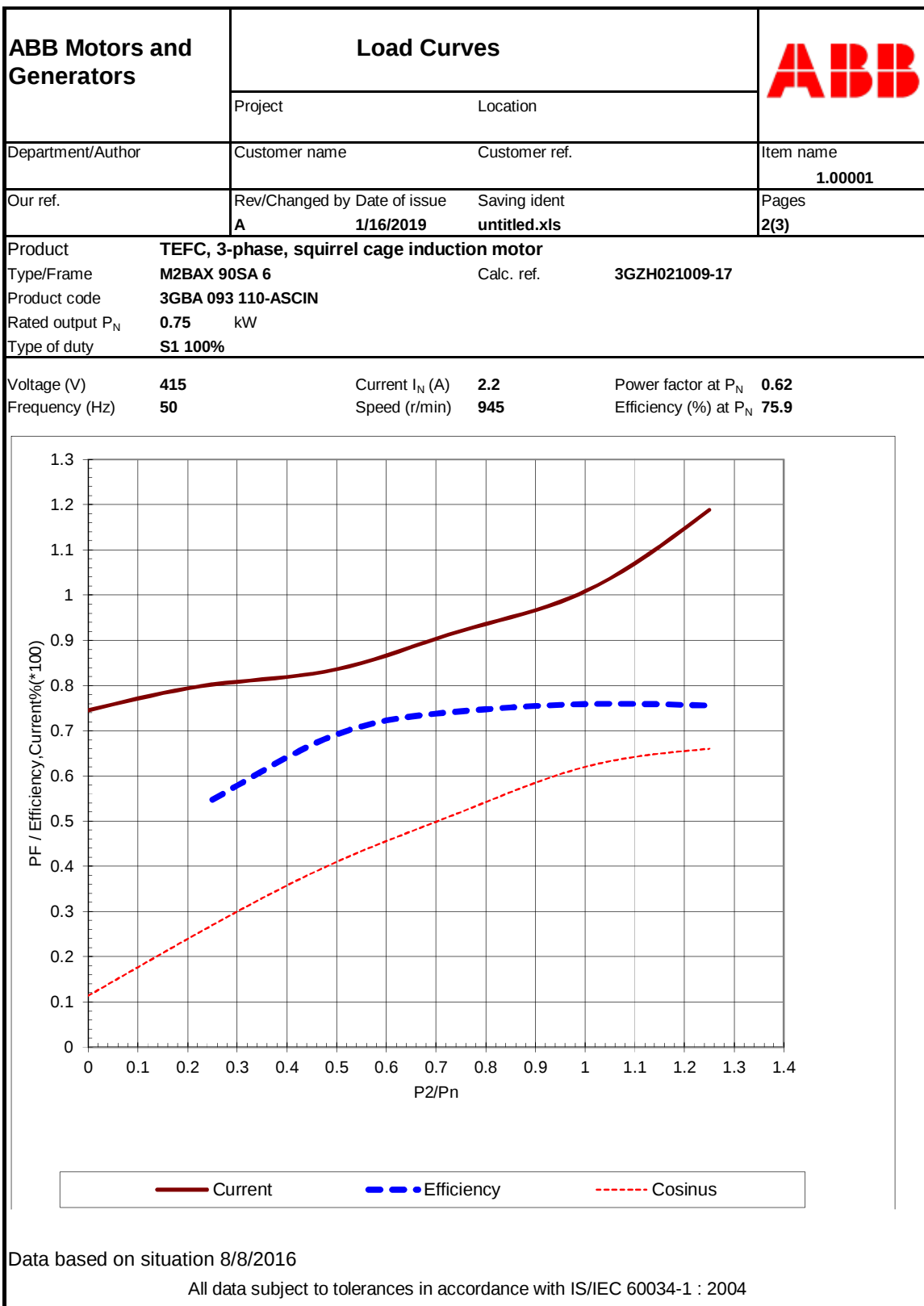


ABB Motors and Generators		Technical Data Sheet				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name 1.00001
Our ref.		Rev/Changed by A	Date of issue 1/16/2019	Saving ident untitled.xls		Pages 1(3)
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	3GBA 093 110-ASCIN		Calc. ref.	3GZH021009-17	
3	Type/Frame	M2BAX 90SA 6				
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	945	r/min			
11	Rated current I_N	2.2	A			
12						
13	Starting current I_s/I_N	4.5				
14	Nominal torque T_N	7.6	Nm			
15	Locked rotor torque T_s/T_N	2.4				
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	2.2	75.9 / IE2	0.62	
20		75	2	74.3	0.52	
21		50	1.84	69.2	0.41	
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	6205-2Z/C3 - 6204-2Z/C3				
31	Sound pressure level (LP dB(A) 1m)	61	dB(A)	at no-load		
32	Moment of inertia $J = \frac{1}{4} GD^2$	0.00438	kg-m2			
33	Position of terminal box	Top				
34	Direction of rotation	Bi-directional				
35	Weight of rotor	5	kg			
36	Total weight of motor	21	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



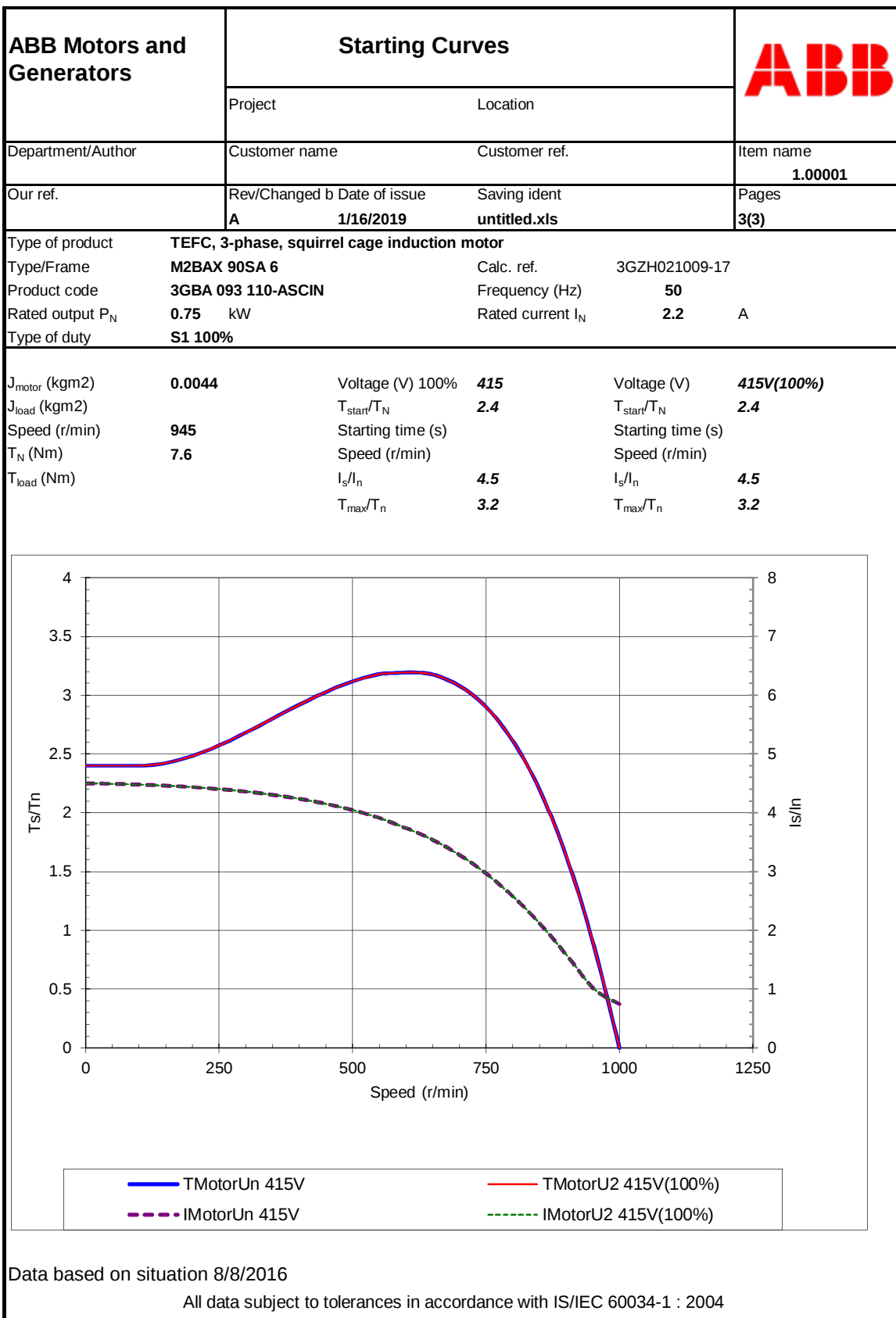
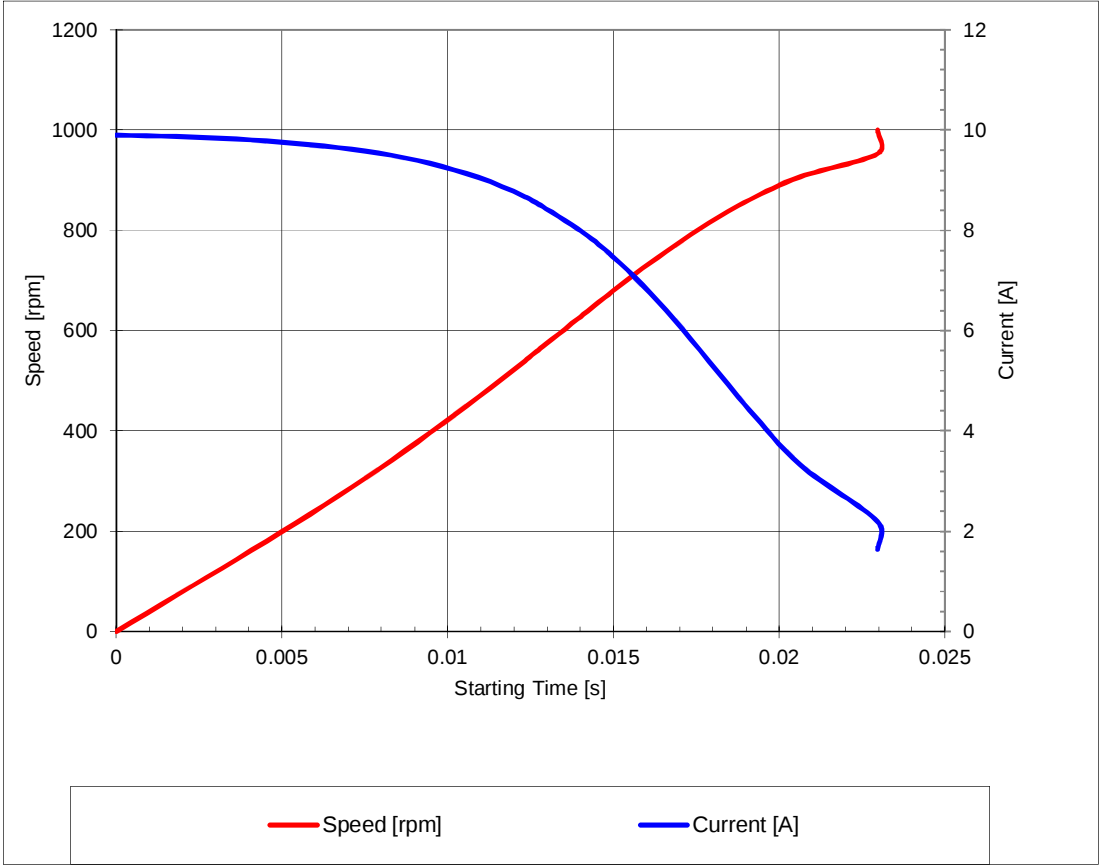


ABB Motors and Generators	Current & Speed Vs Time			
	Project		Location	
Department/Author	Customer name	Customer ref.		Item name 1.00001
Our ref.	Rev/Changed b Date of issue A 1/16/2019	Saving ident untitled.xls		Pages 4(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M2BAX 90SA 6	Calc. ref.	3GZH021009-17	
Product code	3GBA 093 110-ASCIN	Frequency (Hz)	50	
Rated output P _N	0.75 kW	Rated current I _N	2.2	A
Type of duty	S1 100%			
J _{motor} (kgm ²)	0.0044	Voltage (V) 100%	415	Voltage (V) 415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.4	T _{start} /T _N 2.4
Speed (r/min)	945	Starting time (s)		Starting time (s)
T _N (Nm)	7.6	Speed (r/min)		Speed (r/min)
T _{load} (Nm)		I _s /I _N	4.5	I _s /I _N 4.5
		T _{max} /T _N	3.2	T _{max} /T _N 3.2



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

Data based on situation 8/8/2016

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

