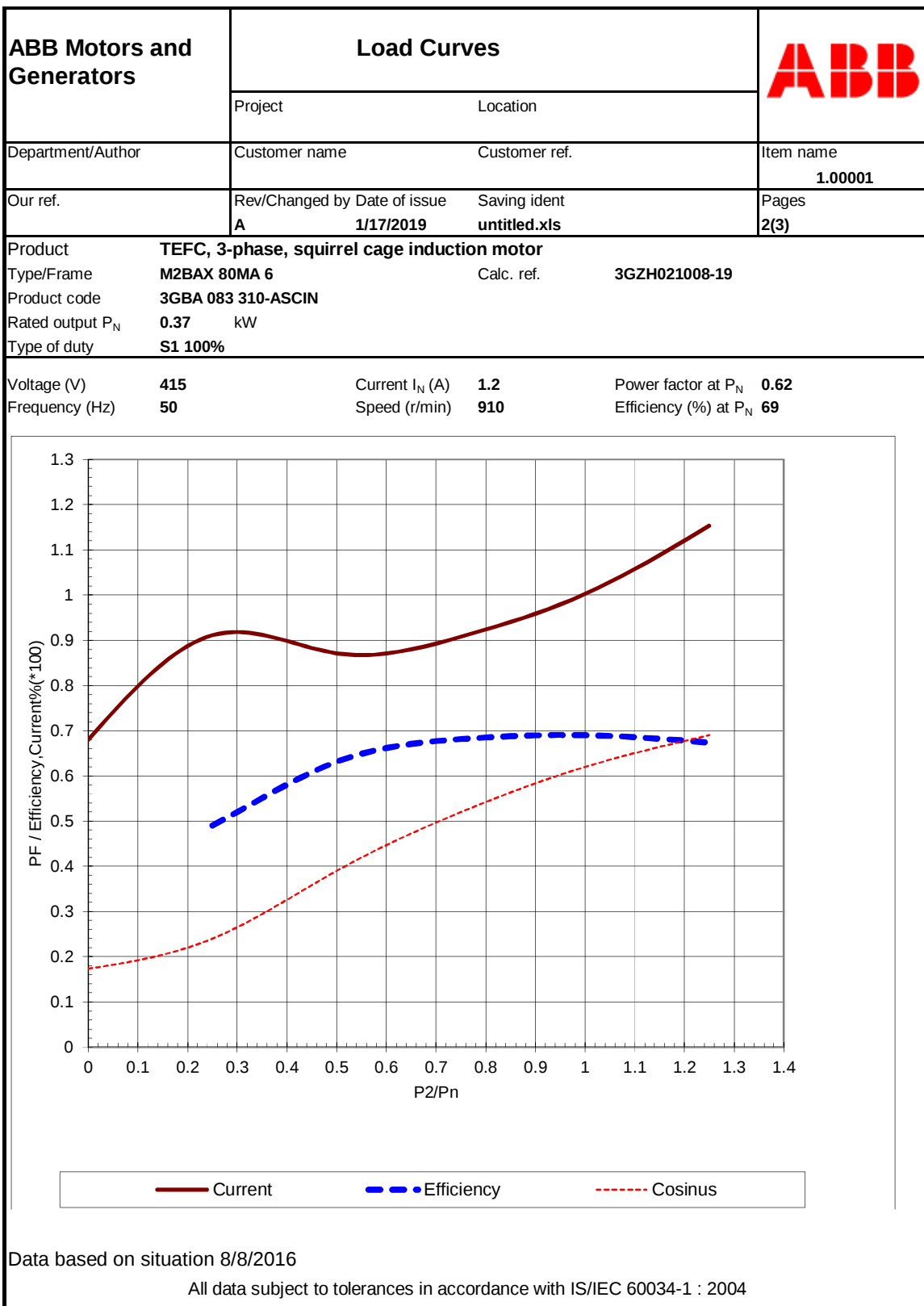


ABB Motors and Generators		Technical Data Sheet				
		Project	Location			
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 1/17/2019		
		Saving ident untitled.xls		Item name 1.00001		
				Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 083 310-ASCIN		Calc. ref.	3GZH021008-19	
3	Type/Frame	M2BAX 80MA 6				
4	Mounting	IM1001, B3(foot)				
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	910	r/min			
11	Rated current I_N	1.2	A			
12						
13	Starting current I_s/I_N	4				
14	Nominal torque T_N	3.9	Nm			
15	Locked rotor torque T_s/T_N	2				
16	Maximum torque T_{max}/T_N	2.4				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	1.2	69.0 / IE2	0.62	
20		75	1.09	68.1	0.52	
21		50	1.05	63.1	0.39	
22						
23	Thermal withstand time hot	11	s			
24	Thermal withstand time cold	26	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)	55	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.00173	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	3	kg			
36	Total weight of motor	13	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 8/8/2016						

All performance values are subject to IS/IEC tolerances



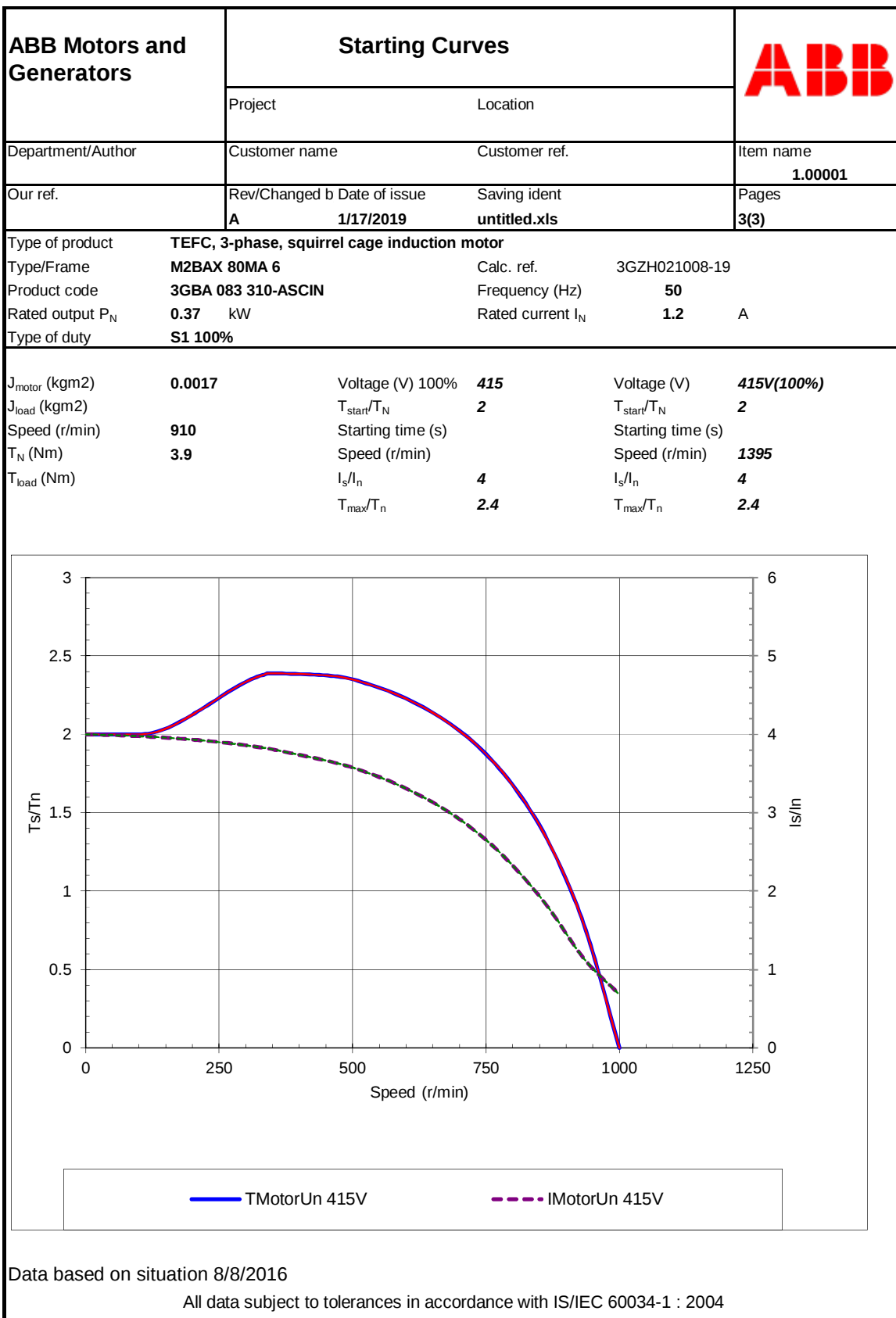
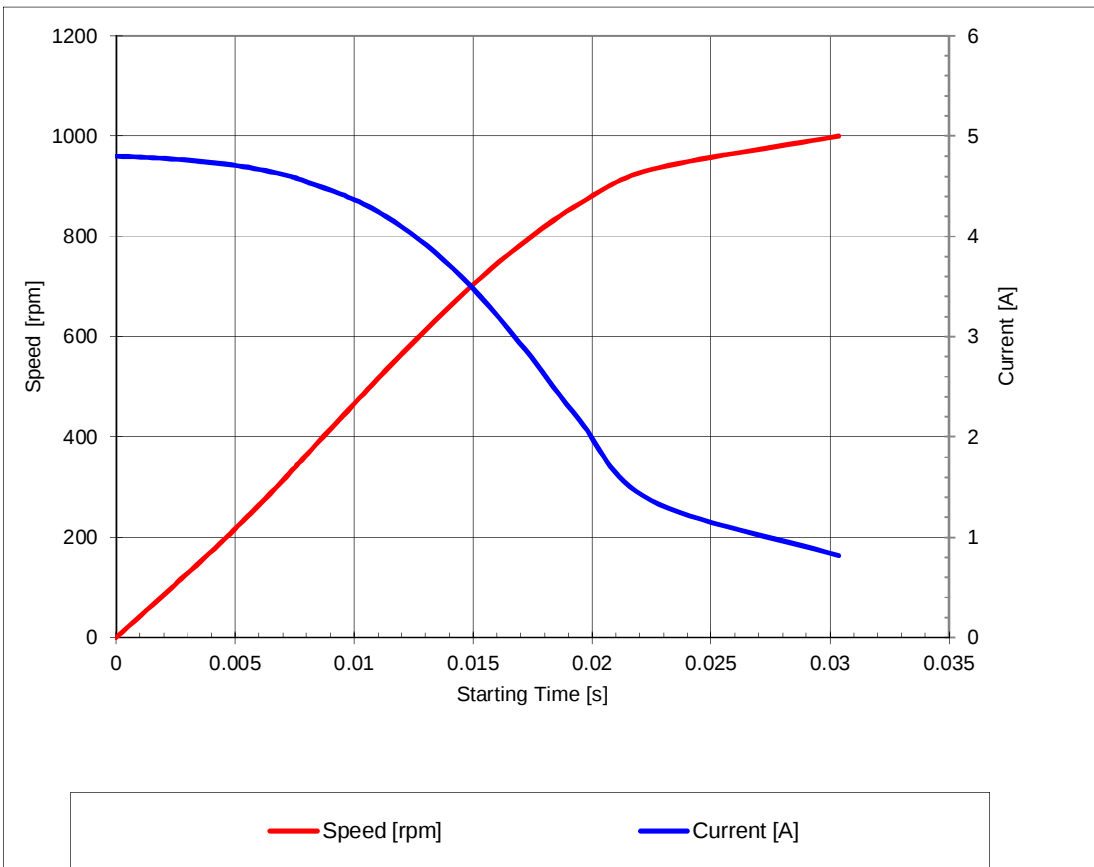


ABB Motors and Generators	Current & Speed Vs Time			
	Project		Location	
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/17/2019	Saving ident untitled.xls		Pages 4(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 80MA 6	Calc. ref.	3GZH021008-19	
Product code	3GBA 083 310-ASCIN	Frequency (Hz)	50	
Rated output P _N	0.37 kW	Rated current I _N	1.2	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.0017	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2	T _{start} /T _N 2
Speed (r/min)	910	Starting time (s)		Starting time (s)
T _N (Nm)	3.9	Speed (r/min)		Speed (r/min) 1395
T _{load} (Nm)		I _s /I _n	4	I _s /I _n 4
		T _{max} /T _n	2.4	T _{max} /T _n 2.4



Speed [rpm] vs Starting Time [s] and Current [A] vs Starting Time [s]

Data based on situation 8/8/2016

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

