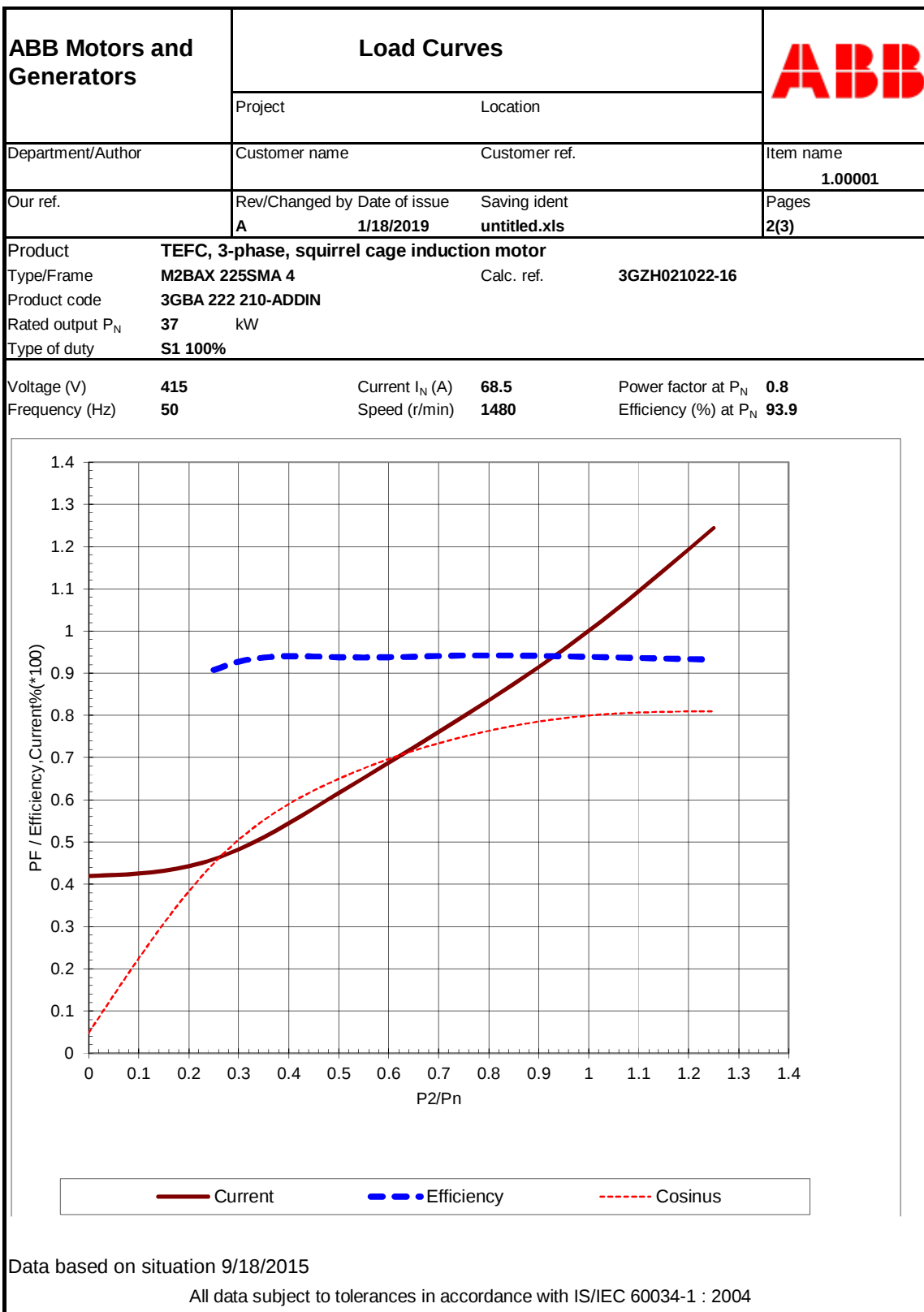


ABB Motors and Generators		Technical Data Sheet			
		Project	Location		
Department/Author		Customer name		Customer ref.	
Our ref.		Rev/Changed by A		Date of issue 1/18/2019	
		Saving ident untitled.xls		Item name 1.00001	
				Pages 1(3)	
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GBA 222 210-ADDIN		Calc. ref.	3GZH021022-16
3	Type/Frame	M2BAX 225SMA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	37	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	1480	r/min		
11	Rated current I _N	68.5	A		
12					
13	Starting current I _s /I _N	7.5			
14	Nominal torque T _N	239	Nm		
15	Locked rotor torque T _s /T _N	2.8			
16	Maximum torque T _{max} /T _N	3.2			
17					
18					
Load characteristics		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	68.5	93.9 / IE3	0.8
20		75	54.7	94.2	0.75
21		50	42.2	93.8	0.65
22					
23	Thermal withstand time hot	18	s		
24	Thermal withstand time cold	29	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	6313-2Z/C3 - 6210-2Z/C3			
31	Sound pressure level (LP dB(A) 1m)	69	dB(A)	at no-load	
32	Moment of inertia J = ¼ GD2	0.427	kg-m2		
33	Position of terminal box	Top			
34	Direction of rotation	Bi-directional			
35	Weight of rotor	78	kg		
36	Total weight of motor	274	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 9/18/2015					

All performance values are subject to IS/IEC tolerances



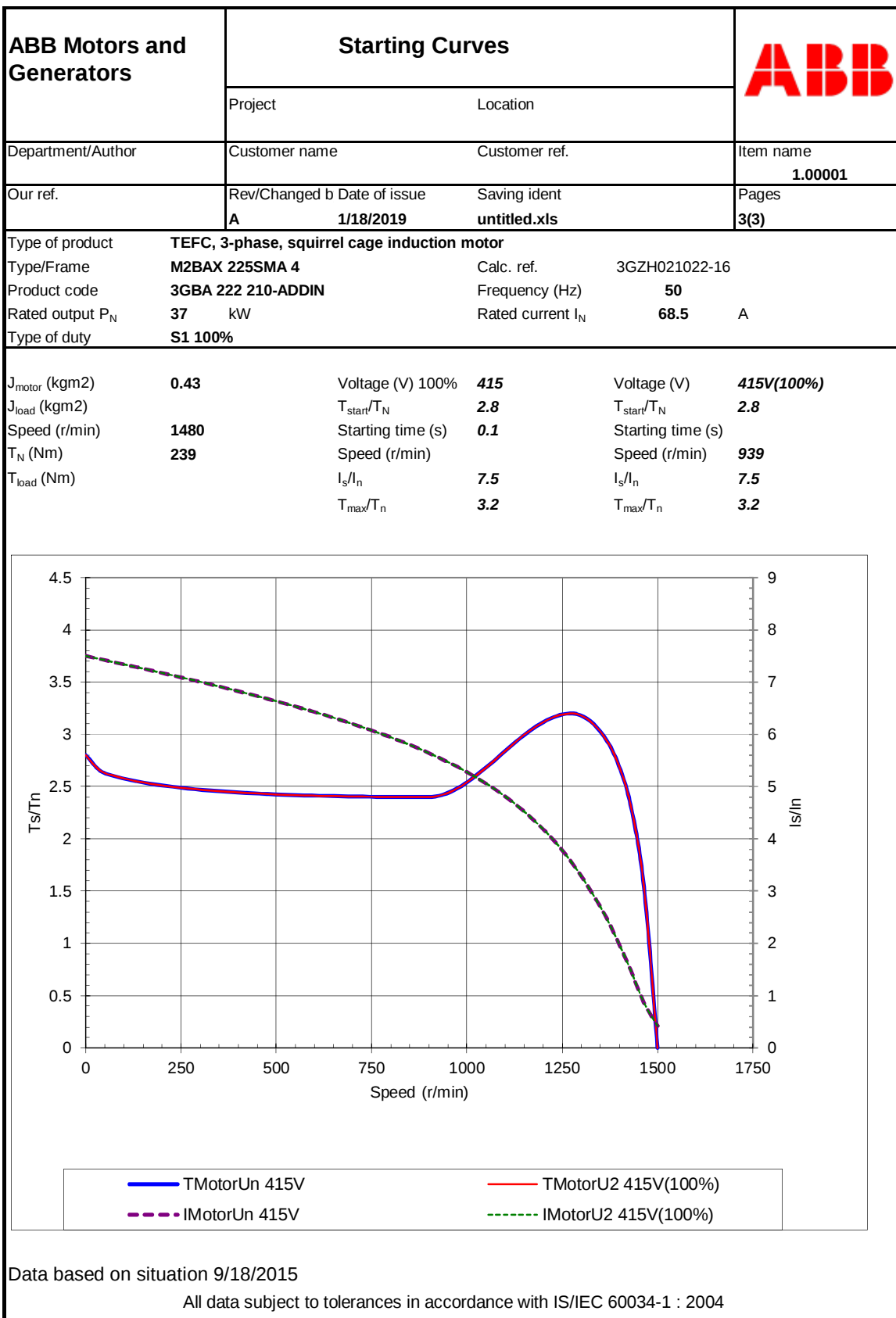
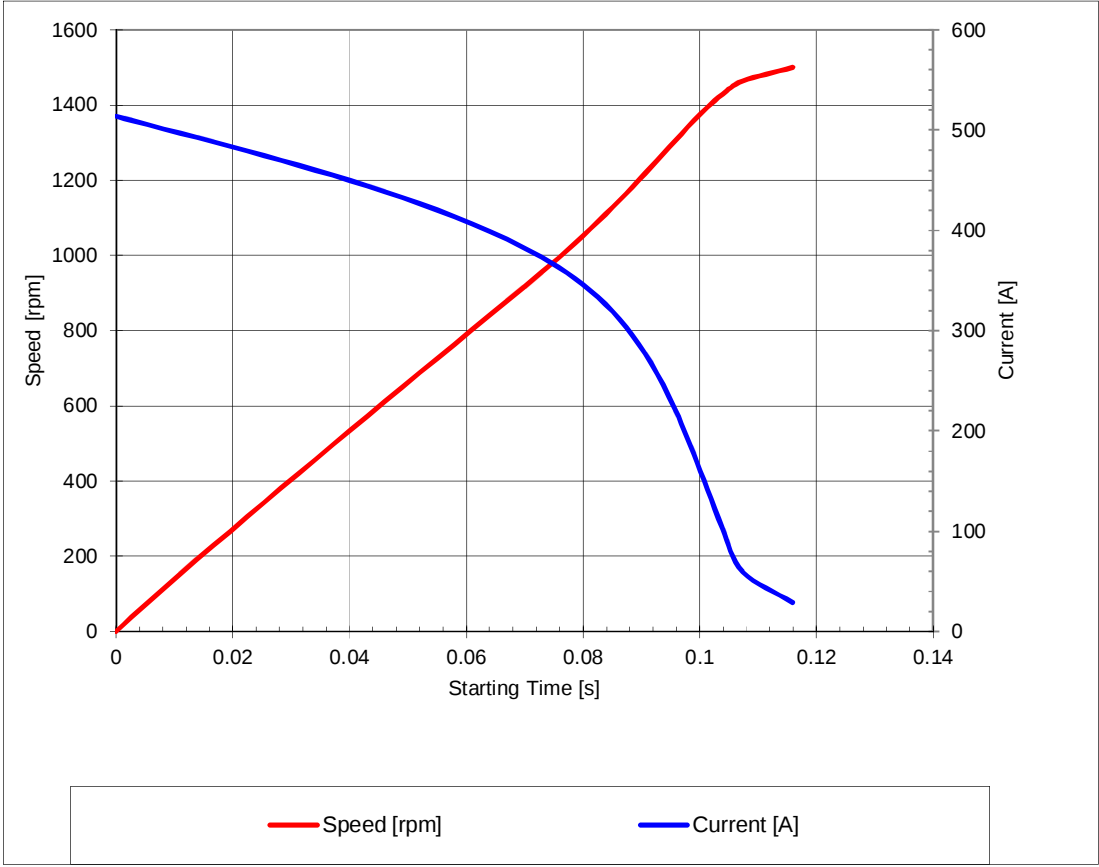


ABB Motors and Generators	Current & Speed Vs Time			
	Project		Location	
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/18/2019	Saving ident untitled.xls		Pages 4(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 225SMA 4	Calc. ref.	3GZH021022-16	
Product code	3GBA 222 210-ADDIN	Frequency (Hz)	50	
Rated output P _N	37 kW	Rated current I _N	68.5	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.43	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.8	T _{start} /T _N 2.8
Speed (r/min)	1480	Starting time (s)	0.1	Starting time (s)
T _N (Nm)	239	Speed (r/min)		Speed (r/min) 939
T _{load} (Nm)		I _s /I _N	7.5	I _s /I _N 7.5
		T _{max} /T _n	3.2	T _{max} /T _n 3.2



Speed [rpm]

Current [A]

Data based on situation 9/18/2015

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

