



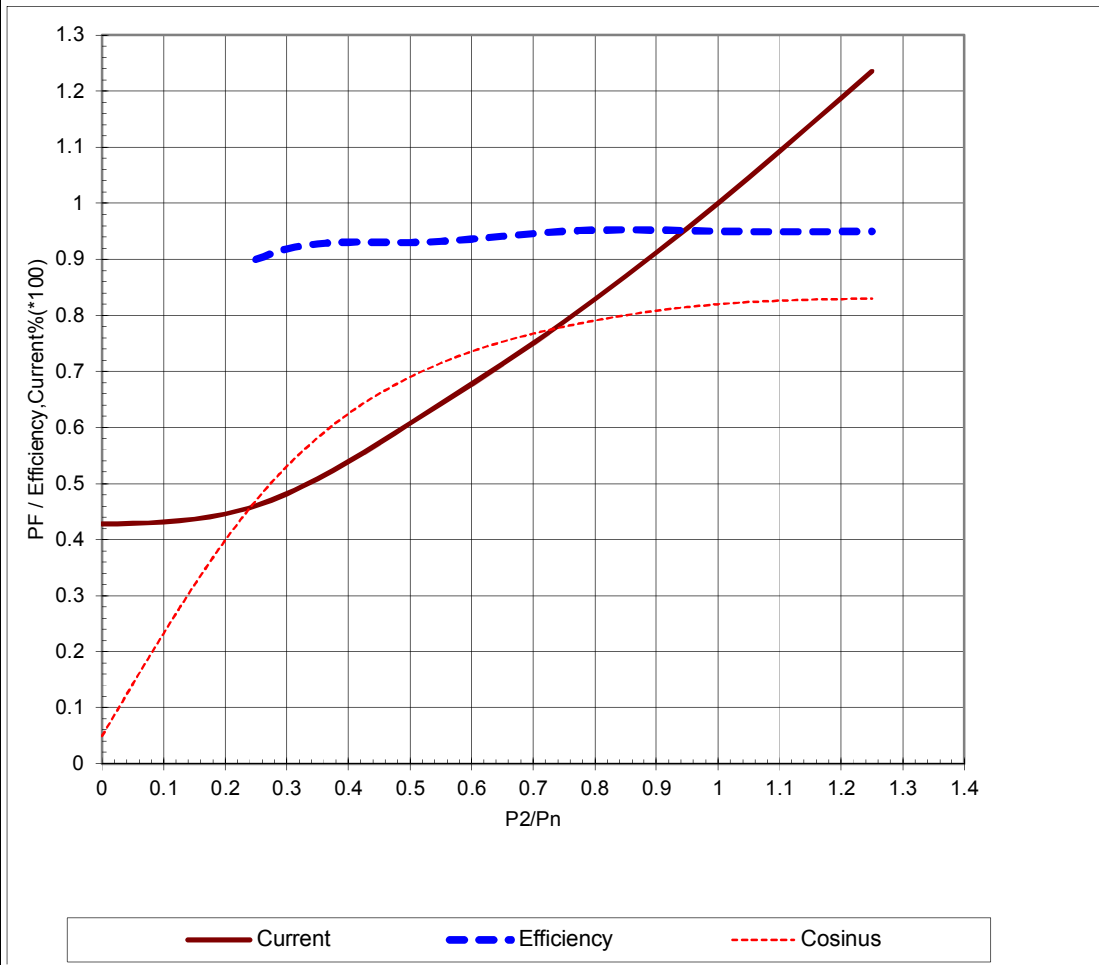
ABB Motors and Generators		Technical Data Sheet				
Project		Location				
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 1/17/2019		
		Saving ident untitled.xls		Item name 1.00001		
				Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	E2BA 355 MLB6k				
3	Type/Frame	E2BA355MLB6k				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	275	kW			
6	Service factor	1				
7	Type of duty	S1 100%				
8	Rated voltage U _N	415	VD	+10, -10 %		
9	Rated frequency f _N	50	Hz	+5, -5 %		
10	Rated speed n _N	990	r/min			
11	Rated current I _N	491	A			
12	Method of starting	DOL				
13	Starting current I _s /I _N	7				
14	Nominal torque T _N	2653	Nm			
15	Locked rotor torque T _S /T _N	2.5				
16	Maximum torque T _{max} /T _N	2.8				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	491	95.0 / IE2	0.82	
20		75	387	95	0.78	
21		50	298	93	0.69	
22						
23	Thermal withstand time hot	52	s			
24	Thermal withstand time cold	107	s			
25	Insulation class / Temperature class	F / B				
26	Ambient temperature	50	°C			
27	Altitude	1000 m.a.s.l.				
28	Degree of protection	IP55				
29	Cooling system	IC411 self ventilated				
30	Bearing DE/NDE	6322/C3 - 6319/C3				
31	Sound pressure level (LP dB(A) 1m)	85	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD ²	15.06	kg-m ²			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Total weight of motor	2040	kg			
36		User defined motor				
37						
38						
39						
40						
41						
42						
43						
44						
45						
Ex-motors						
46						
47						
48						
Option Variant Codes / Definition						
49	Application check not made in absence of load details					
50	Efficiency level: IE2 as per IS 12615 2018					
51						
52						
Remarks:						
10/2/2014						

ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed by A	Date of issue 1/17/2019	Saving ident untitled.xls


Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	E2BA355MLB6k		
Product code	E2BA 355 MLB6k		
Rated output P _N	275	kW	
Type of duty	S1 100%		

Voltage (V)	415	Current I _N (A)	491	Power factor at P _N	0.82
Frequency (Hz)	50	Speed (r/min)	990	Efficiency (%) at P _N	95

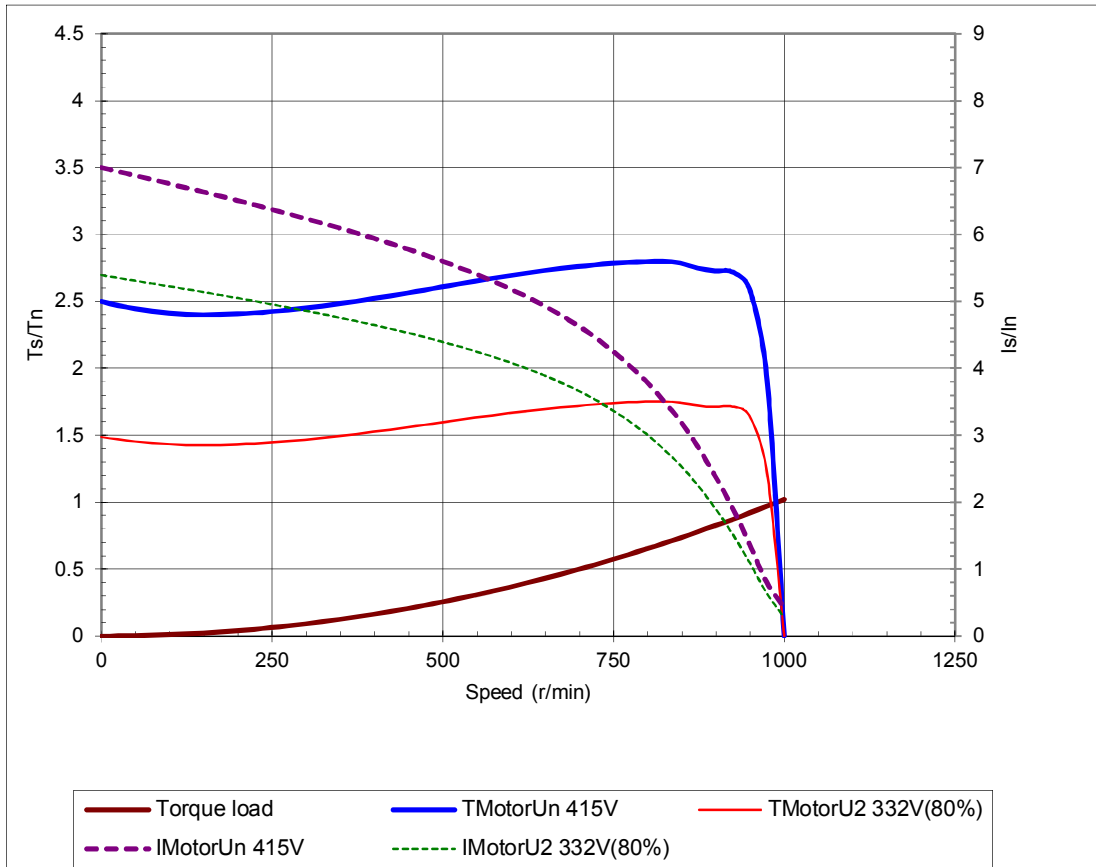


Data based on situation 10/2/2014

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004


ABB Motors and Generators	Starting Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/17/2019	Saving ident untitled.xls	Pages 3(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	E2BA355MLB6k		
Product code	E2BA 355 MLB6k	Frequency (Hz)	50
Rated output P _N	275 kW	Rated current I _N	491 A
Type of duty	S1 100%		

J _{motor} (kgm ²)	15.1	Voltage (V) 100%	415	Voltage (V)	332V(80%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N	1.5
Speed (r/min)	990	Starting time (s)	0.3	Starting time (s)	0.5
T _N (Nm)	2653	Speed (r/min)	989	Speed (r/min)	982
T _{load} (Nm)	2653	I _s /I _N	7	I _s /I _N	5.4
		T _{max} /T _N	2.8	T _{max} /T _N	1.8




Data based on situation 10/2/2014

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004

ABB Motors and Generators	Current & Speed Vs Time			
	Project	Location		
Department/Author	Customer name	Customer ref.	Item name 1.00001	
Our ref.	Rev/Changed b Date of issue A 1/17/2019	Saving ident untitled.xls	Pages 4(3)	
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	E2BA355MLB6k			
Product code	E2BA 355 MLB6k	Frequency (Hz)	50	
Rated output P _N	275 kW	Rated current I _N	491	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	15.1	Voltage (V) 100%	415	Voltage (V) 332V(80%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N 1.5
Speed (r/min)	990	Starting time (s)	0.3	Starting time (s) 0.5
T _N (Nm)	2653	Speed (r/min)	989	Speed (r/min) 982
T _{load} (Nm)	2653	I _s /I _N	7	I _s /I _N 5.4
		T _{max} /T _N	2.8	T _{max} /T _N 1.8

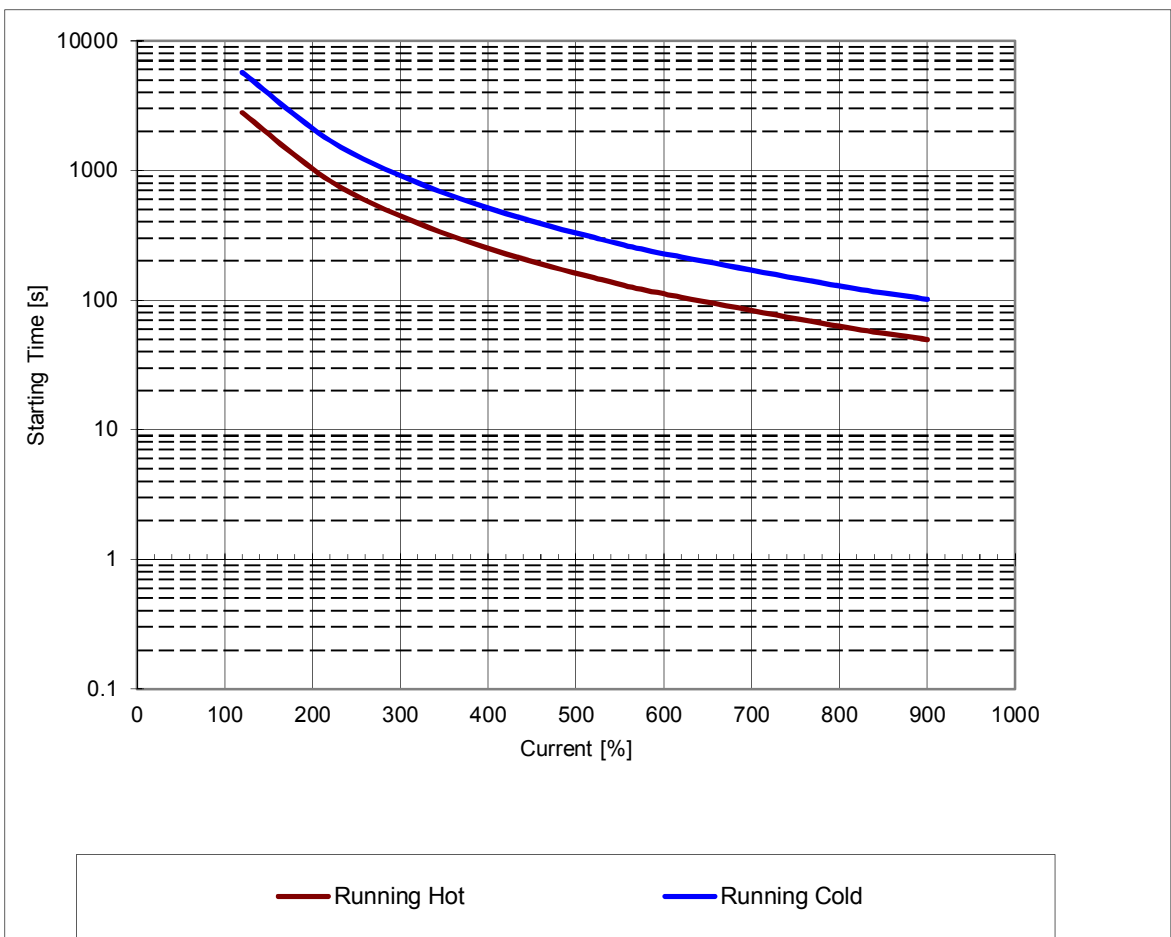
Starting Time [s]	Speed [rpm]	Current [A]
0.00	0	1050
0.05	200	950
0.10	400	850
0.15	600	750
0.20	800	600
0.25	950	400
0.30	1000	100

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ABB Motors and Generators	Thermal Withstand Curve		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/17/2019	Saving ident untitled.xls	Pages 5(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	E2BA355MLB6k		
Product code	E2BA 355 MLB6k	Frequency (Hz)	50
Rated output P _N	275 kW	Rated current I _N	491 A
Type of duty	S1 100%		

J _{motor} (kgm ²)	15.1	Voltage (V) 100%	415	Voltage (V)	332V(80%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N	1.5
Speed (r/min)	990	Starting time (s)	0.3	Starting time (s)	0.5
T _N (Nm)	2653	Speed (r/min)	989	Speed (r/min)	982
T _{load} (Nm)	2653	I _s /I _n	7	I _s /I _n	5.4
		T _{max} /T _n	2.8	T _{max} /T _n	1.8



Data based on situation 10/2/2014

All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004