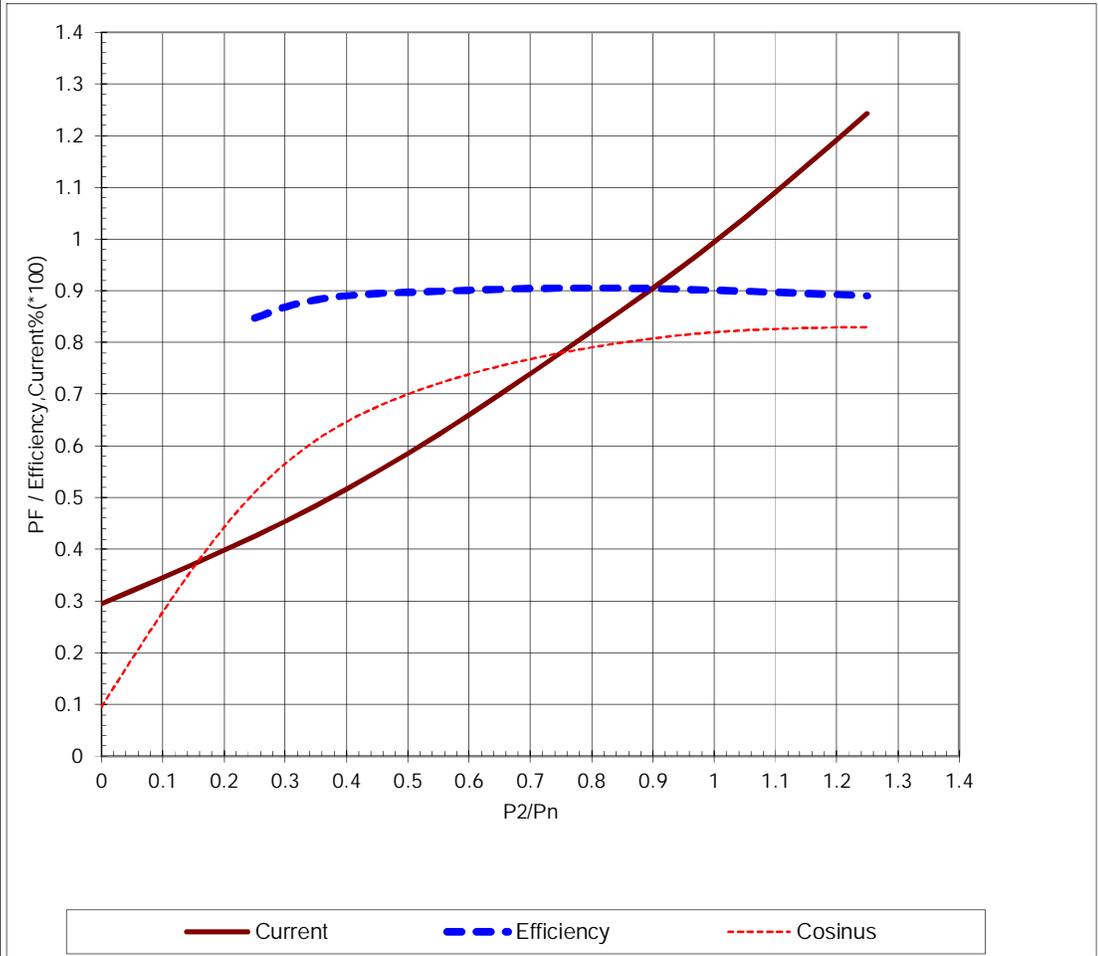


ABB Motors and Generators		Technical Data Sheet				
Department/Author		Project	Location		Item name	
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages	
		A	1/18/2019	untitled.xls	1.00001 1(3)	
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 131 220-ADDIN				
3	Type/Frame	M2BAX 132SMB 2				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	7.5	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	2905	r/min			
11	Rated current I _N	14.2	A			
12						
13	Starting current I _s /I _N	6.5				
14	Nominal torque T _N	24.7	Nm			
15	Locked rotor torque T _S /T _N	2.2				
16	Maximum torque T _{max} /T _N	3.5				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	14.2	90.1 / IE3	0.82	
20		75	11.1	90.5	0.78	
21		50	8.3	89.7	0.7	
22						
23	Thermal withstand time hot	8	s			
24	Thermal withstand time cold	15	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	6208-2Z/C3 - 6208-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	76	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD ²	0.01821	kg·m ²			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Total weight of motor	74	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:						
12/21/2015 8:52:00 AM						

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 132SMB 2
Product code 3GBA 131 220-ADDIN
Rated output P_N 7.5 kW
Type of duty S1 100%

Voltage (V) 415 **Current I_N (A)** 14.2 **Power factor at P_N** 0.82
Frequency (Hz) 50 **Speed (r/min)** 2905 **Efficiency (%) at P_N** 90.1

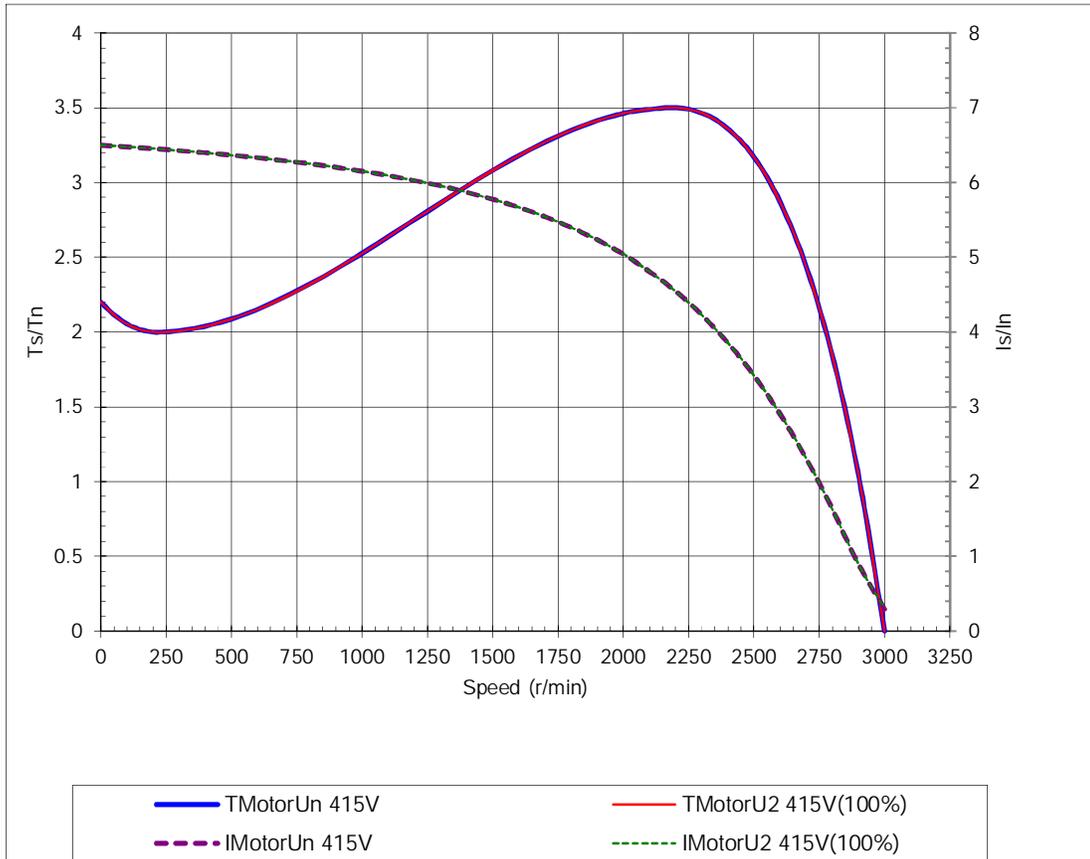


Data based on situation 12/21/2015
 All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004

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 132SMB 2		
Product code	3GBA 131 220-ADDIN	Frequency (Hz)	50
Rated output P _N	7.5 kW	Rated current I _N	14.2 A
Type of duty	S1 100%		

J _{motor} (kgm ²)	0.0182	Voltage (V) 100%	415	Voltage (V)	415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.2	T _{start} /T _N	2.2
Speed (r/min)	2905	Starting time (s)	0.1	Starting time (s)	
T _N (Nm)	24.7	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _N	6.5	I _s /I _N	6.5
		T _{max} /T _N	3.5	T _{max} /T _N	3.5



Data based on situation 12/21/2015

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

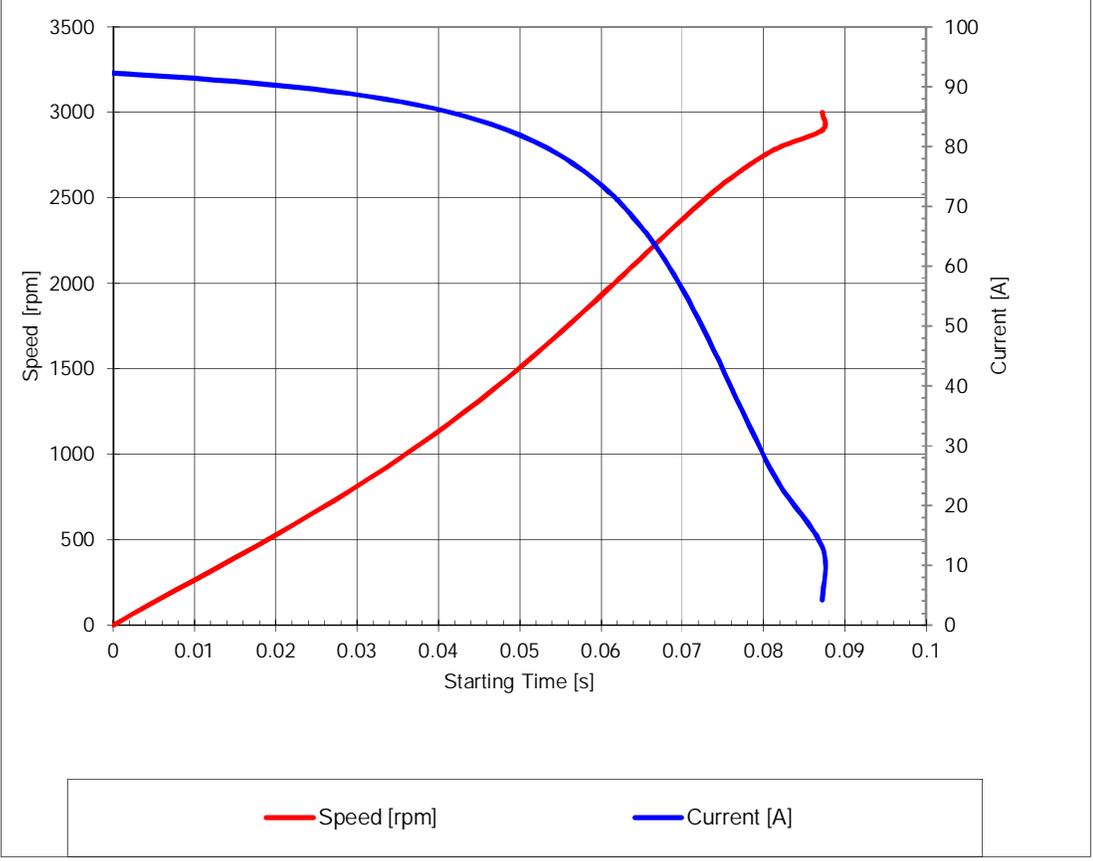
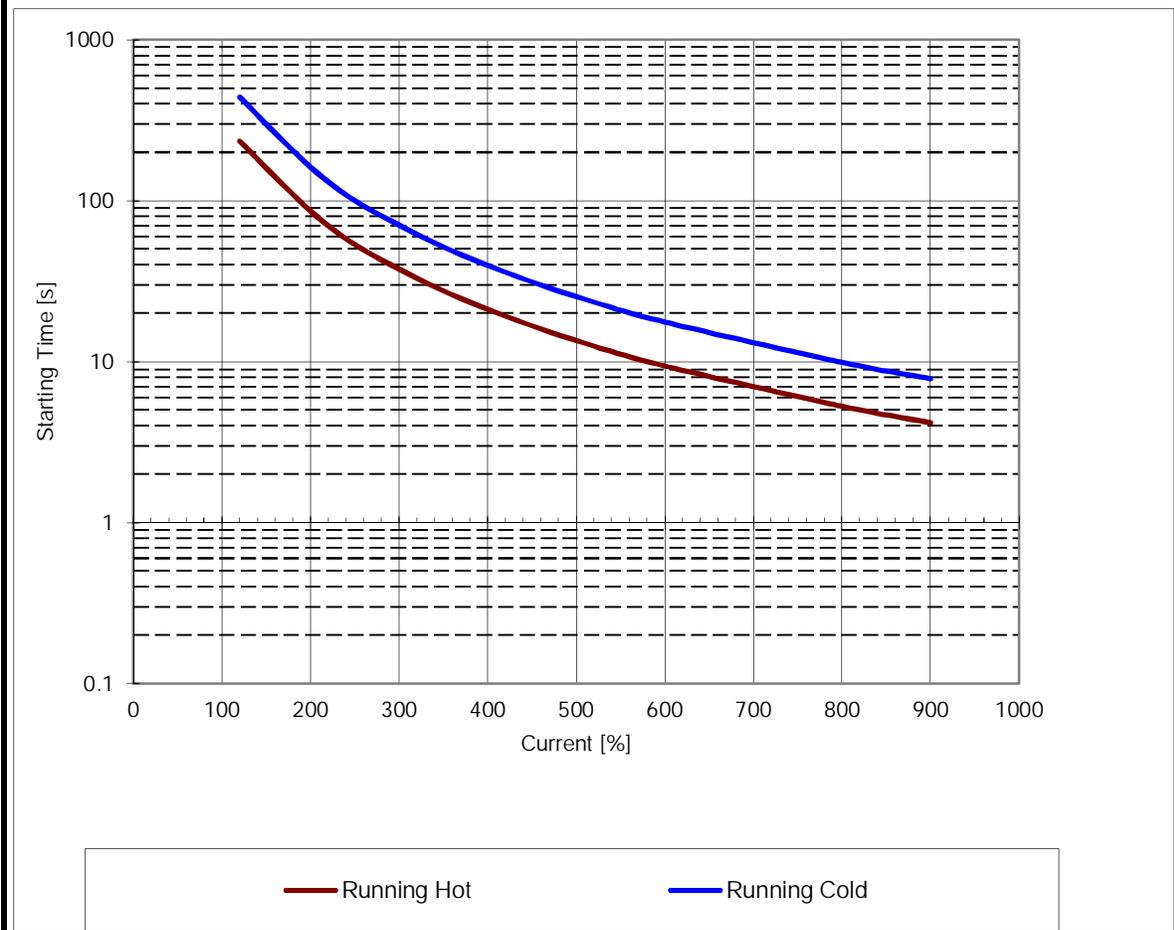
ABB Motors and Generators	Current & Speed Vs Time				
	Project	Location			
Department/Author	Customer name	Customer ref.		Item name 1.00001	
Our ref.	Rev/Changed b	Date of issue	Saving ident	Pages	
	A	1/18/2019	untitled.xls	4(3)	
Type of product	TEFC, 3-phase, squirrel cage induction motor				
Type/Frame	M2BAX 132SMB 2				
Product code	3GBA 131 220-ADDIN		Frequency (Hz)	50	
Rated output P _N	7.5	kW	Rated current I _N	14.2	A
Type of duty	S1 100%				
J _{motor} (kgm ²)	0.0182	Voltage (V) 100%	415	Voltage (V)	415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.2	T _{start} /T _N	2.2
Speed (r/min)	2905	Starting time (s)	0.1	Starting time (s)	
T _N (Nm)	24.7	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _N	6.5	I _s /I _N	6.5
		T _{max} /T _N	3.5	T _{max} /T _N	3.5
 <p>Speed [rpm] vs Starting Time [s] and Current [A]</p>					
<p>Data based on situation 12/21/2015</p> <p>All data subject to tolerances in accordance with IS/IEC 60034-1 : 2004</p>					

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 132SMB 2			
Product code	3GBA 131 220-ADDIN	Frequency (Hz)	50	
Rated output P _N	7.5 kW	Rated current I _N	14.2	A
Type of duty	S1 100%			

J _{motor} (kgm ²)	0.0182	Voltage (V) 100%	415	Voltage (V)	415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.2	T _{start} /T _N	2.2
Speed (r/min)	2905	Starting time (s)	0.1	Starting time (s)	
T _N (Nm)	24.7	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _N	6.5	I _s /I _N	6.5
		T _{max} /T _N	3.5	T _{max} /T _N	3.5



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