

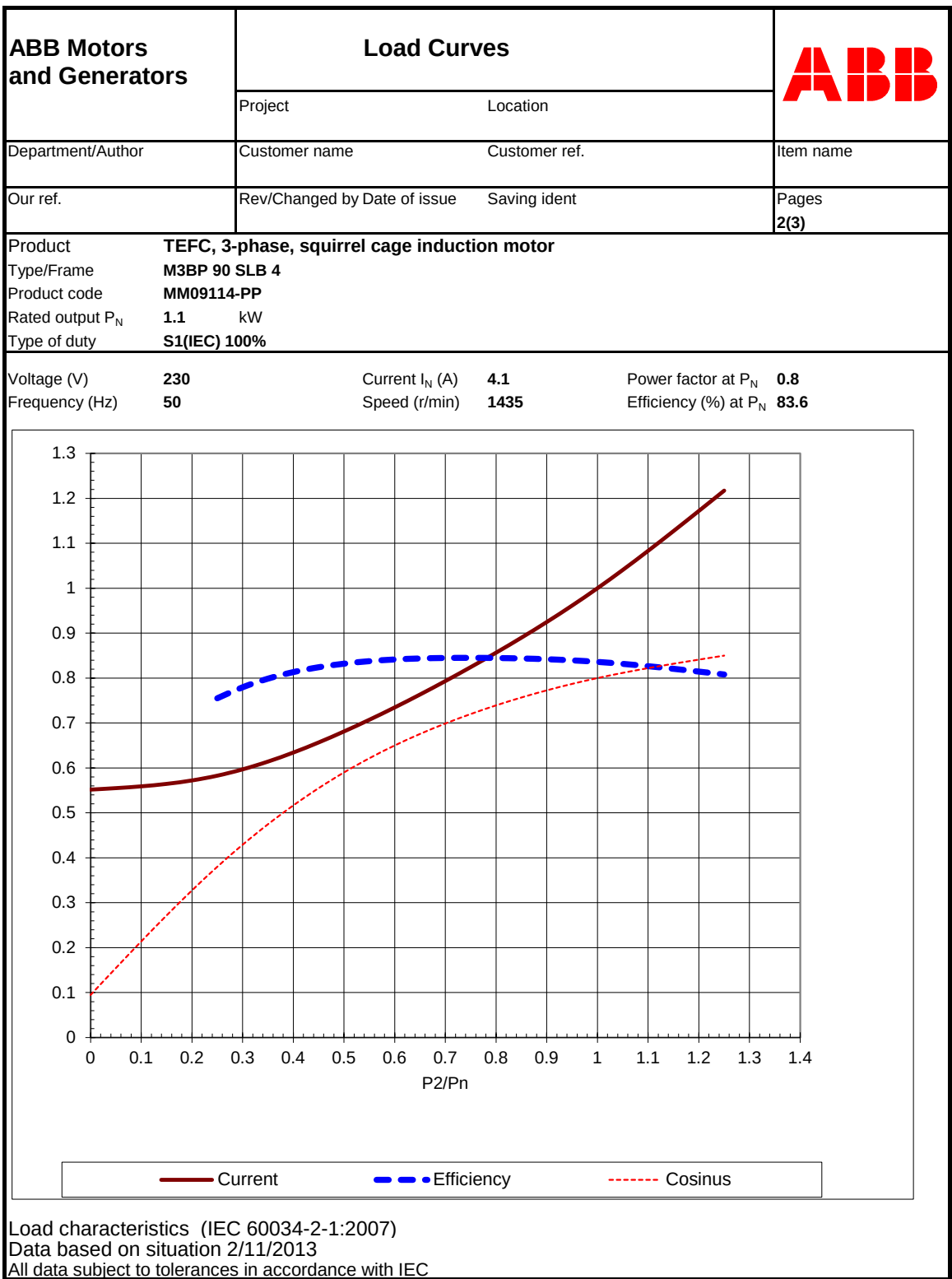
ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident		Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM09114-PP (3GBP092322-ASB+332+333)			
3	Type/Frame	M3BP 90 SLB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.1	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	230	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1435	r/min		
11	Rated current I _N	4.1	A		
12	No-load current	2.3	A		
13	Starting current I _s /I _N	6.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	7.3	Nm		
15	Locked rotor torque T _S /T _N	2.7			
16	Maximum torque T _{max} /T _N	3.4			
17	Minimum torque T _{min} /T _N	2.6			
18	Speed at minimum torque	195	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	4.1	83.6 / IE2	0.8
21		75	3.4	84.5	0.72
22		50	2.8	83.2	0.59
23		Start	25.1		0.66
24	Maximum starting time from hot	20	s		
25	Maximum starting time from cold	36	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	6205-2Z/C3 - 6204-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	50	dB(A)		at load
34	Moment of inertia J = ¼ GD2	0.0044	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM32x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	4	kg		
42	Total weight of motor	25	kg		
43					

Variant Codes / Definition
332 = Baldor catalog number
333 = Not for use in the USA

Remarks:

Data based on situation 2/11/2013
All data subject to tolerances in accordance with IEC
Guaranteed values on request



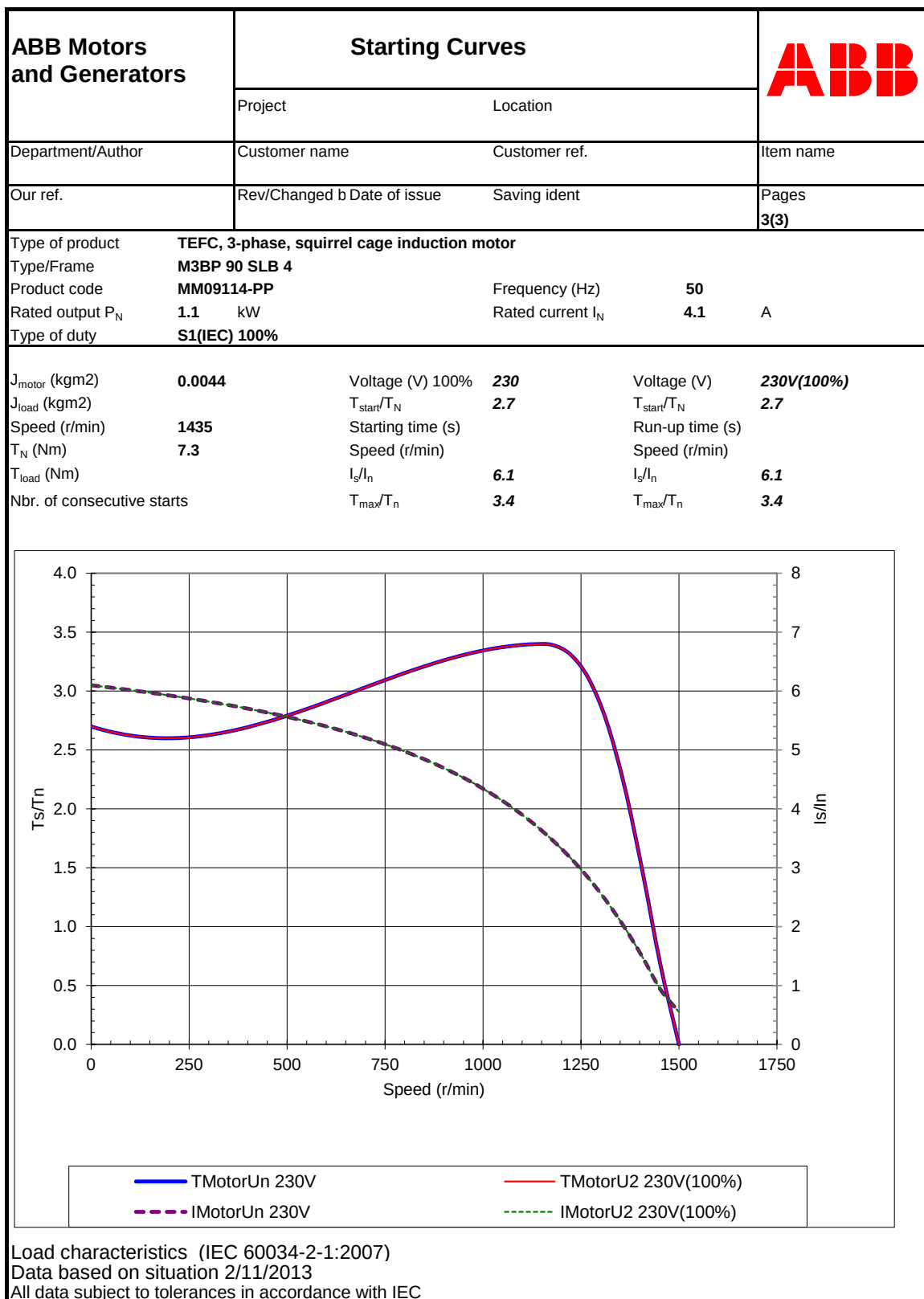
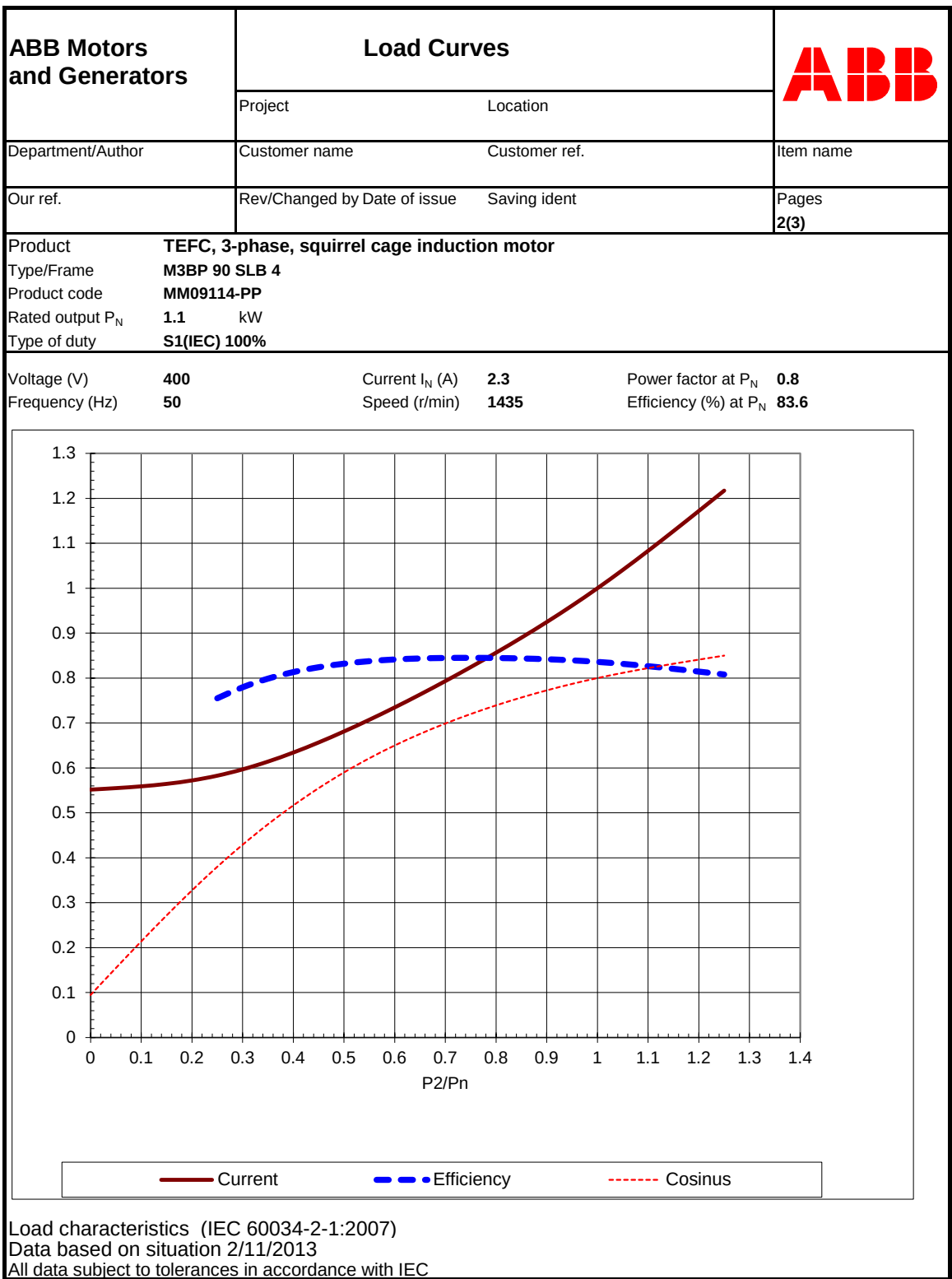


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2	Product code	MM09114-PP (3GBP092322-ASB+332+333)			
3	Type/Frame	M3BP 90 SLB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.1	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	400	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1435	r/min		
11	Rated current I _N	2.3	A		
12	No-load current	1.31	A		
13	Starting current I _s /I _N	6.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	7.3	Nm		
15	Locked rotor torque T _S /T _N	2.7			
16	Maximum torque T _{max} /T _N	3.4			
17	Minimum torque T _{min} /T _N	2.6			
18	Speed at minimum torque	195	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	2.3	83.6 / IE2	0.8
21		75	1.95	84.5	0.72
22		50	1.61	83.2	0.59
23		Start	14.4		0.66
24	Maximum starting time from hot	20	s		
25	Maximum starting time from cold	36	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	6205-2Z/C3 - 6204-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	50	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.0044	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM32x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	4	kg		
42	Total weight of motor	25	kg		
43					

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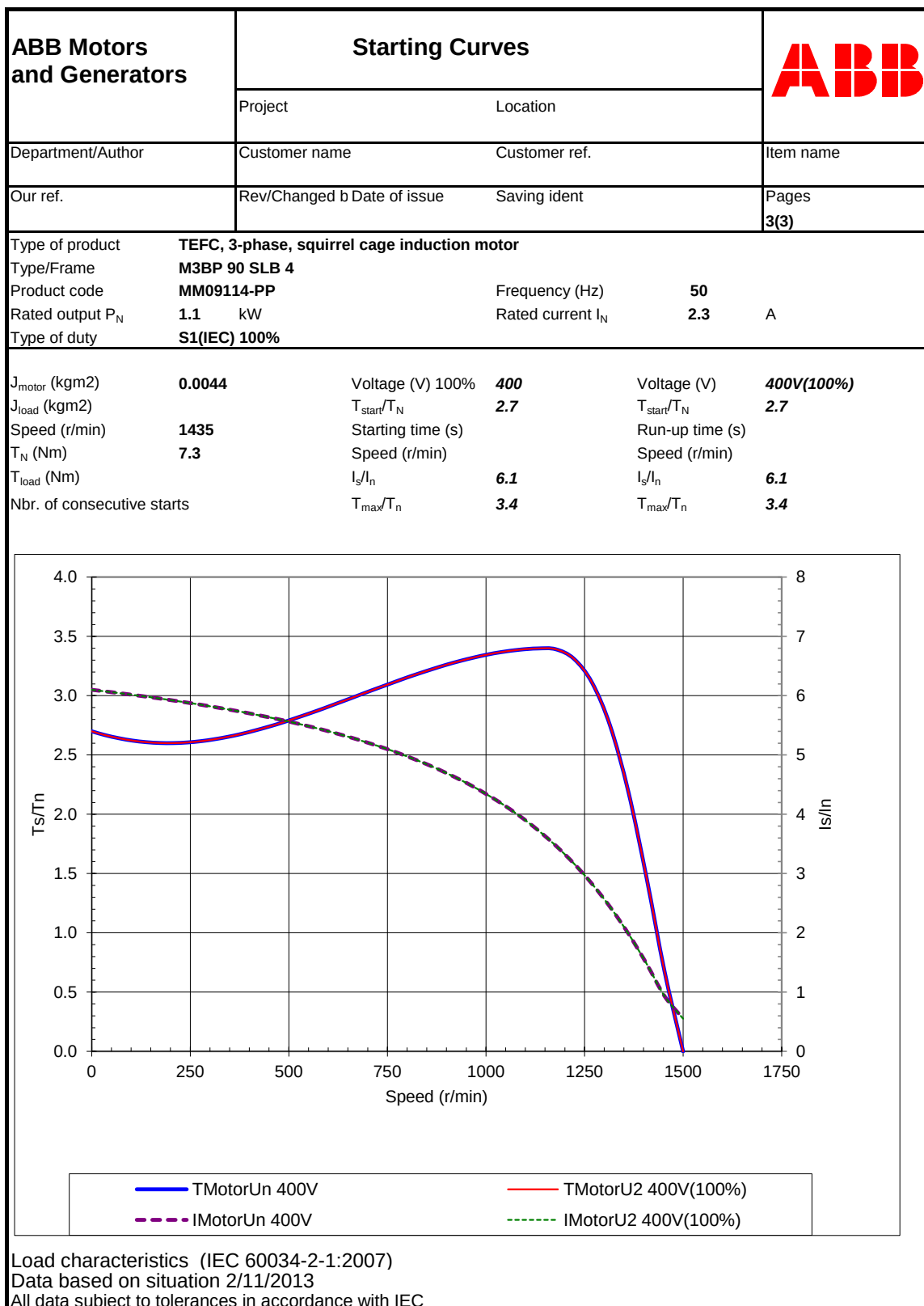


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3	Type/Frame	M3BP 90 SLB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.1	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	460	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	60	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1740	r/min		
11	Rated current I _N	2	A		
12	No-load current	1.24	A		
13	Starting current I _s /I _N	7		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	6	Nm		
15	Locked rotor torque T _S /T _N	2.9			
16	Maximum torque T _{max} /T _N	4.1			
17	Minimum torque T _{min} /T _N	2.8			
18	Speed at minimum torque	234	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	2	85.4 / IE2	0.77
21		75	1.76	85.2	0.69
22		50	1.51	82.9	0.55
23		Start	14.6		0.66
24	Maximum starting time from hot	20	s		
25	Maximum starting time from cold	36	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	6205-2Z/C3 - 6204-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	57	dB(A)		at load
34	Moment of inertia J = ¼ GD2	0.0044	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM32x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	4	kg		
42	Total weight of motor	25	kg		
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