


ABB Motors and Generators		Technical Data Sheet				
Project		Location				
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 1/18/2019		
		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	3GBA 083 330-BSDIN				
3	Type/Frame	M2BAX 80MC 6				
4	Mounting	IM3001, B5(flange)				
5	Rated output P _N	0.37	kW			
6	Service factor	1				
7	Type of duty	S1 100%				
8	Rated voltage U _N	415	VY	+10, -10 %		
9	Rated frequency f _N	50	Hz	+5, -5 %		
10	Rated speed n _N	931	r/min			
11	Rated current I _N	1.15	A			
12						
13	Starting current I _s /I _N	3.9				
14	Nominal torque T _N	3.8	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	1.15	73.5 / IE3	0.65	
20		75	0.96	73	0.55	
21		50	0.94	67	0.41	
22						
23	Thermal withstand time hot	12	s			
24	Thermal withstand time cold	21	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	6204-2Z/C3 - 6203-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	60	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD ²	0.0022	kg·m ²			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Total weight of motor	15	kg			
36		User defined motor				
37						
38						
39						
40						
41						
42						
43						
44						
45						
Ex-motors						
46						
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48						
Option Variant Codes / Definition						
49						
50						
51						
52						
Remarks:						
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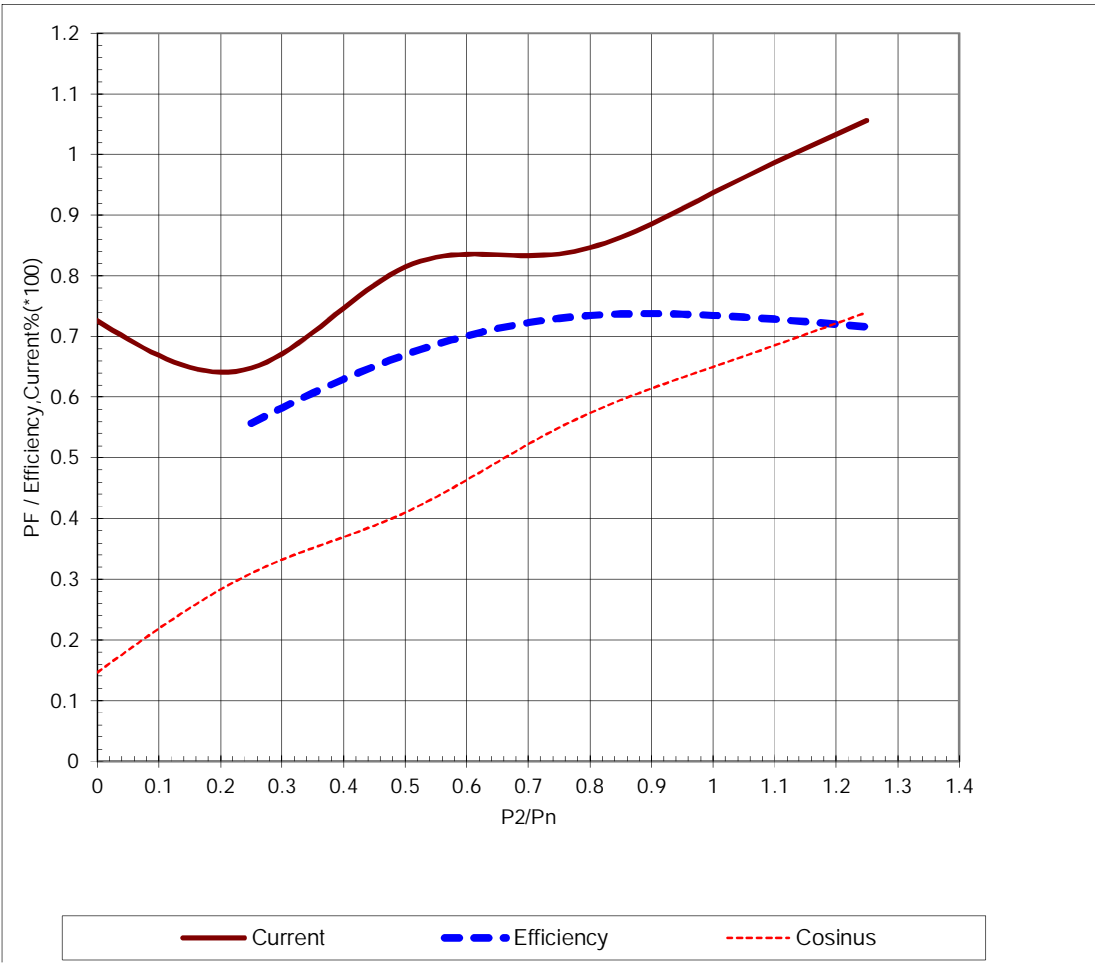
ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed by A	Date of issue 1/18/2019	Saving ident untitled.xls
Pages 2(3)	Product TEFC, 3-phase, squirrel cage induction motor		
Type/Frame M2BAX 80MC 6			
Product code 3GBA 083 330-BSDIN			
Rated output P _N 0.37 kW			
Type of duty S1 100%			
Voltage (V)	415	Current I _N (A)	1.15
Frequency (Hz)	50	Speed (r/min)	931
		Power factor at P _N	0.65
		Efficiency (%) at P _N	73.5
			
<p>Data based on situation 12/21/2015</p> <p style="text-align: center;">All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004</p>			


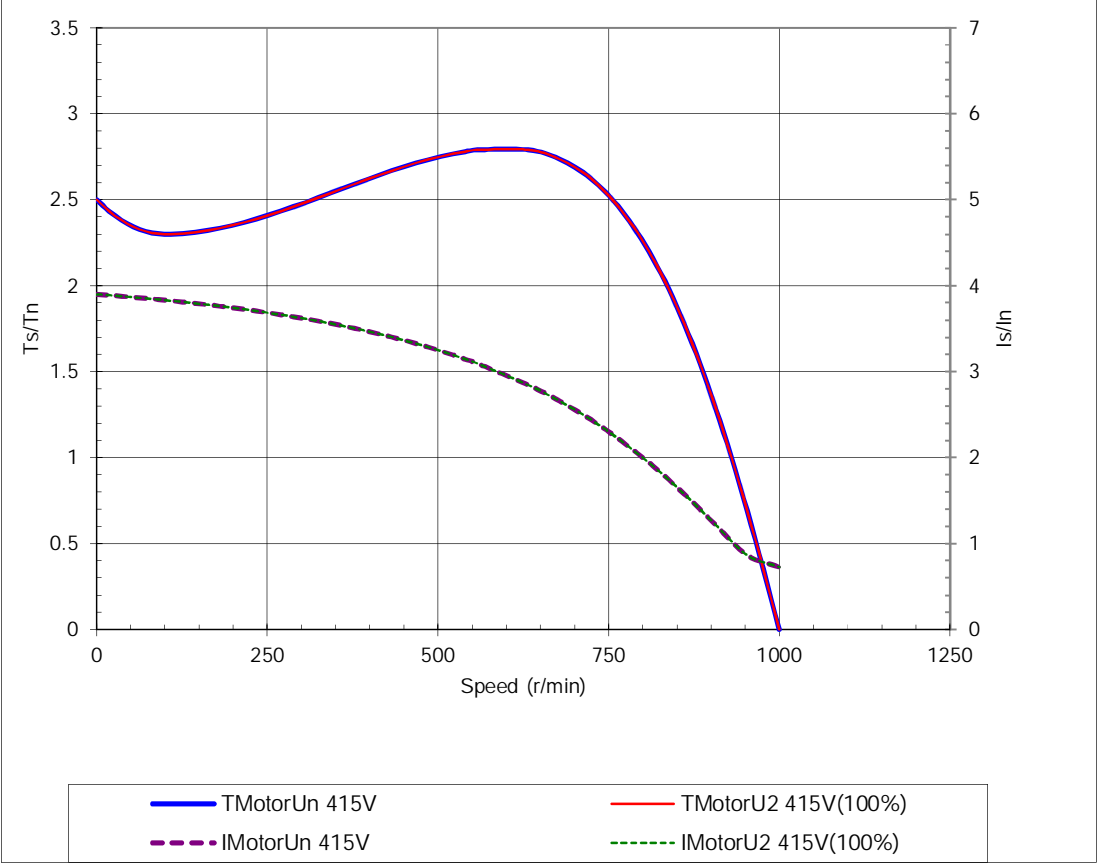

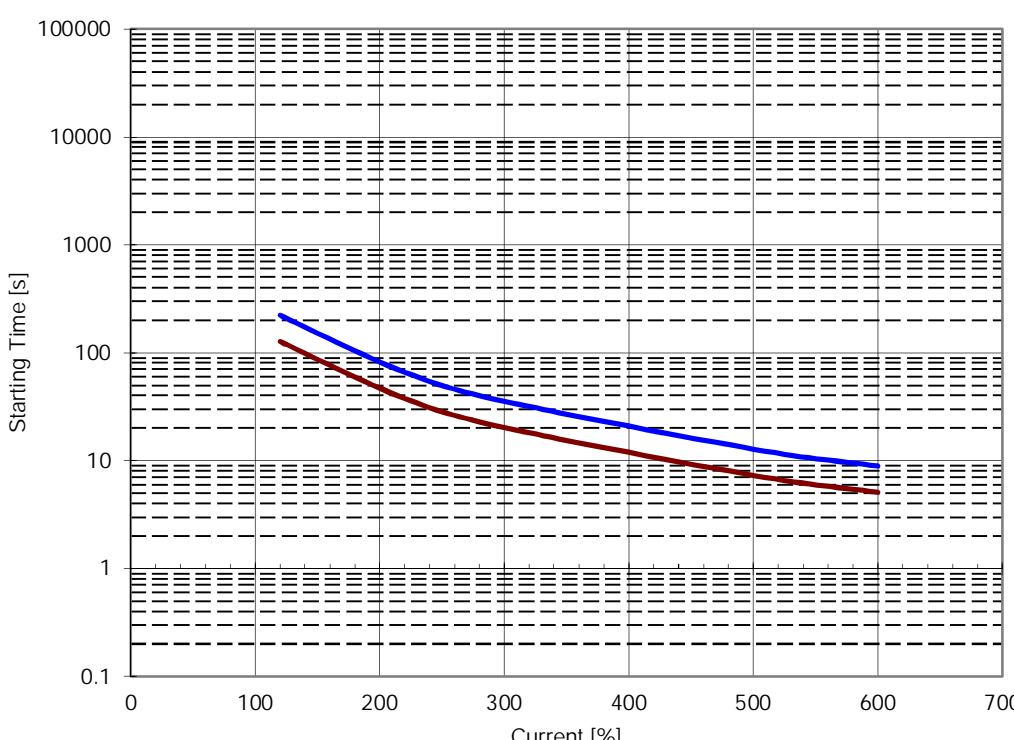
ABB Motors and Generators	Starting Curves			
	Project	Location		
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed by A	Date of issue 1/18/2019	Saving ident untitled.xls	Pages 3(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 80MC 6			
Product code	3GBA 083 330-BSDIN	Frequency (Hz)	50	
Rated output P _N	0.37 kW	Rated current I _N	1.15	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.0022	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N 2.5
Speed (r/min)	931	Starting time (s)		Starting time (s)
T _N (Nm)	3.8	Speed (r/min)		Speed (r/min) 939
T _{load} (Nm)		I _s /I _N	3.9	I _s /I _N 3.9
		T _{max} /T _N	2.8	T _{max} /T _N 2.8
				
Data based on situation 12/21/2015				
All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004				

ABB Motors and Generators	Thermal Withstand Curve			
	Project	Location		
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed by A	Date of issue 1/18/2019	Saving ident untitled.xls	Pages 5(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 80MC 6			
Product code	3GBA 083 330-BSDIN	Frequency (Hz)	50	
Rated output P _N	0.37 kW	Rated current I _N	1.15	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.0022	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N 2.5
Speed (r/min)	931	Starting time (s)		Starting time (s)
T _N (Nm)	3.8	Speed (r/min)		Speed (r/min) 939
T _{load} (Nm)		I _s /I _n	3.9	I _s /I _n 3.9
		T _{max} /T _n	2.8	T _{max} /T _n 2.8



Current [%]	Running Hot [s]	Running Cold [s]
100	~100	~200
200	~40	~80
300	~25	~50
400	~18	~35
500	~13	~25
600	~10	~18

Data based on situation 12/21/2015
All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004