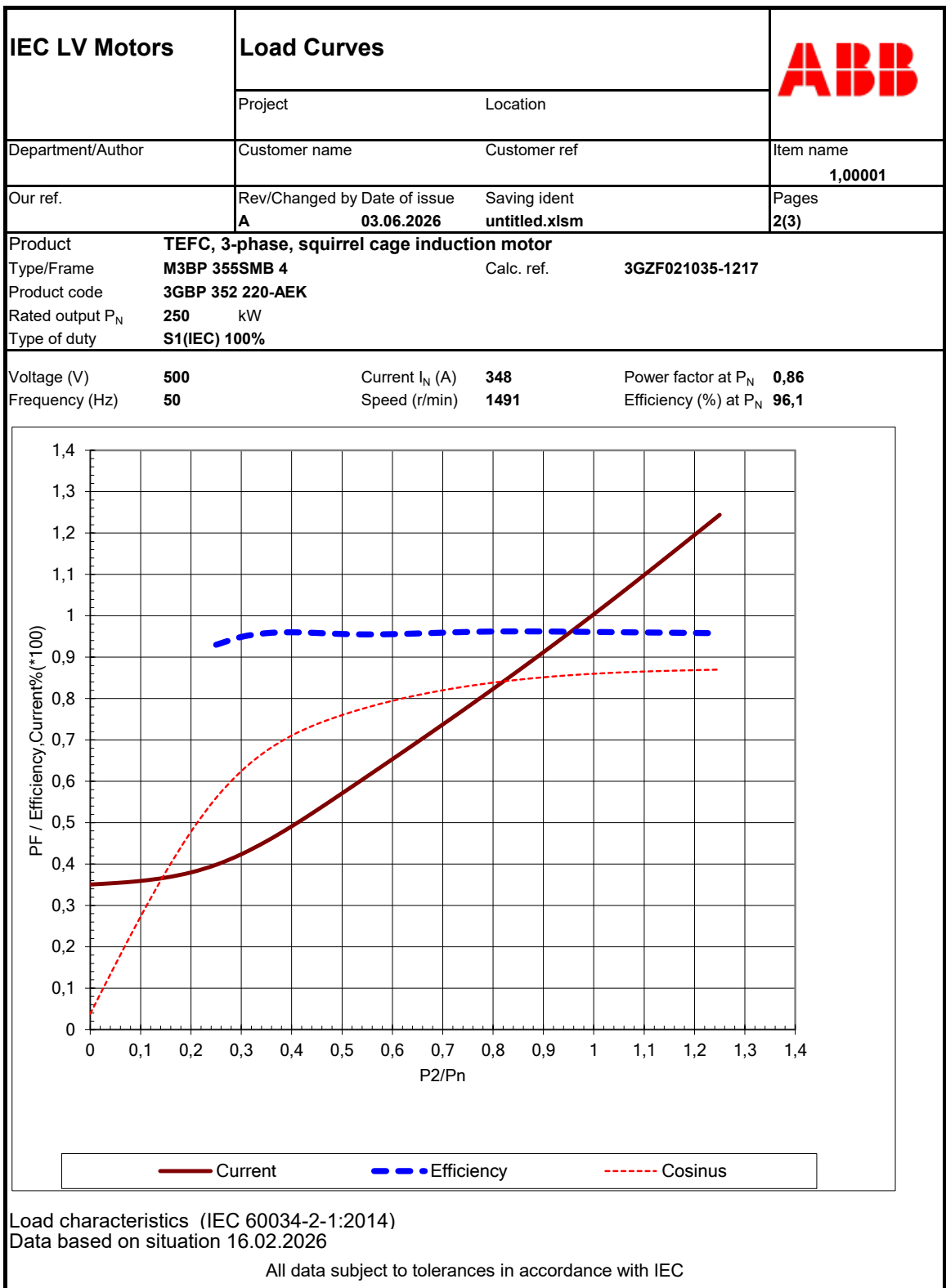
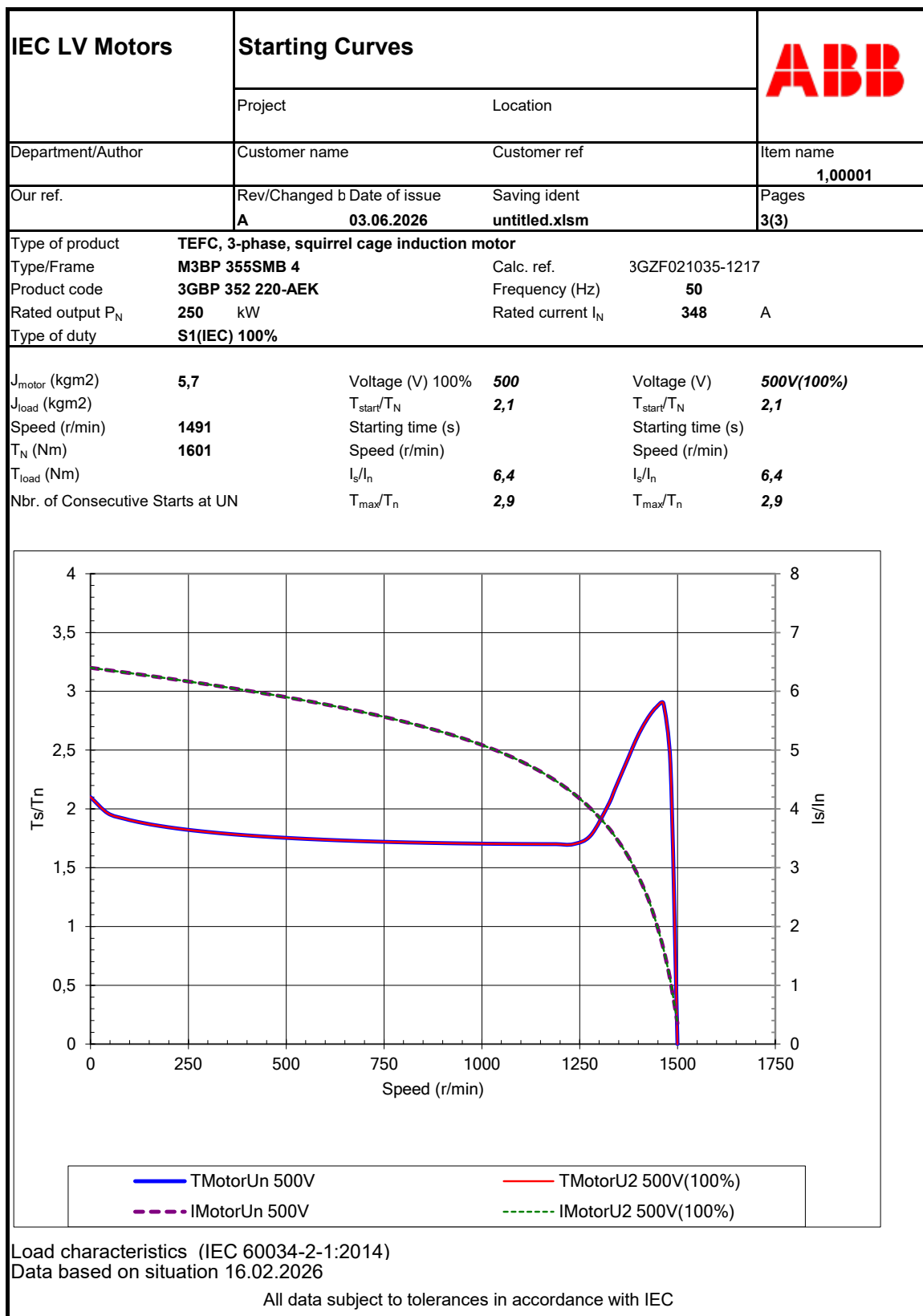
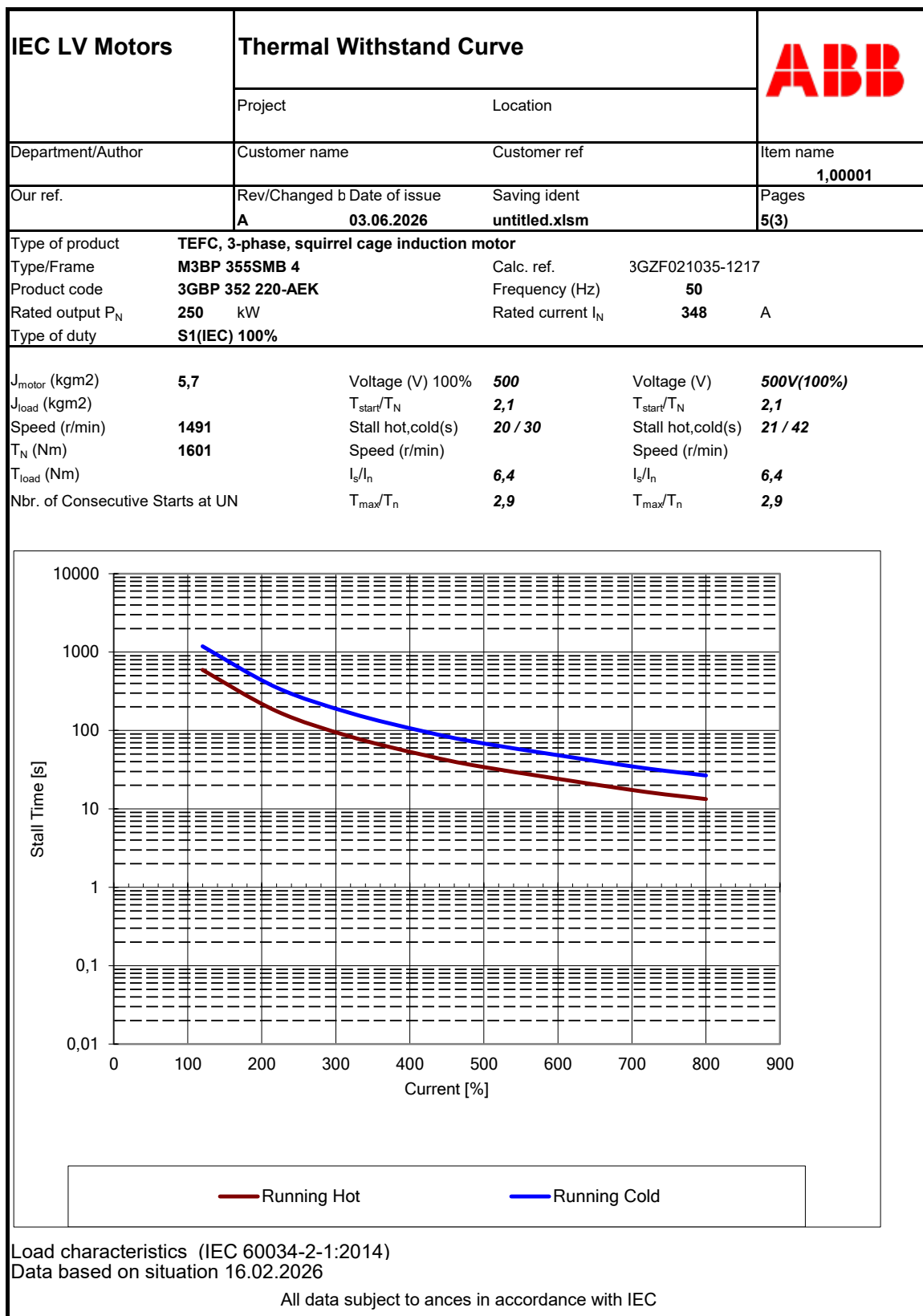
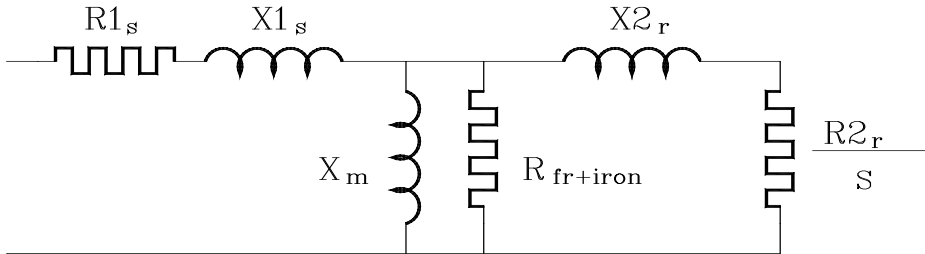


IEC LV Motors		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref	Item name 1,00001
Our ref.		Rev/Changed by A	Date of issue 03.06.2026	Saving ident untitled.xlsm	Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GBP 352 220-AEK		Calc. ref.	3GZF021035-1217
3	Type/Frame	M3BP 355SMB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	250	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	500	VD	+10, -10 % (IEC 60038)	
9	Rated frequency f _N	50	Hz	+2, -2 % (IEC 60038)	
10	Rated speed n _N	1491	r/min		
11	Rated current I _N	348	A		
12	No-load current	122	A		
13	Starting current I _s /I _N	6,4		Meet IEC 60034-12, N	
14	Nominal torque T _N	1601	Nm		
15	Locked rotor torque T _s /T _N	2,1			
16	Maximum torque T _{max} /T _N	2,9			
17	Minimum torque T _{min} /T _N	1,7			
18	Speed at minimum torque	1245	r/min		
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	348	96,1 / IE3	0,86
20		75	271	96,1	0,83
21		50	199	95,6	0,76
22		Start	2227		0,3
23	Maximum starting time from hot	32	s		
24	Maximum starting time from cold	57	s		
25	Insulation class / Temperature class	F / B			
26	Ambient temperature	40	°C		
27	Altitude	1000	m.a.s.l.		
28	Enclosure	IP55			
29	Cooling system	IC411 self ventilated			
30	Bearing DE/NDE	6322/C3 - 6316/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	78	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	5,7	kg-m2		
34	Balancing				
35	Vibration class				
36	Position of terminal box	Top			
37	Terminal box entries; no, dims.				
38	Number of power terminals				
39	Direction of rotation	CW or CCW			
40	Weight of rotor	389	kg		
41	Total weight of motor	1780	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46					
47					
48					
Option Variant Codes / Definition					
49	022: Cable entry LHS (seen from D-end).				
50	115: Painting system C4, durability Medium				
51	129: Double PT100, 3-wire in bearings				
52	148: Routine test report.				
53	181: Rating plate with ABB standard loadability values for VSD operation. Other auxiliaries for VSD operation to be selected as necessary.				
54	278: Cable sealing end unit, size medium for D-opening				
55	293: Adapter D-D				
56	380: Separate terminal box for temperature detectors, std. material				
57	417: Vibration acc. to Grade B (IEC 60034-14).				
58	441: PTC - thermistors (3 in series, 130 °C & 3 in series, 150 °C), in stator winding				
59	503: Pt100 3-wire in stator winding, 2 per phase				
60	701: Insulated bearing at N-end.				
61	704: EMC cable entry.				
62	797: Stainless steel SPM nipples		648 Rating plate in special language Czech		
Remarks:					
Data based on situation 16.02.2026					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					







IEC LV Motors	Diagram for equivalent- star connected motor			
	Project		Location	
Department/Author	Customer name		Customer ref	Item name 1,00001
Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages
	A	03.06.2026	untitled.xlsm	
Product	TEFC, 3-phase, squirrel cage induction motor			
Type/Frame	M3BP 355SMB 4			
Product code	3GBP 352 220-AEK	Calc. ref.	3GZF021035-1217	
Rated output P_N	250	kW		
Duty	S1(IEC) 100%			
Actual Motor:				
Voltage (V)	500 D	Current I_N (A)	348	Power factor at P_N 0,86
Frequency (Hz)	50	Speed (r/min)	1491	Efficiency (%) at P_N 96,1
Equivalent motor Volt/phase 289 V				
	R1s [mOhms]	5,5	X1s [mOhms]	62
	Xmagnetizing [Ohms]	2,4	Rfriction+iron [Ohms]	66
	X2 r nom [mOhms]	105	R2 r nom [mOhms]	5,6
	X2 start [mOhms]	62	R2 start [mOhms]	35
	X2 max [mOhms]	105	R2 max [mOhms]	3,3
				
Data based on situation 16.02.2026				
All data subject to tolerances in accordance with IEC				

IEC LV Motors	Ecodesign VSD operating points		
	Project	Location	
Department/Author	Customer name	Customer ref	Item name 1,00001
Our ref.	Rev/Changed by Date of issue A 03.06.2026	Saving ident untitled.xlsm	Pages 6(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 355SMB 4	Calc. ref.	3GZF021035-1217
Product code	3GBP 352 220-AEK	Frequency (Hz)	50
Catalogue output P_N	250 kW	Catalogue current I_N	348 A
Type of duty	S1(IEC) 100%		

Motor losses at VSD operating points	Losses: in efficiency [%]	Losses: in watt [W]	Losses: in relative to nom. Power [%]
Speed 90% Torque 100%	95,9	9619	3,8
Speed 50% Torque 100%	94,6	7135	2,9
Speed 25% Torque 100%	91,5	5806	2,3
Speed 90% Torque 50%	94,8	6171	2,5
Speed 50% Torque 50%	94,2	3848	1,5
Speed 50% Torque 25%	91,4	2940	1,2
Speed 25% Torque 25%	88,3	2070	0,8

