

ABB Motors and Generators		Technical Data Sheet - DOL			
		Project _____		Location _____	
Department/Author _____		Customer name _____		Customer ref. _____	
Our ref. _____		Rev/Changed by _____		Date of issue _____	
				Saving ident _____	
				Pages 1(3)	

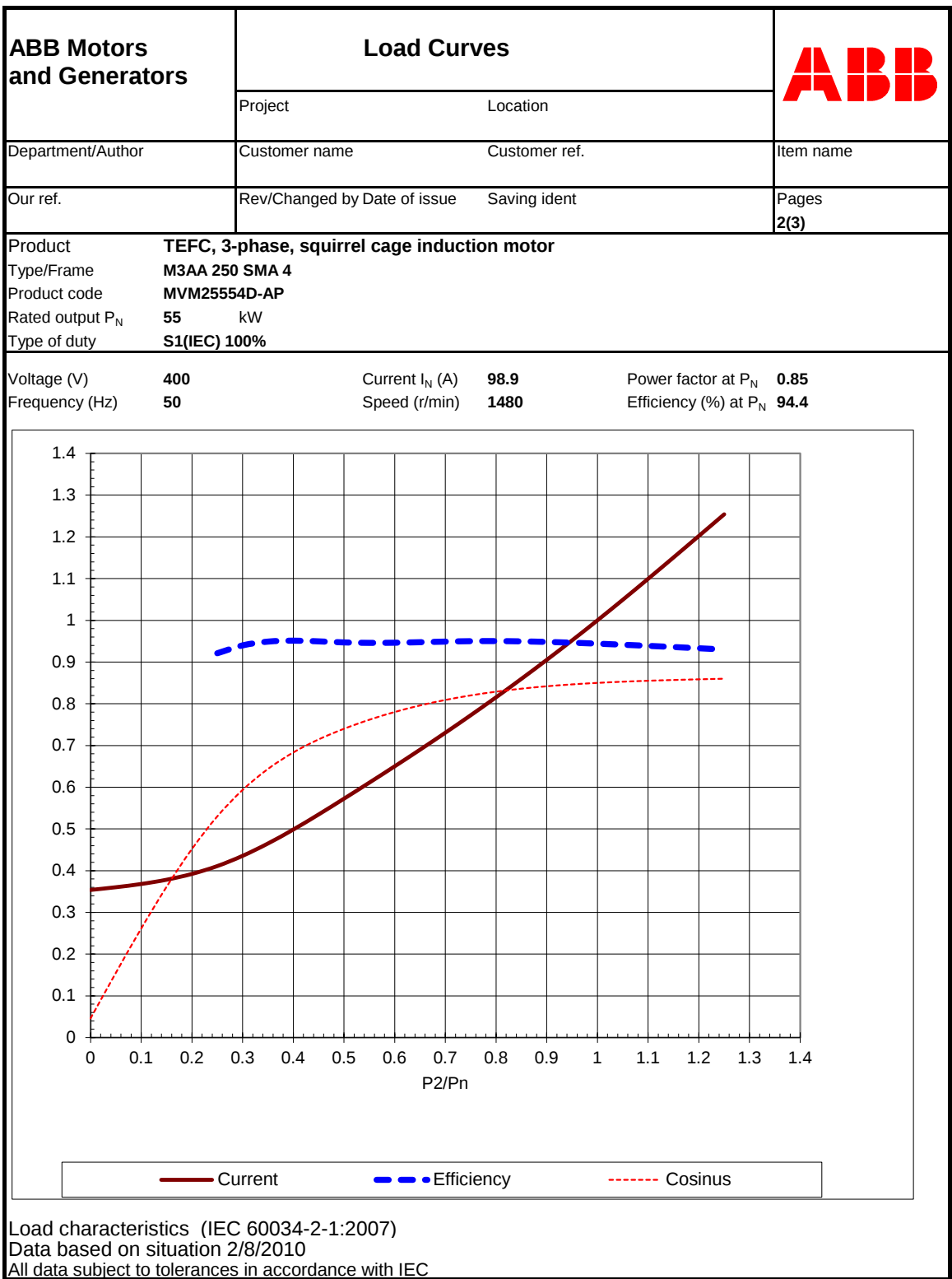
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MVM25554D-AP (3GAA252031-BDG+242+332+408)		
3	Type/Frame	M3AA 250 SMA 4		
4	Mounting	IM3001, B5(flange)		
5	Rated output P _N	55	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	400	VD	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	1480	r/min	
11	Rated current I _N	98.9	A	
12	No-load current	35	A	
13	Starting current I _s /I _N	7		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	355	Nm	
15	Locked rotor torque T _S /T _N	2.6		
16	Maximum torque T _{max} /T _N	2.9		
17	Minimum torque T _{min} /T _N	2.2		
18	Speed at minimum torque	945	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	98.9	94.4 / IE2
21		75	76.4	95
22		50	56.6	94.7
23		Start	692	0.42
24	Maximum starting time from hot	15	s	
25	Maximum starting time from cold	27	s	
26	Insulation class / Temperature class	F / B		
27	Ambient temperature	40	°C	
28	Altitude	1000	m.a.s.l.	
29	Enclosure	IP55		
30	Cooling system	IC411 self ventilated		
31	Bearing DE/NDE	6315-2Z/C3 - 6213-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.765	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	2xM40x1.5 + 1xM16x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	314	kg	
42				

Variant Codes / Definition

242 = Fulfilling CSA Energy Efficiency Verification IE2 (code 010 included)
332 = Baldor catalog number
408 = Fulfilling EISA Subtype II efficiency requirements, CC031A

Remarks:

Data based on situation 2/8/2010 All data subject to tolerances in accordance with IEC Guaranteed values on request



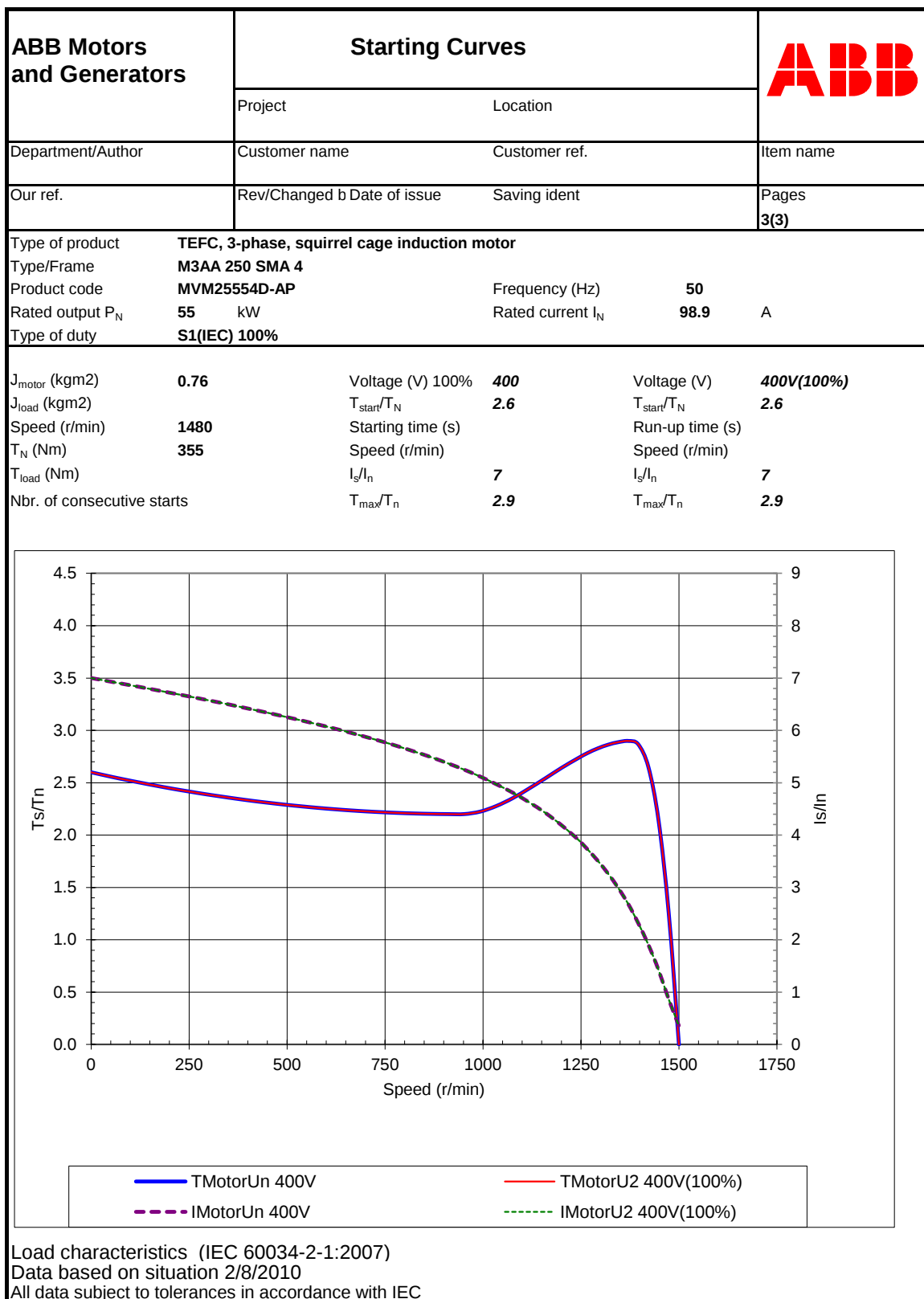


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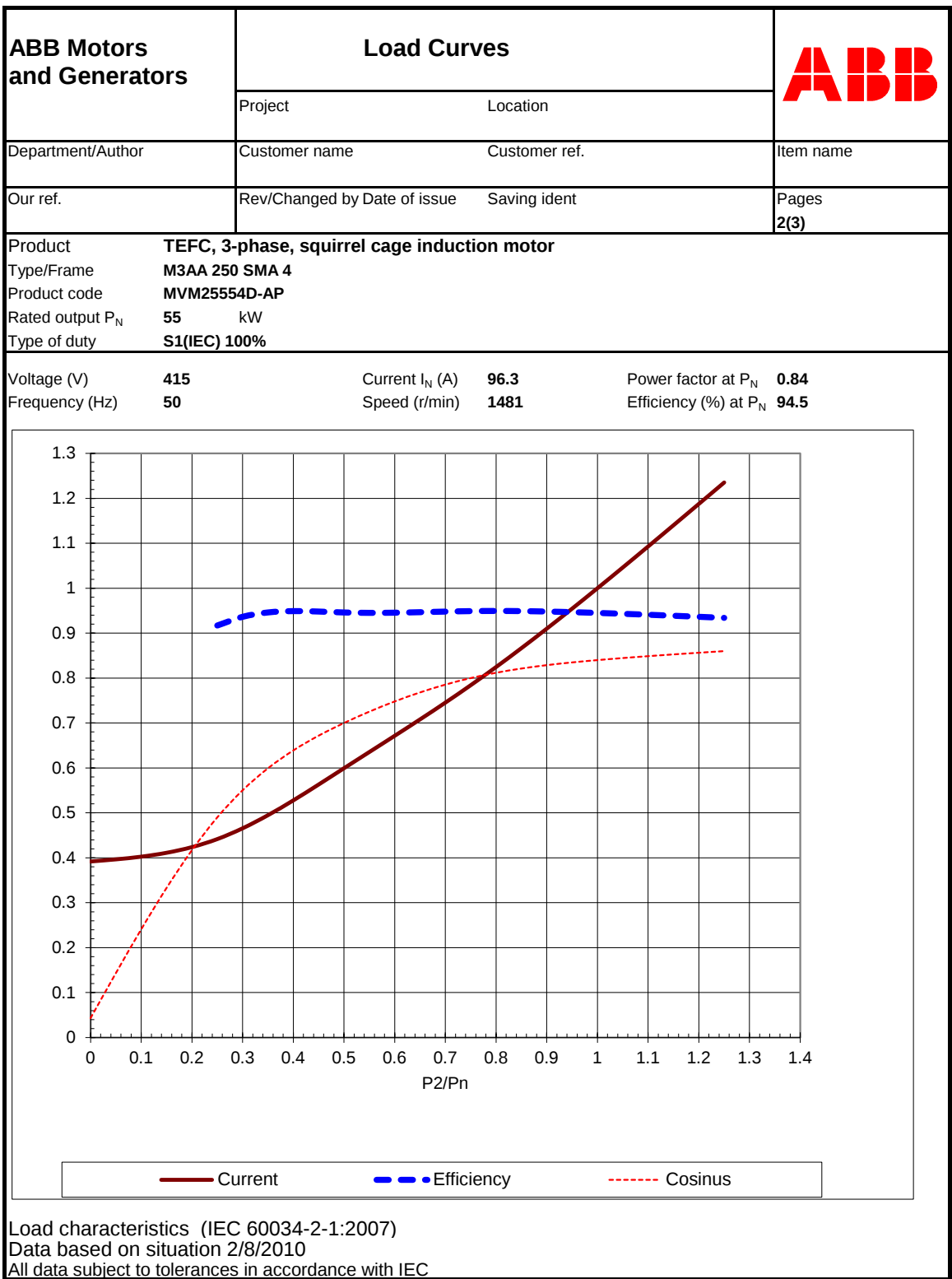
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3	Type/Frame	M3AA 250 SMA 4		
4	Mounting	IM3001, B5(flange)		
5	Rated output P _N	55	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	415	VD	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	1481	r/min	
11	Rated current I _N	96.3	A	
12	No-load current	38	A	
13	Starting current I _s /I _N	7.5		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	355	Nm	
15	Locked rotor torque T _s /T _N	2.8		
16	Maximum torque T _{max} /T _N	3.2		
17	Minimum torque T _{min} /T _N	2.4		
18	Speed at minimum torque	945	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	96.3	94.5 / IE2
21		75	75.5	94.9
22		50	57.7	94.6
23		Start	722	0.43
24	Maximum starting time from hot	15	s	
25	Maximum starting time from cold	30	s	
26	Insulation class / Temperature class	F / B		
27	Ambient temperature	40	°C	
28	Altitude	1000	m.a.s.l.	
29	Enclosure	IP55		
30	Cooling system	IC411 self ventilated		
31	Bearing DE/NDE	6315-2Z/C3 - 6213-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.765	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	2xM40x1.5 + 1xM16x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	314	kg	
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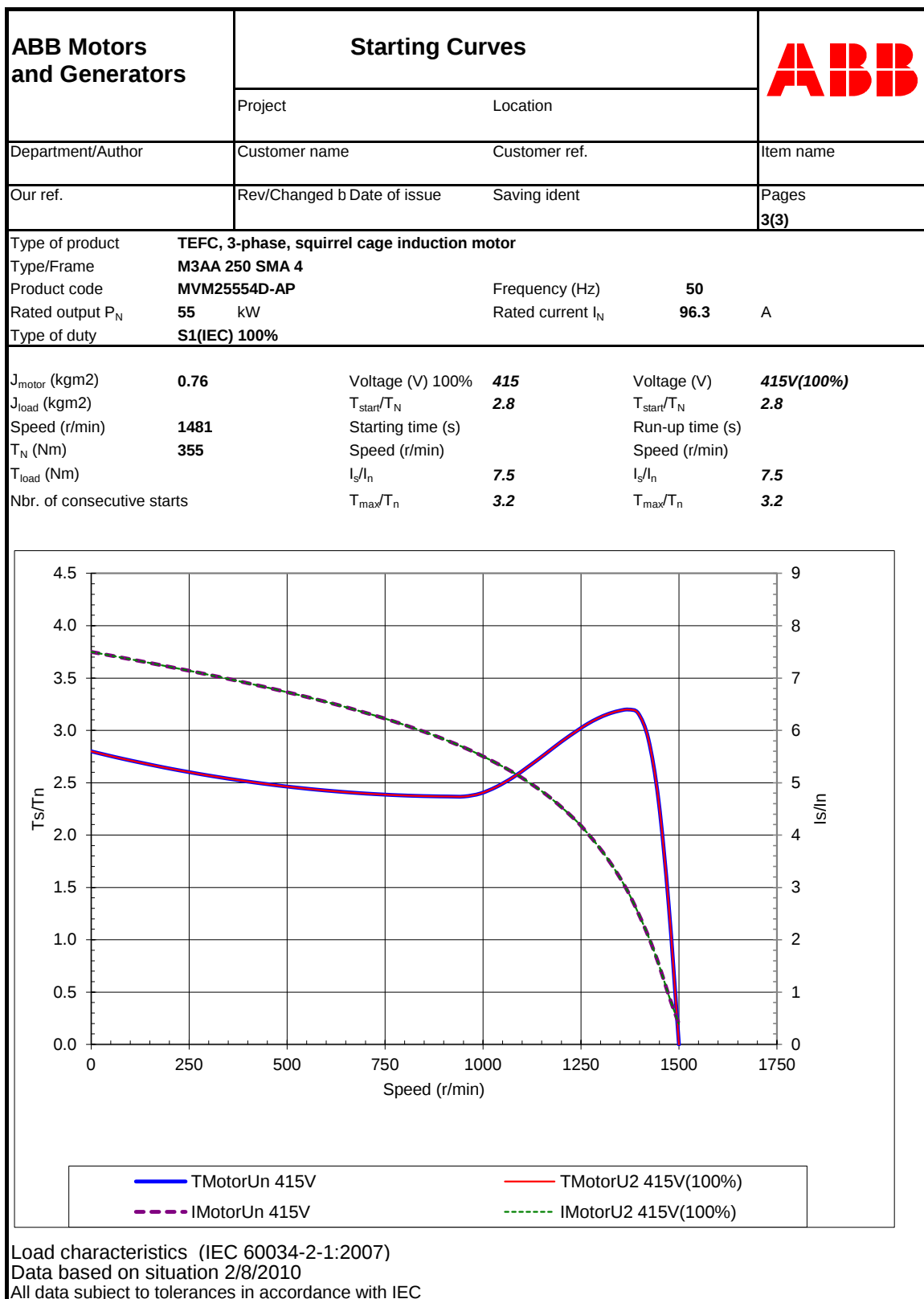


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2	Product code	MVM25554D-AP (3GAA252031-BDG+242+332+408)			
3	Type/Frame	M3AA 250 SMA 4			
4	Mounting	IM3001, B5(flange)			
5	Rated output P _N	55	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	690	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1480	r/min		
11	Rated current I _N	57.3	A		
12	No-load current	20	A		
13	Starting current I _s /I _N	7		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	355	Nm		
15	Locked rotor torque T _S /T _N	2.6			
16	Maximum torque T _{max} /T _N	2.9			
17	Minimum torque T _{min} /T _N	2.2			
18	Speed at minimum torque	945	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	57.3	94.4 / IE2	0.85
21		75	44.3	95	0.82
22		50	32.8	94.7	0.74
23		Start	401		0.42
24	Maximum starting time from hot	15	s		
25	Maximum starting time from cold	27	s		
26	Insulation class / Temperature class	F / B			
27	Ambient temperature	40	°C		
28	Altitude	1000	m.a.s.l.		
29	Enclosure	IP55			
30	Cooling system	IC411 self ventilated			
31	Bearing DE/NDE	6315-2Z/C3 - 6213-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.765	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM40x1.5 + 1xM16x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	314	kg		
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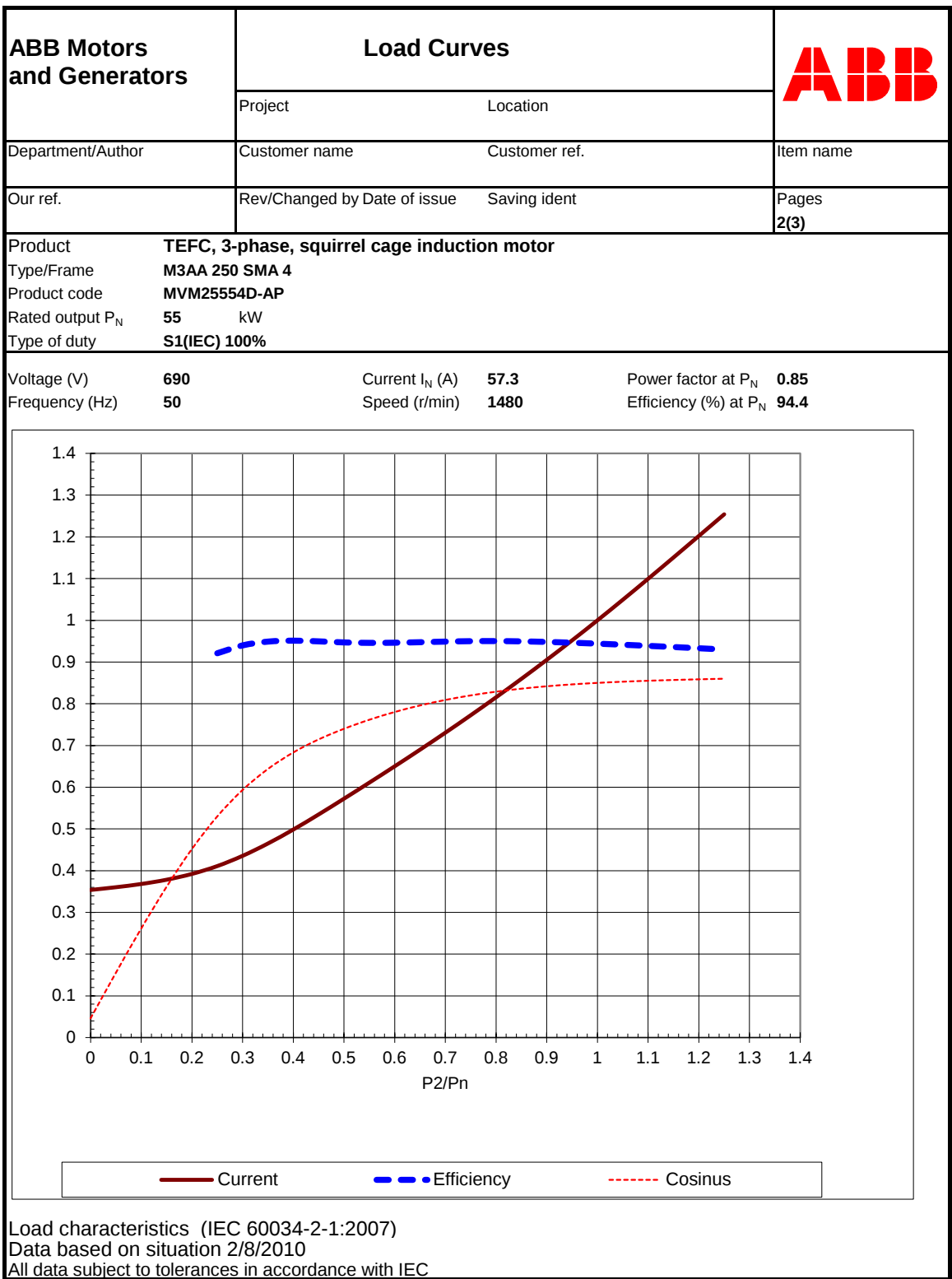
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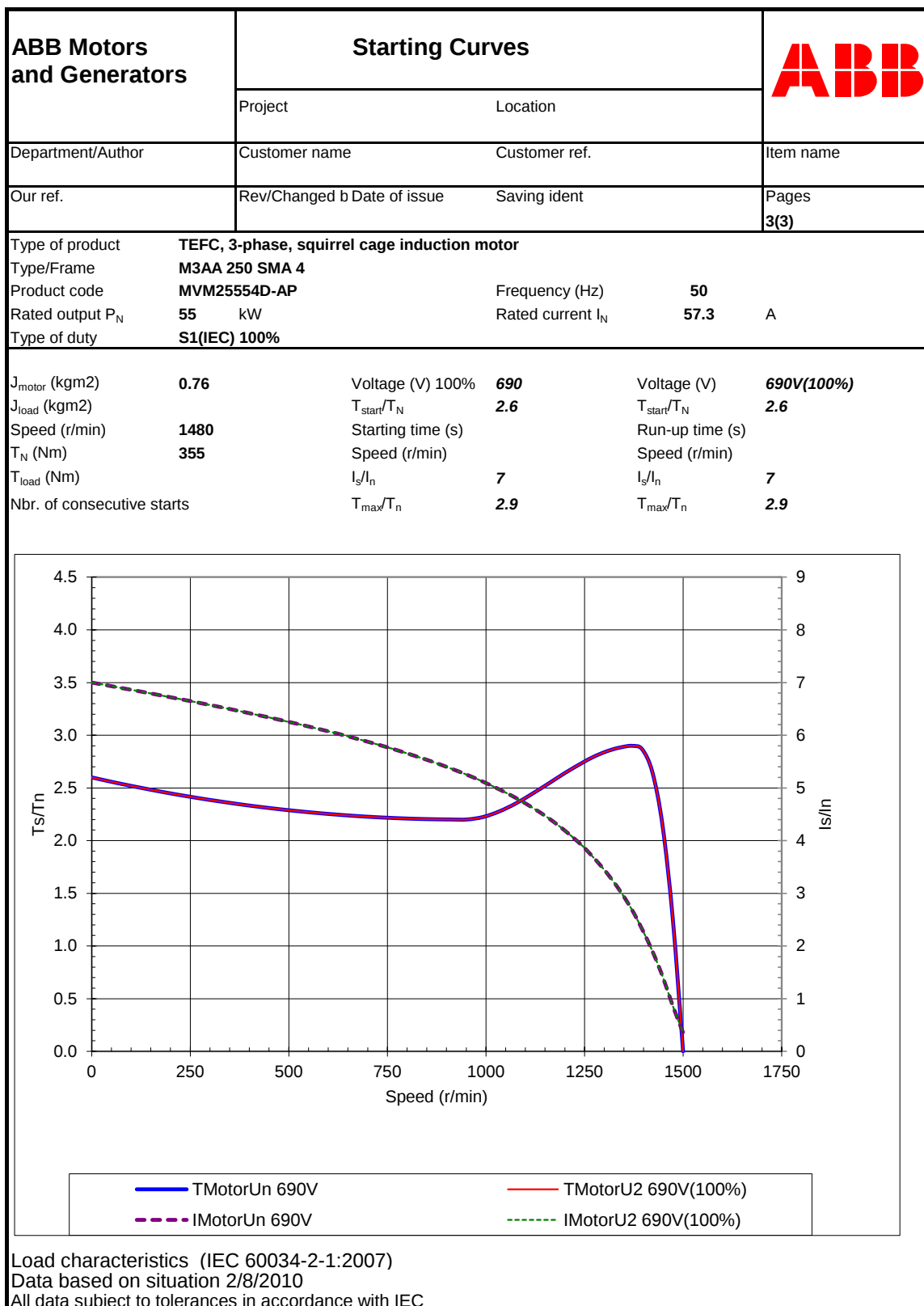


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3	Type/Frame	M3AA 250 SMA 4			
4	Mounting	IM3001, B5(flange)			
5	Rated output P _N	55	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	460	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	60	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1782	r/min		
11	Rated current I _N	86.3	A		
12	No-load current	32	A		
13	Starting current I _s /I _N	8		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	295	Nm		
15	Locked rotor torque T _S /T _N	2.8			
16	Maximum torque T _{max} /T _N	3.3			
17	Minimum torque T _{min} /T _N	2.5			
18	Speed at minimum torque	1134	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	
20	PLL determined from residual loss	100	86.3	95.2 / IE2	
21		75	67.8	95.4	
22		50	51.1	95	
23		Start	690	0.42	
24	Maximum starting time from hot	15	s		
25	Maximum starting time from cold	27	s		
26	Insulation class / Temperature class	F / B			
27	Ambient temperature	40	°C		
28	Altitude	1000	m.a.s.l.		
29	Enclosure	IP55			
30	Cooling system	IC411 self ventilated			
31	Bearing DE/NDE	6315-2Z/C3 - 6213-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	75	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.765	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM40x1.5 + 1xM16x1.5			
39	Number of power terminals	6			
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