ABB Motors and Generators	Technical Data Sheet			
	Project		Location	
Department/Author	Customer name		Customer ref.	Item name **1.00001**
Our ref.	Rev/Changed by **A**	Date of issue **1/16/2019**	Saving ident **untitled.xls**	Pages **1(3)**

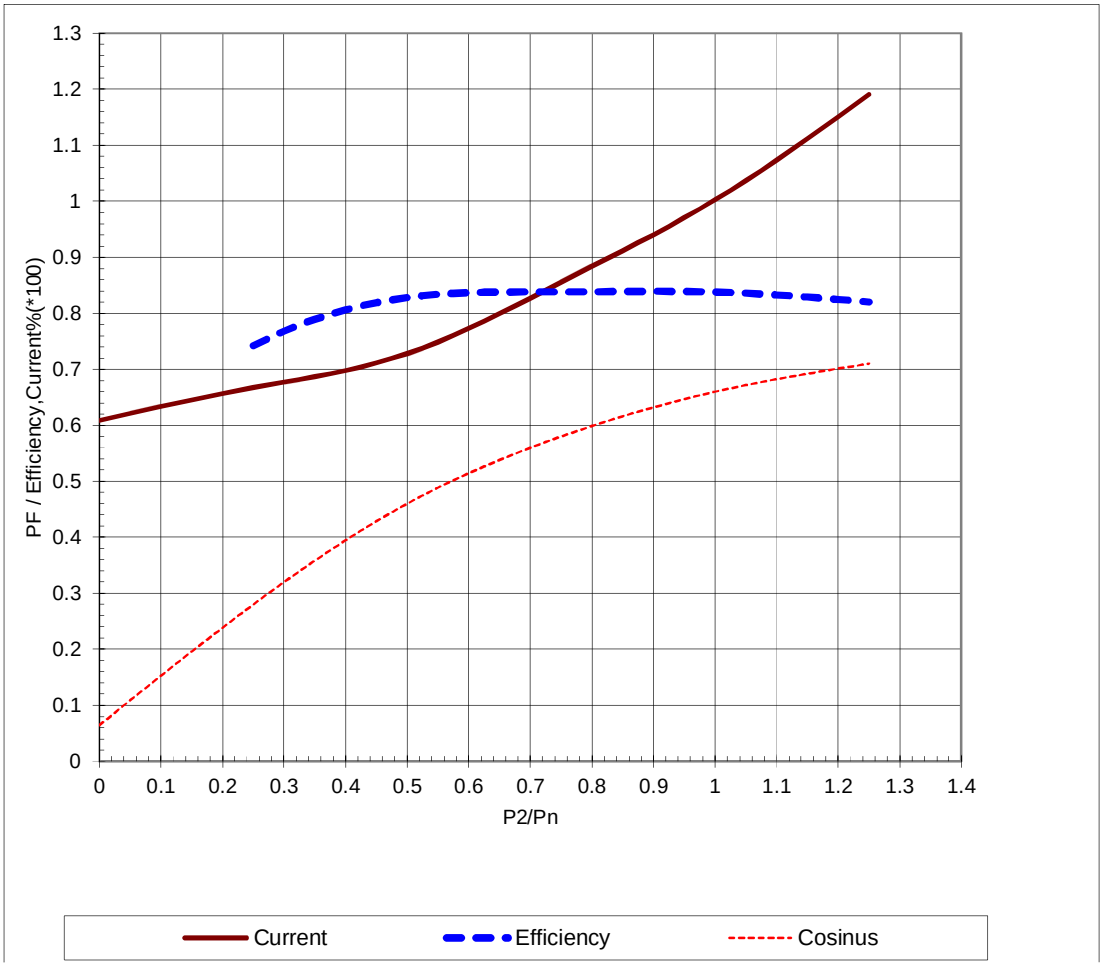
No.	Definition	Data	Unit	Remarks	
1	Product	***TEFC, 3-phase, squirrel cage induction motor***			
2	Product code	***3GBA 164 045-ADCIN***			
3	Type/Frame	***M2BAX 160MLB 8***			
4	Mounting	***IM1001, B3(foot)***			
5	Rated output P_N	***5.5***	kW		
6	Service factor	***1***			
7	Type of duty	***S1 100%***			
8	Rated voltage U_N	***415***	VD	+10, -10 %	
9	Rated frequency f_N	***50***	Hz	+5, -5 %	
10	Rated speed n_N	***720***	r/min		
11	Rated current I_N	***13.8***	A		
12					
13	Starting current I_s/I_N	***5***			
14	Nominal torque T_N	***73***	Nm		
15	Locked rotor torque T_S/T_N	***1.5***			
16	Maximum torque T_{max}/T_N	***2.3***			
17					
18					
	Load characteristics	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	*100*	**13.8**	**83.8 / IE2**	**0.66**
20		*75*	**11.8**	**83.8**	**0.58**
21		*50*	**10**	**82.8**	**0.46**
22					
23	Thermal withstand time hot	***20***	s		
24	Thermal withstand time cold	***36***	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	***6209-2Z/C3 - 6209-2Z/C3***			
31	Sound pressure level (LP dB(A) 1m)	***68***	dB(A)	at no-load	
32	Moment of inertia J = ¼ GD2	***0.094***	kg-m2		
33	Position of terminal box	***Top***			
34	Direction of rotation	***Bi-directional***			
35	Total weight of motor	***127***	kg		
36		***User defined motor***			
37					
38					
39					
40					
41					
42					
43					
44					
45					
Ex-motors					
46					
47					
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 / Date of issue	Saving ident	Pages
	A **1/16/2019**	**untitled.xls**	**2(3)**

Product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M2BAX 160MLB 8**				
Product code	**3GBA 164 045-ADCIN**				
Rated output P_N	**5.5** kW				
Type of duty	**S1 100%**				
Voltage (V)	**415**	Current I_N (A)	**13.8**	Power factor at P_N	**0.66**
Frequency (Hz)	**50**	Speed (r/min)	**720**	Efficiency (%) at P_N	**83.8**



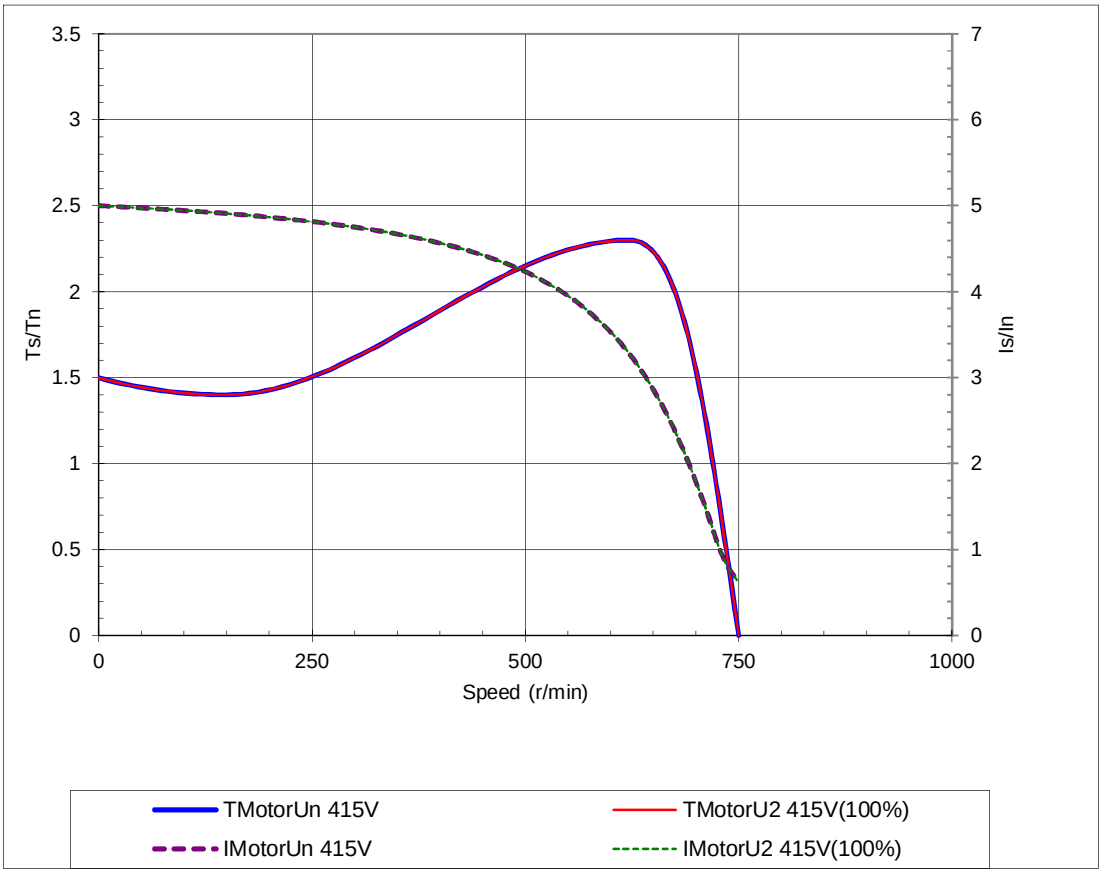
Data based on situation 4/10/2018

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	Saving ident	Pages
	A 1/16/2019	untitled.xls	3(3)

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M2BAX 160MLB 8**				
Product code	**3GBA 164 045-ADCIN**		Frequency (Hz)	**50**	
Rated output P_N	**5.5**	kW	Rated current I_N	**13.8**	A
Type of duty	**S1 100%**				

J_{motor} (kgm2)	**0.094**	Voltage (V) 100%	***415***	Voltage (V)	***415V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***1.5***	T_{start}/T_N	***1.5***
Speed (r/min)	**720**	Starting time (s)	***0.1***	Starting time (s)	
T_N (Nm)	**73**	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	***5***	I_s/I_n	***5***
		T_{max}/T_n	***2.3***	T_{max}/T_n	***2.3***



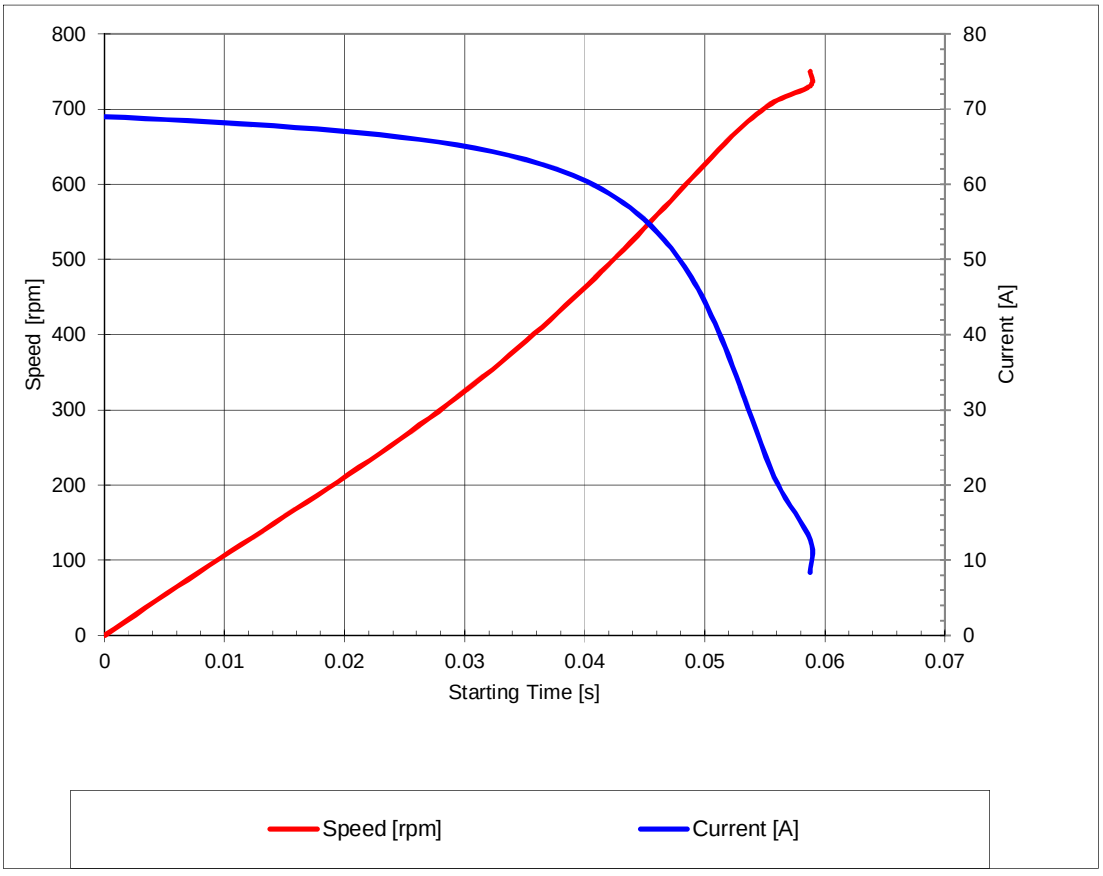
Data based on situation 4/10/2018

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** **1/16/2019**	Saving ident **untitled.xls**	Pages **4(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M2BAX 160MLB 8**				
Product code	**3GBA 164 045-ADCIN**		Frequency (Hz)	**50**	
Rated output P_N	**5.5**	kW	Rated current I_N	**13.8**	A
Type of duty	**S1 100%**				

J_{motor} (kgm2)	**0.094**	Voltage (V) 100%	***415***	Voltage (V)	***415V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***1.5***	T_{start}/T_N	***1.5***
Speed (r/min)	**720**	Starting time (s)	***0.1***	Starting time (s)	
T_N (Nm)	**73**	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	***5***	I_s/I_n	***5***
		T_{max}/T_n	***2.3***	T_{max}/T_n	***2.3***



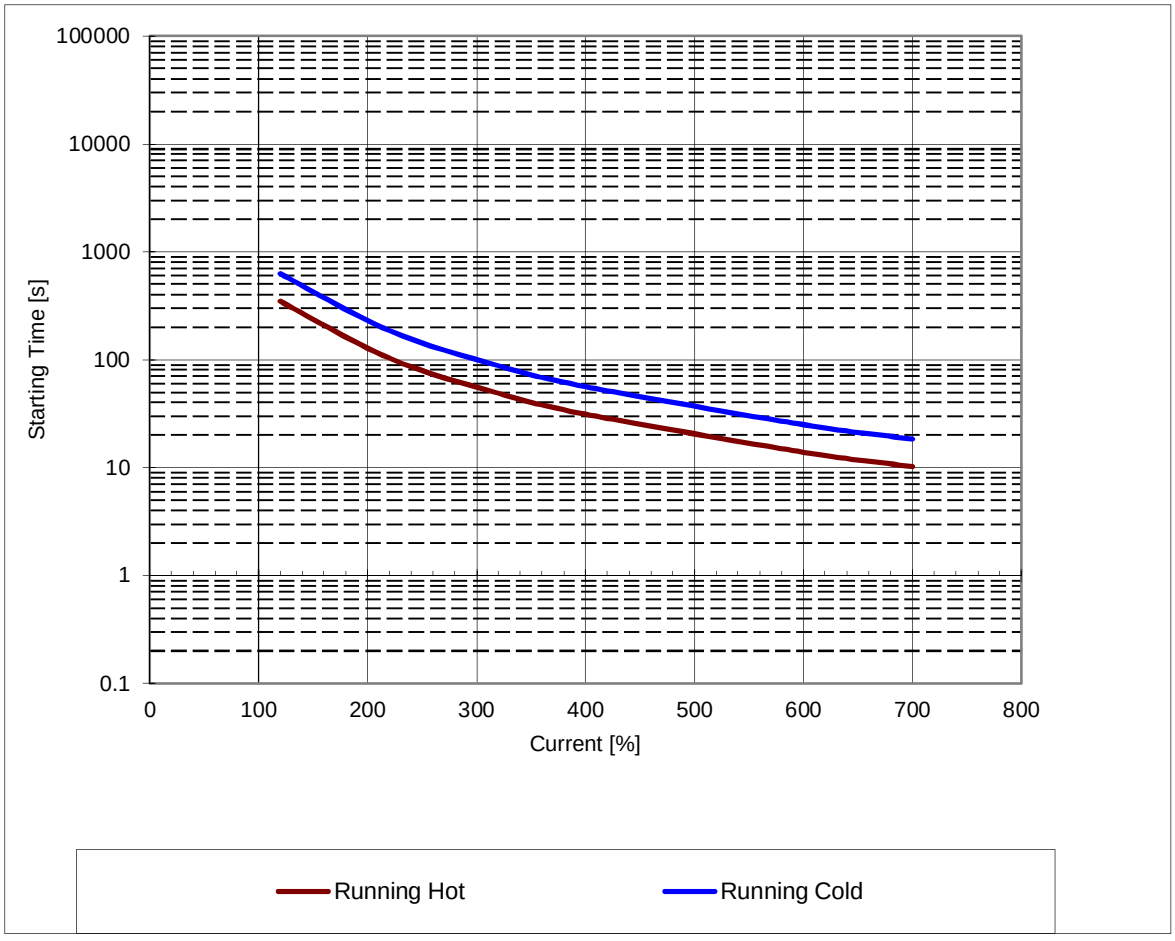
Data based on situation 4/10/2018

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 b Date of issue **A** **1/16/2019**	Saving ident **untitled.xls**	Pages **5(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M2BAX 160MLB 8**				
Product code	**3GBA 164 045-ADCIN**		Frequency (Hz)	**50**	
Rated output P_N	**5.5** kW		Rated current I_N	**13.8**	A
Type of duty	**S1 100%**				

J_{motor} (kgm2)	**0.094**	Voltage (V) 100%	***415***	Voltage (V)	***415V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***1.5***	T_{start}/T_N	***1.5***
Speed (r/min)	**720**	Starting time (s)	***0.1***	Starting time (s)	
T_N (Nm)	**73**	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	***5***	I_s/I_n	***5***
		T_{max}/T_n	***2.3***	T_{max}/T_n	***2.3***



Data based on situation 4/10/2018

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