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 **1/18/2019**	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 081 330-ASDIN***		Calc. ref.	3GZH021008-2
3	Type/Frame	***M2BAX 80MC 2***			
4	Mounting	***IM1001, B3(foot)***			
5	Rated output P_N	***0.75***	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	***2870***	r/min		
11	Rated current I_N	***1.7***	A		
12					
13	Starting current I_s/I_N	***6.5***			
14	Nominal torque T_N	***2.5***	Nm		
15	Locked rotor torque T_S/T_N	***2.8***			
16	Maximum torque T_{max}/T_N	***3.6***			
17					
18					

	Load characteristics	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	*100*	**1.7**	**80.7 / IE3**	**0.76**
20		*75*	**1.46**	**80**	**0.67**
21		*50*	**1.26**	**76.7**	**0.54**
22					

23	Thermal withstand time hot	***6***	s		
24	Thermal withstand time cold	***10***	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)	***73***	dB(A)	at no-load	
32	Moment of inertia J = ¼ GD2	***0.0008***	kg-m2		
33	Position of terminal box	***Top***			
34	Direction of rotation	***Bi-directional***			
35	Weight of rotor	***2***	kg		
36	Total weight of motor	***14***	kg		
37					
38					
39					
40					
41					
42					
43					
44					
45					
Ex-motors					
46					
47					
48					

Option Variant Codes / Definition

49	
50	
51	
52	

Remarks:

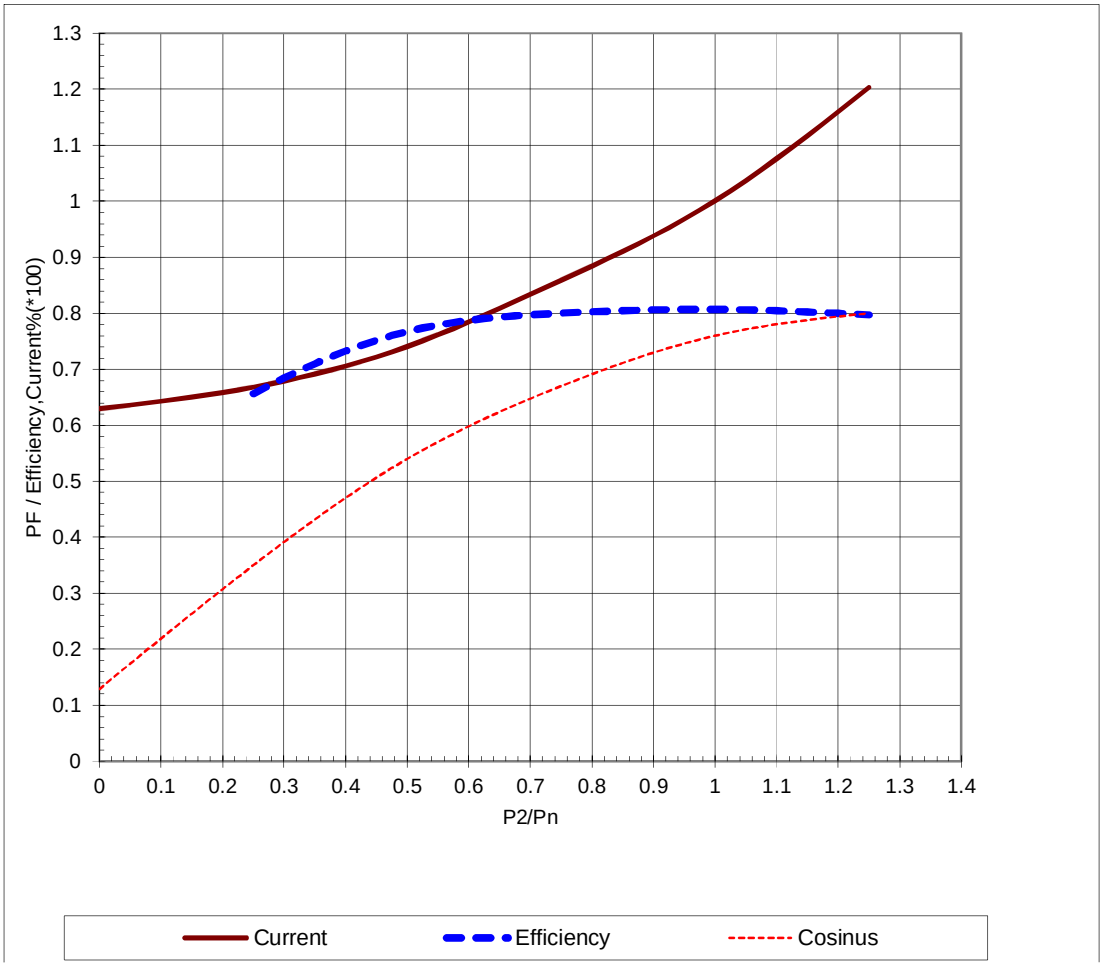
Data based on situation 12/21/2015

All performance values are subject to IS/IEC tolerances

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 **A** **1/18/2019**	Saving ident **untitled.xls**	Pages **2(3)**

Product	**TEFC, 3-phase, squirrel cage induction motor**		
Type/Frame	**M2BAX 80MC 2**	Calc. ref.	**3GZH021008-2**
Product code	**3GBA 081 330-ASDIN**		
Rated output P_N	**0.75** kW		
Type of duty	**S1 100%**		

Voltage (V)	**415**	Current I_N (A)	**1.7**	Power factor at P_N	**0.76**
Frequency (Hz)	**50**	Speed (r/min)	**2870**	Efficiency (%) at P_N	**80.7**



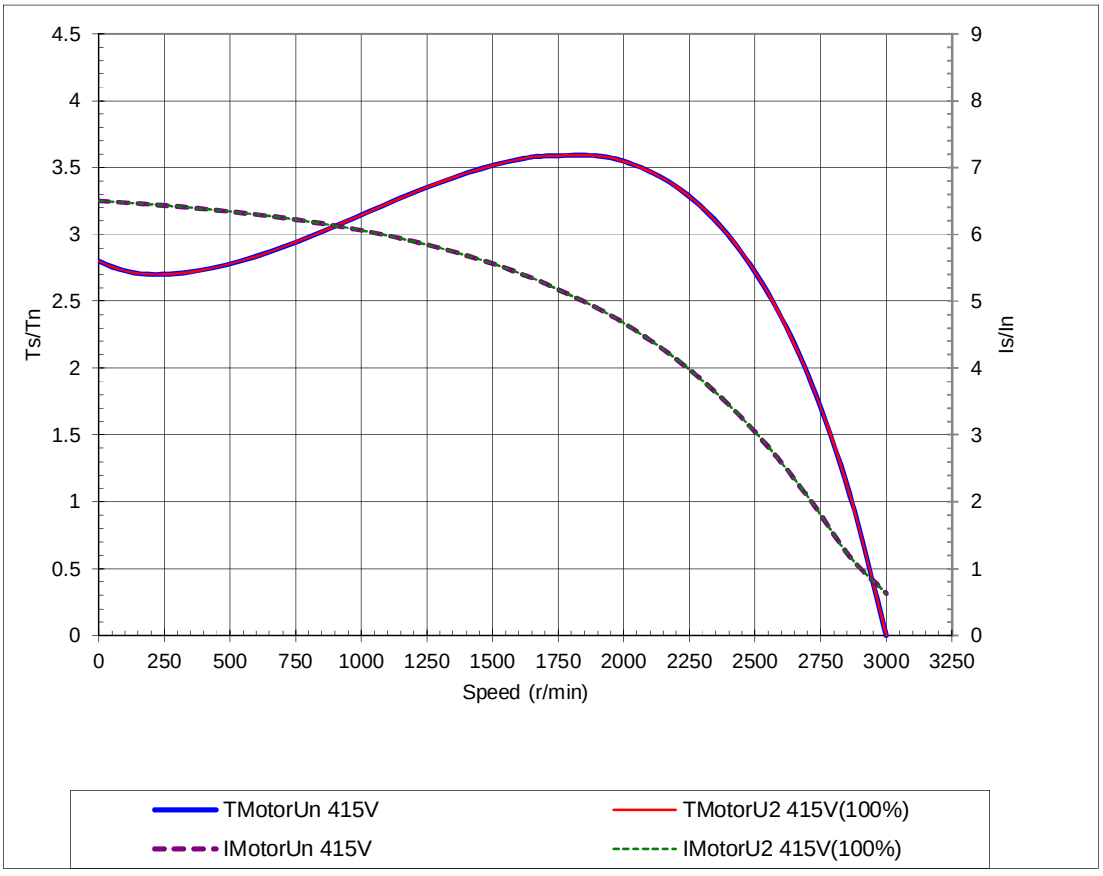
Data based on situation 12/21/2015

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** **1/18/2019**	Saving ident **untitled.xls**	Pages **3(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M2BAX 80MC 2**		Calc. ref.	3GZH021008-2	
Product code	**3GBA 081 330-ASDIN**		Frequency (Hz)	**50**	
Rated output P_N	**0.75** kW		Rated current I_N	**1.7**	A
Type of duty	**S1 100%**				

J_{motor} (kgm2)	**0.0008**	Voltage (V) 100%	***415***	Voltage (V)	***415V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***2.8***	T_{start}/T_N	***2.8***
Speed (r/min)	**2870**	Starting time (s)		Starting time (s)	
T_N (Nm)	**2.5**	Speed (r/min)		Speed (r/min)	***939***
T_{load} (Nm)		I_s/I_n	***6.5***	I_s/I_n	***6.5***
		T_{max}/T_n	***3.6***	T_{max}/T_n	***3.6***



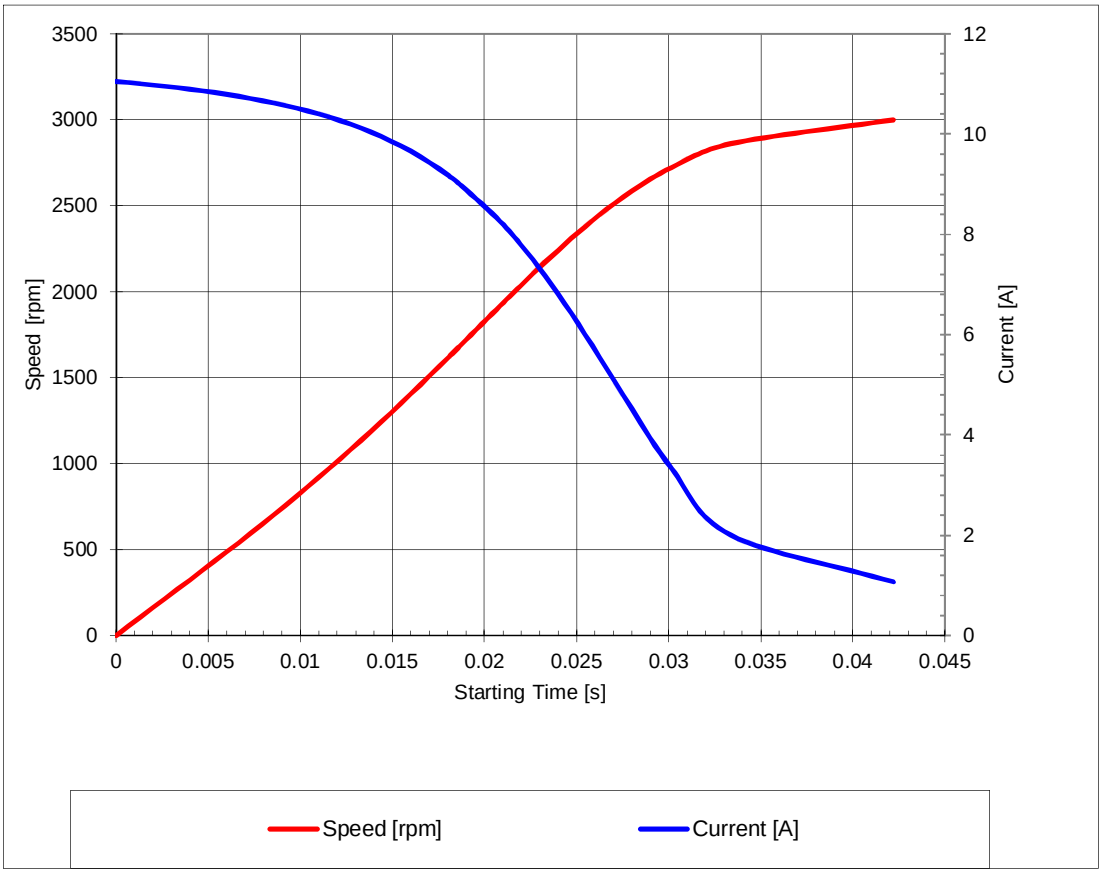
Data based on situation 12/21/2015

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** **1/18/2019**	Saving ident **untitled.xls**	Pages **4(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**			
Type/Frame	**M2BAX 80MC 2**	Calc. ref.	3GZH021008-2	
Product code	**3GBA 081 330-ASDIN**	Frequency (Hz)	**50**	
Rated output P_N	**0.75** kW	Rated current I_N	**1.7**	A
Type of duty	**S1 100%**			

J_{motor} (kgm2)	**0.0008**	Voltage (V) 100%	***415***	Voltage (V)	***415V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***2.8***	T_{start}/T_N	***2.8***
Speed (r/min)	**2870**	Starting time (s)		Starting time (s)	
T_N (Nm)	**2.5**	Speed (r/min)		Speed (r/min)	***939***
T_{load} (Nm)		I_s/I_n	***6.5***	I_s/I_n	***6.5***
		T_{max}/T_n	***3.6***	T_{max}/T_n	***3.6***



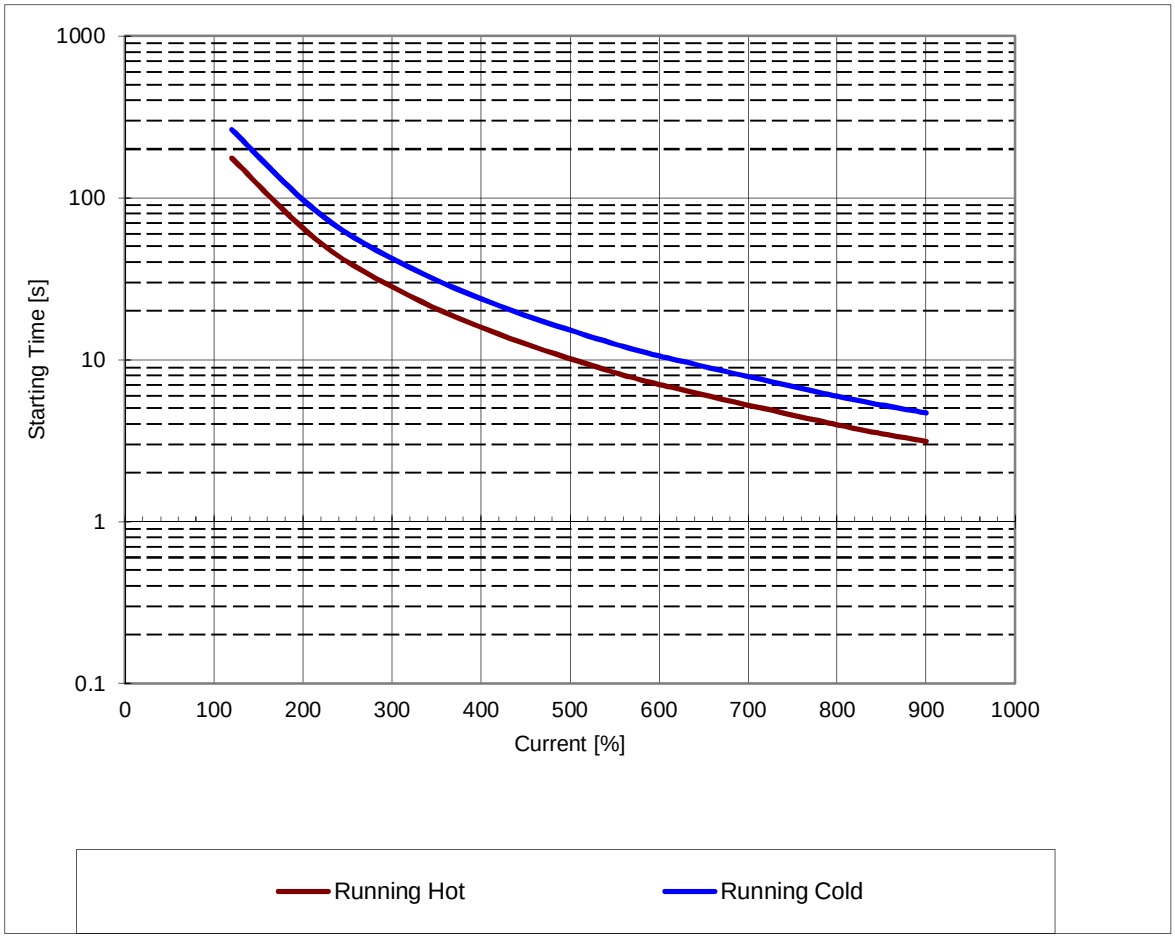
Data based on situation 12/21/2015

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 b Date of issue **A** **1/18/2019**	Saving ident **untitled.xls**	Pages **5(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**			
Type/Frame	**M2BAX 80MC 2**	Calc. ref.	3GZH021008-2	
Product code	**3GBA 081 330-ASDIN**	Frequency (Hz)	**50**	
Rated output P_N	**0.75** kW	Rated current I_N	**1.7**	A
Type of duty	**S1 100%**			

J_{motor} (kgm2)	**0.0008**	Voltage (V) 100%	***415***	Voltage (V)	***415V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***2.8***	T_{start}/T_N	***2.8***
Speed (r/min)	**2870**	Starting time (s)		Starting time (s)	
T_N (Nm)	**2.5**	Speed (r/min)		Speed (r/min)	***939***
T_{load} (Nm)		I_s/I_n	***6.5***	I_s/I_n	***6.5***
		T_{max}/T_n	***3.6***	T_{max}/T_n	***3.6***



Data based on situation 12/21/2015

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