand time cold	116	s			
25	Insulation class / Temperature class	<i>F / F</i>				
26	Ambient temperature	50	°C			
27	Altitude	<i>1000</i> m.a.s.l.				
28	Degree of protection	<i>IP55</i>				
29	Cooling system	<i>IC411 self ventilated</i>				
30	Bearing DE/NDE	<i>6322/C3 - 6319/C3</i>				
31	Sound pressure level (LP dB(A) 1m)	85	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD2	15.975	kg-m2			
33	Position of terminal box	<i>Top</i>				
34	Direction of rotation	<i>Bi-directional</i>				
35	Total weight of motor	2250	kg			
36		<i>User defined motor</i>				
37						
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43						
44						
45						
Ex-motors						
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48						
Option Variant Codes / Definition						
49	Application check not made in absence of load details					
50	Efficiency level: IE3 as per IS 12615 2018					
51	Temperature rise limited to class F					
52						
Remarks:						
10/2/2014						