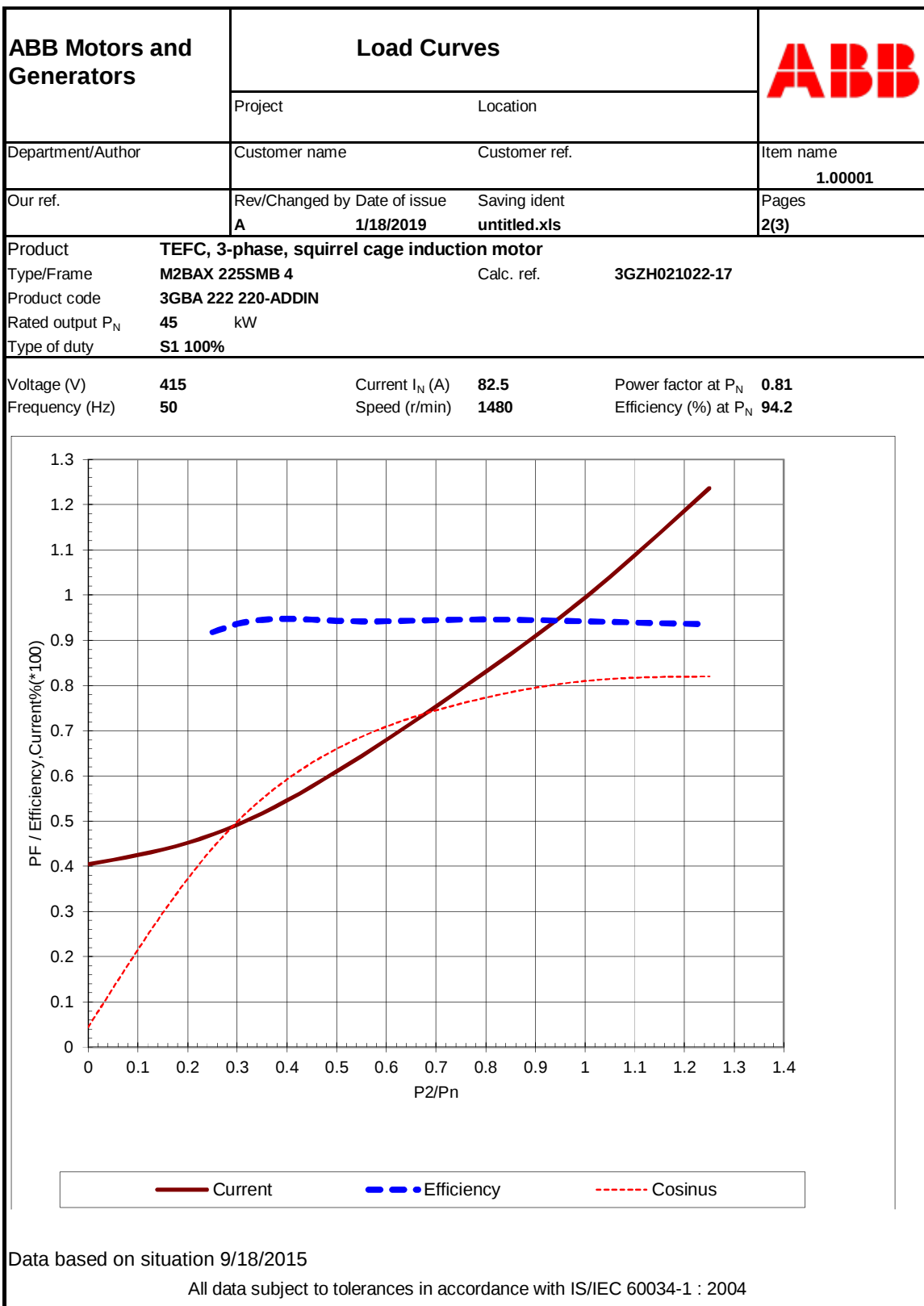


ABB Motors and Generators		Technical Data Sheet				
		Project	Location			
Department/Author		Customer name		Customer ref.		
Our ref.		Rev/Changed by A		Date of issue 1/18/2019		
		Saving ident untitled.xls		Item name 1.00001		
				Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 222 220-ADDIN		Calc. ref.	3GZH021022-17	
3	Type/Frame	M2BAX 225SMB 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	45	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	82.5	A			
12						
13	Starting current I _s /I _N	7.5				
14	Nominal torque T _N	290	Nm			
15	Locked rotor torque T _s /T _N	2.5				
16	Maximum torque T _{max} /T _N	3.1				
17						
18						
Load characteristics		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	82.5	94.2 / IE3	0.81	
20		75	65.3	94.6	0.76	
21		50	50.3	94.3	0.66	
22						
23	Thermal withstand time hot	19	s			
24	Thermal withstand time cold	31	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)	73	dB(A)	at no-load		
32	Moment of inertia J = ¼ GD2	0.525	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	92	kg			
36	Total weight of motor	307	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



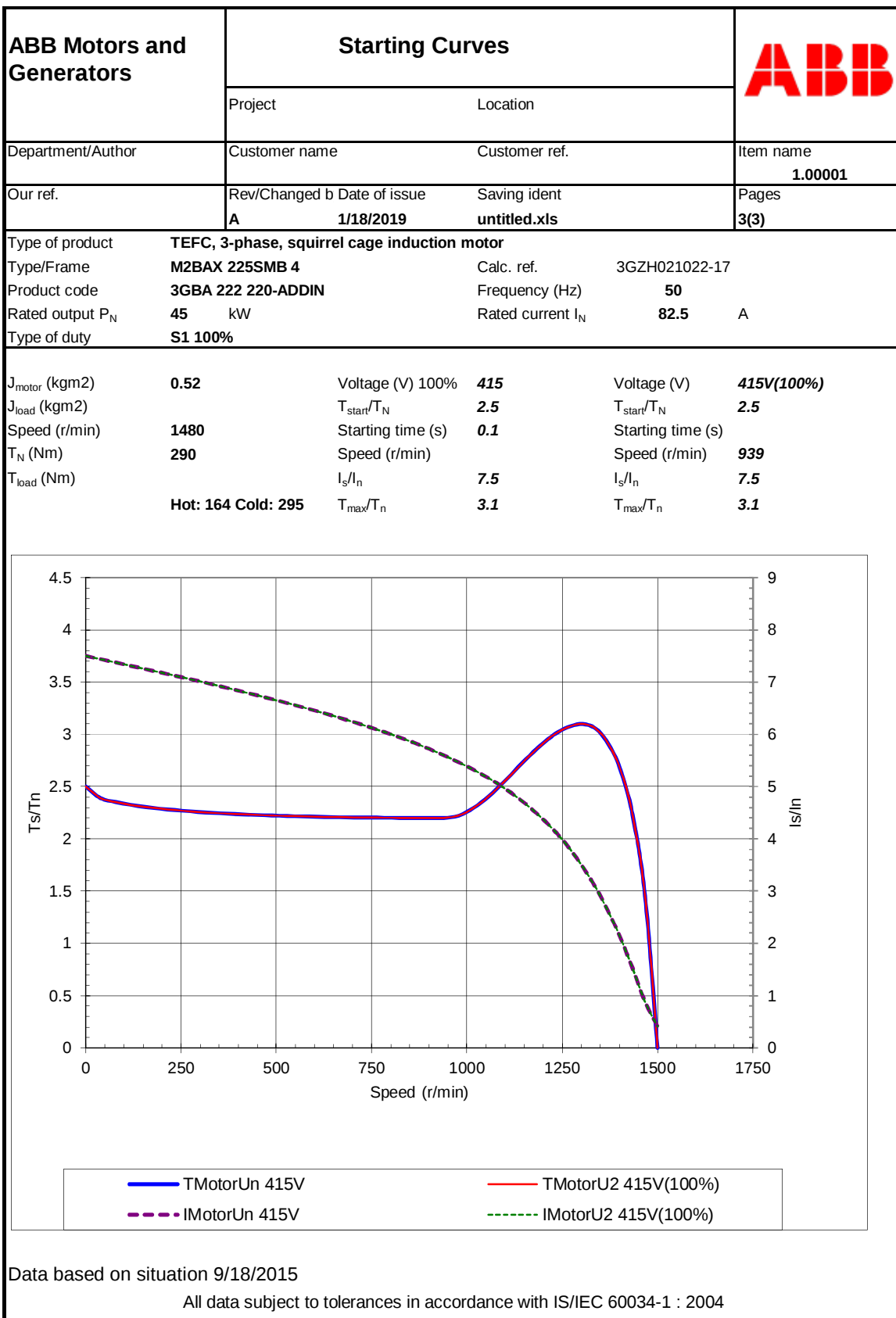
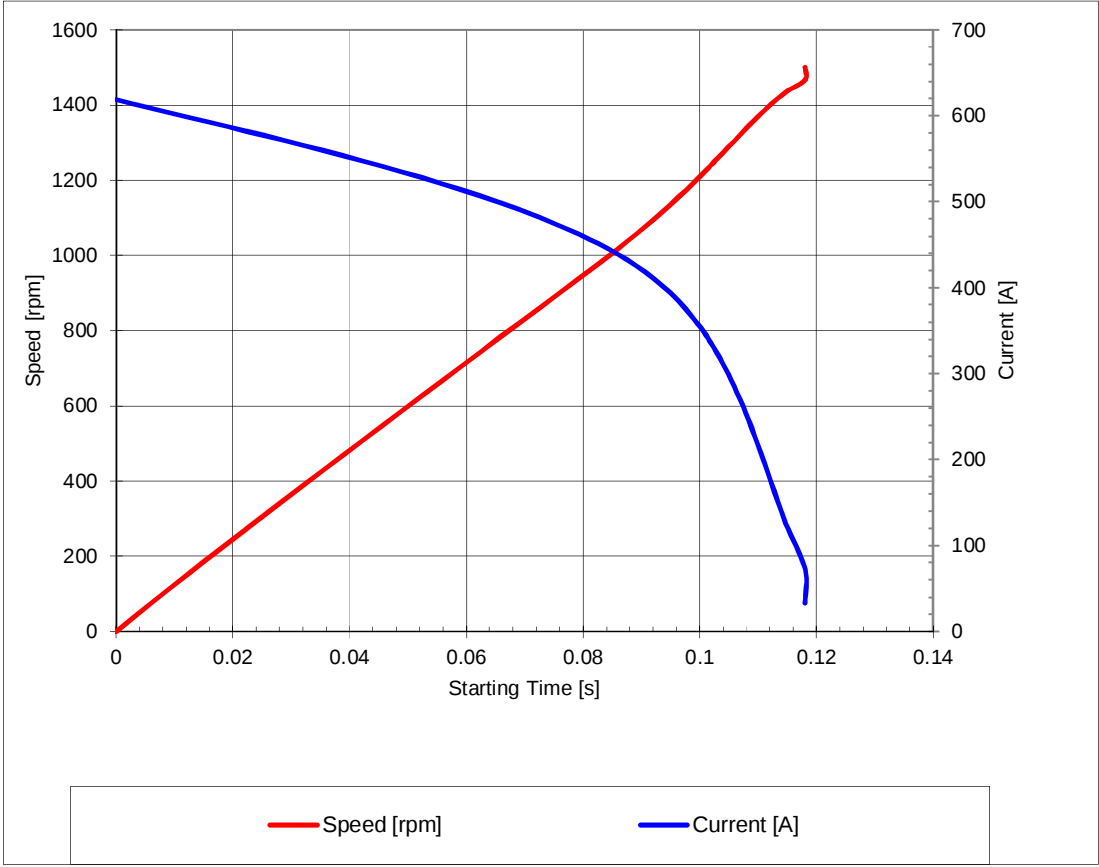


ABB Motors and Generators	Current & Speed Vs Time			
	Project		Location	
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/18/2019	Saving ident untitled.xls		Pages 4(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 225SMB 4	Calc. ref.	3GZH021022-17	
Product code	3GBA 222 220-ADDIN	Frequency (Hz)	50	
Rated output P _N	45 kW	Rated current I _N	82.5	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.52	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N 2.5
Speed (r/min)	1480	Starting time (s)	0.1	Starting time (s)
T _N (Nm)	290	Speed (r/min)		Speed (r/min) 939
T _{load} (Nm)		I _s /I _N	7.5	I _s /I _N 7.5
	Hot: 164 Cold: 295	T _{max} /T _n	3.1	T _{max} /T _n 3.1



Speed [rpm]

Current [A]

Data based on situation 9/18/2015

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

