

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)

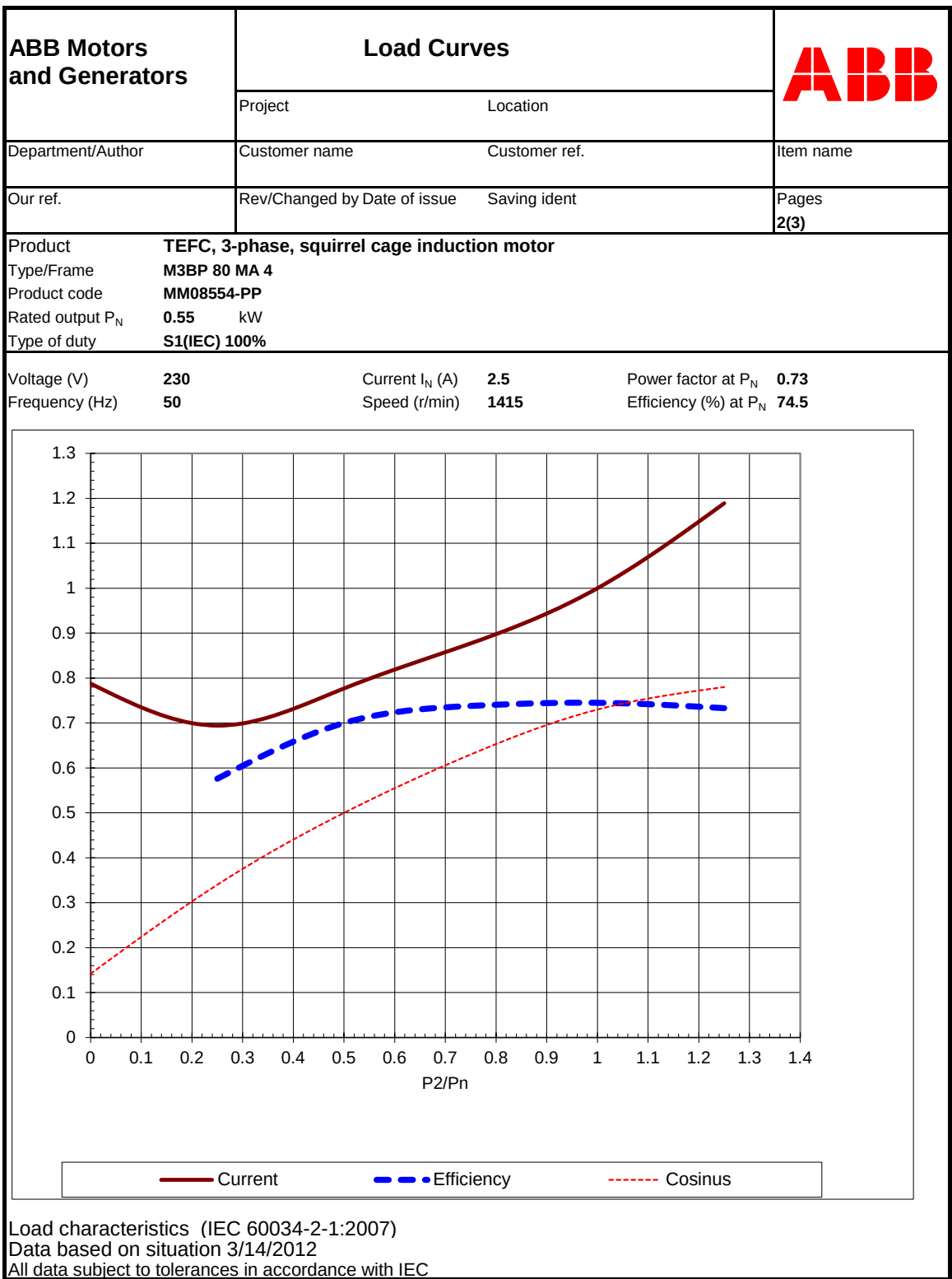
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM08554-PP (3GBP082321-ASB+332)			
3	Type/Frame	M3BP 80 MA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	0.55	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	230	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1415	r/min		
11	Rated current I _N	2.5	A		
12	No-load current	2	A		
13	Starting current I _s /I _N	5		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	3.7	Nm		
15	Locked rotor torque T _S /T _N	2			
16	Maximum torque T _{max} /T _N	2.8			
17	Minimum torque T _{min} /T _N	1.9			
18	Speed at minimum torque	150	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	2.5	74.5	0.73
21		75	2.2	73.8	0.63
22		50	1.97	70	0.5
23		Start	12.6		0.78
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	6204-2Z/C3 - 6203-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	45	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.00144	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM25x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	2	kg		
42	Total weight of motor	15	kg		
43					

Variant Codes / Definition

332 = Baldor catalog number

Remarks:

Data based on situation 3/14/2012
All data subject to tolerances in accordance with IEC
Guaranteed values on request



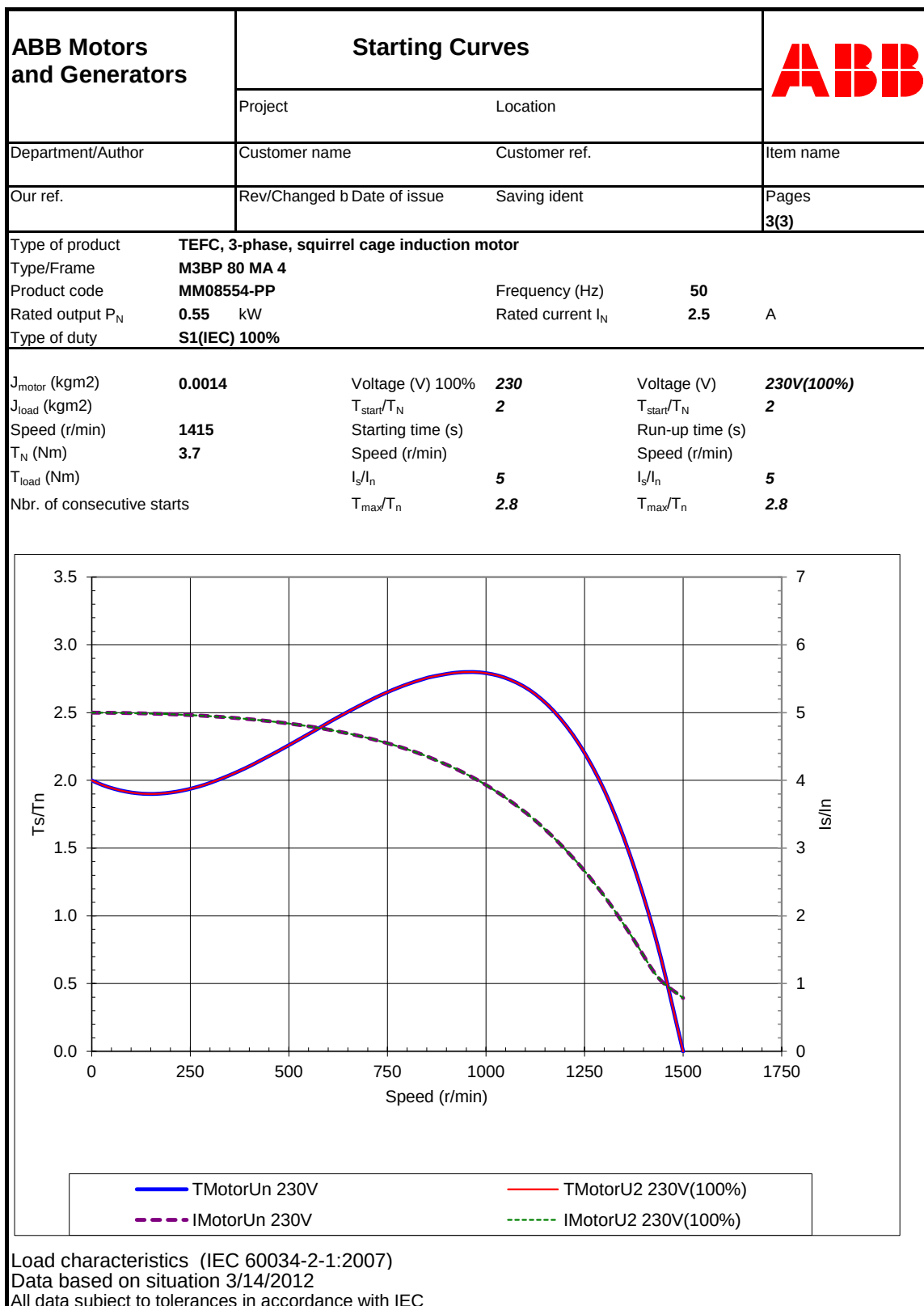


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1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM08554-PP (3GBP082321-ASB+332)			
3	Type/Frame	M3BP 80 MA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	0.55	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
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	1415	r/min		
11	Rated current I _N	1.45	A		
12	No-load current	1.15	A		
13	Starting current I _s /I _N	5		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	3.7	Nm		
15	Locked rotor torque T _S /T _N	2			
16	Maximum torque T _{max} /T _N	2.8			
17	Minimum torque T _{min} /T _N	1.9			
18	Speed at minimum torque	150	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	1.45	74.5	0.73
21		75	1.28	73.8	0.63
22		50	1.13	70	0.5
23		Start	7.2		0.78
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	6204-2Z/C3 - 6203-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	45	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.00144	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM25x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	2	kg		
42	Total weight of motor	15	kg		
43					

Variant Codes / Definition

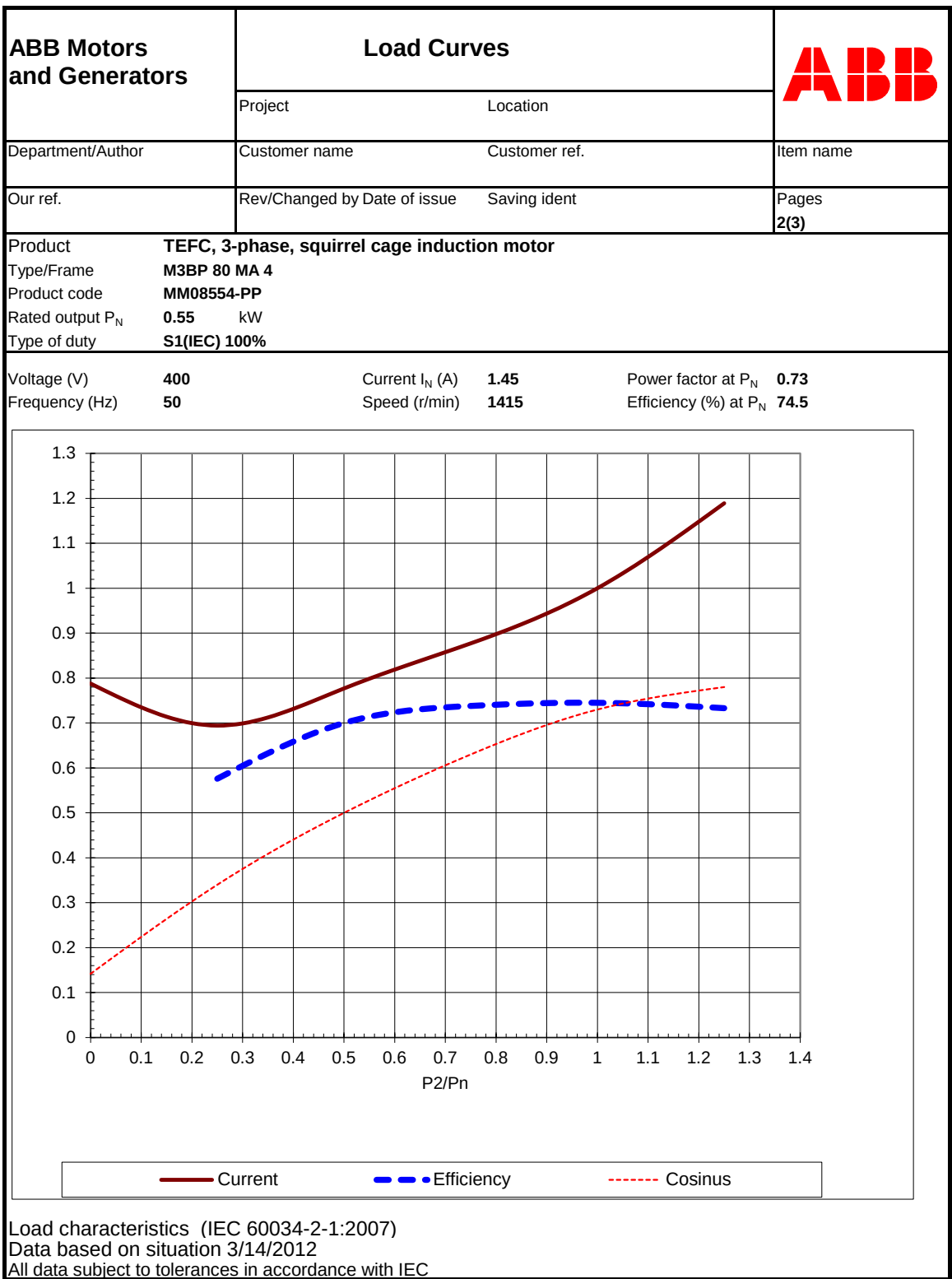
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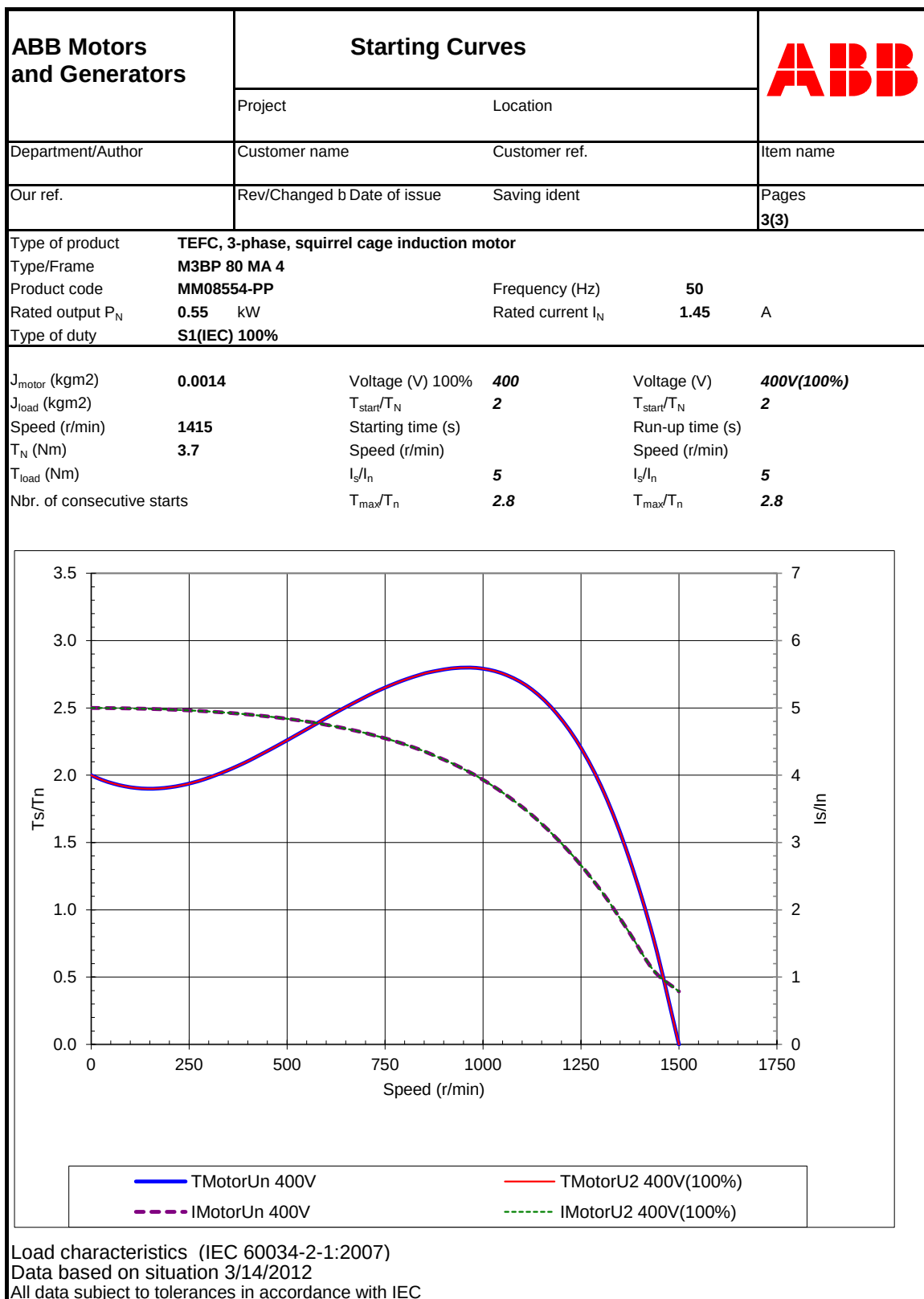


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		Project		Location		
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Our ref.		Rev/Changed by	Date of issue	Saving ident		Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM08554-PP (3GBP082321-ASB+332)			
3	Type/Frame	M3BP 80 MA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	0.55	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	1725	r/min		
11	Rated current I _N	1.37	A		
12	No-load current	1.04	A		
13	Starting current I _s /I _N	6		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	3	Nm		
15	Locked rotor torque T _S /T _N	2.3			
16	Maximum torque T _{max} /T _N	3.5			
17	Minimum torque T _{min} /T _N	2.2			
18	Speed at minimum torque	180	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	1.37	77.4	0.65
21		75	1.23	76.3	0.55
22		50	1.11	71.9	0.43
23		Start	8.2		0.74
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	6204-2Z/C3 - 6203-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	52	dB(A)		at load
34	Moment of inertia J = ¼ GD2	0.00144	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM25x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	2	kg		
42	Total weight of motor	15	kg		
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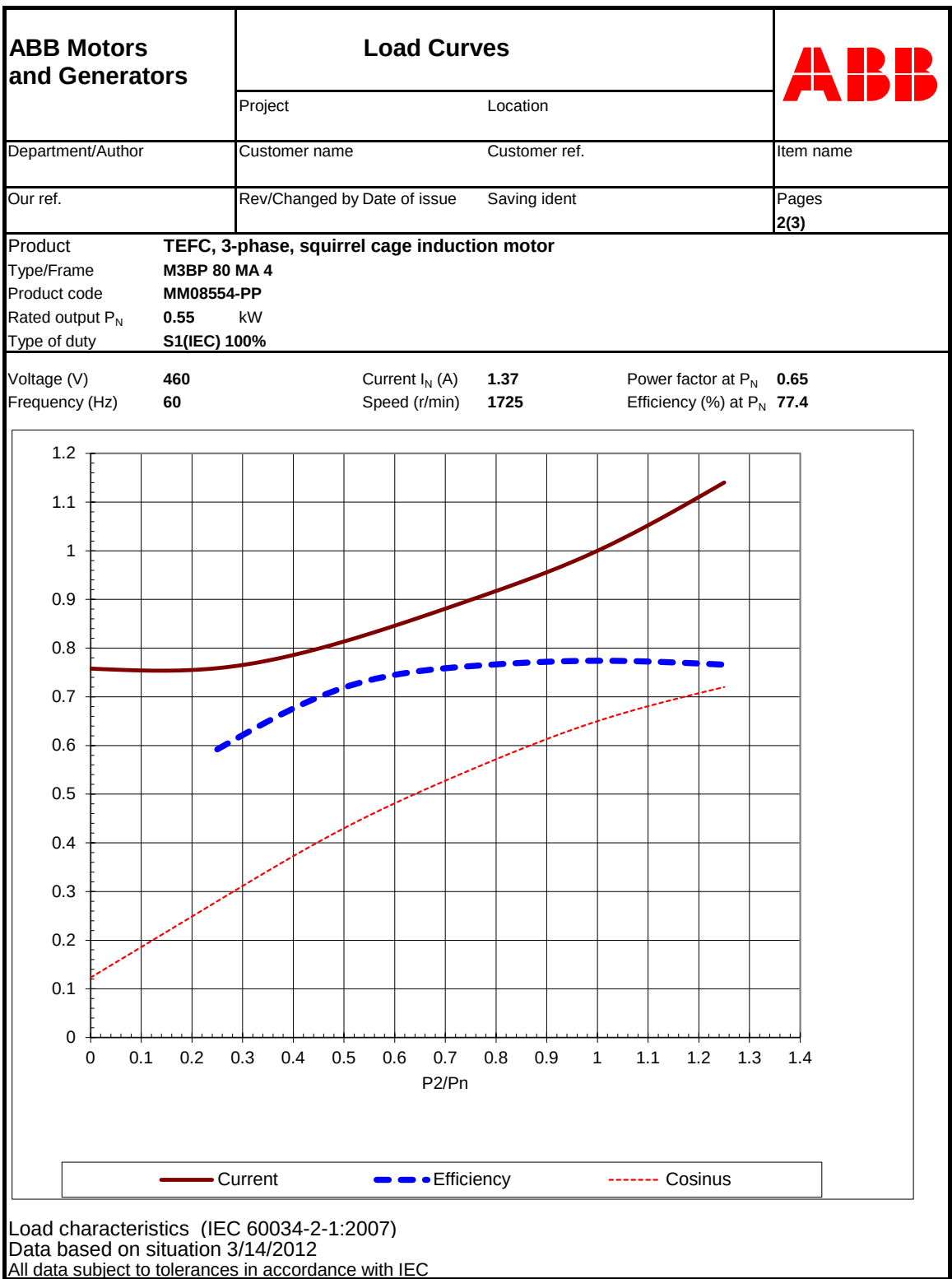
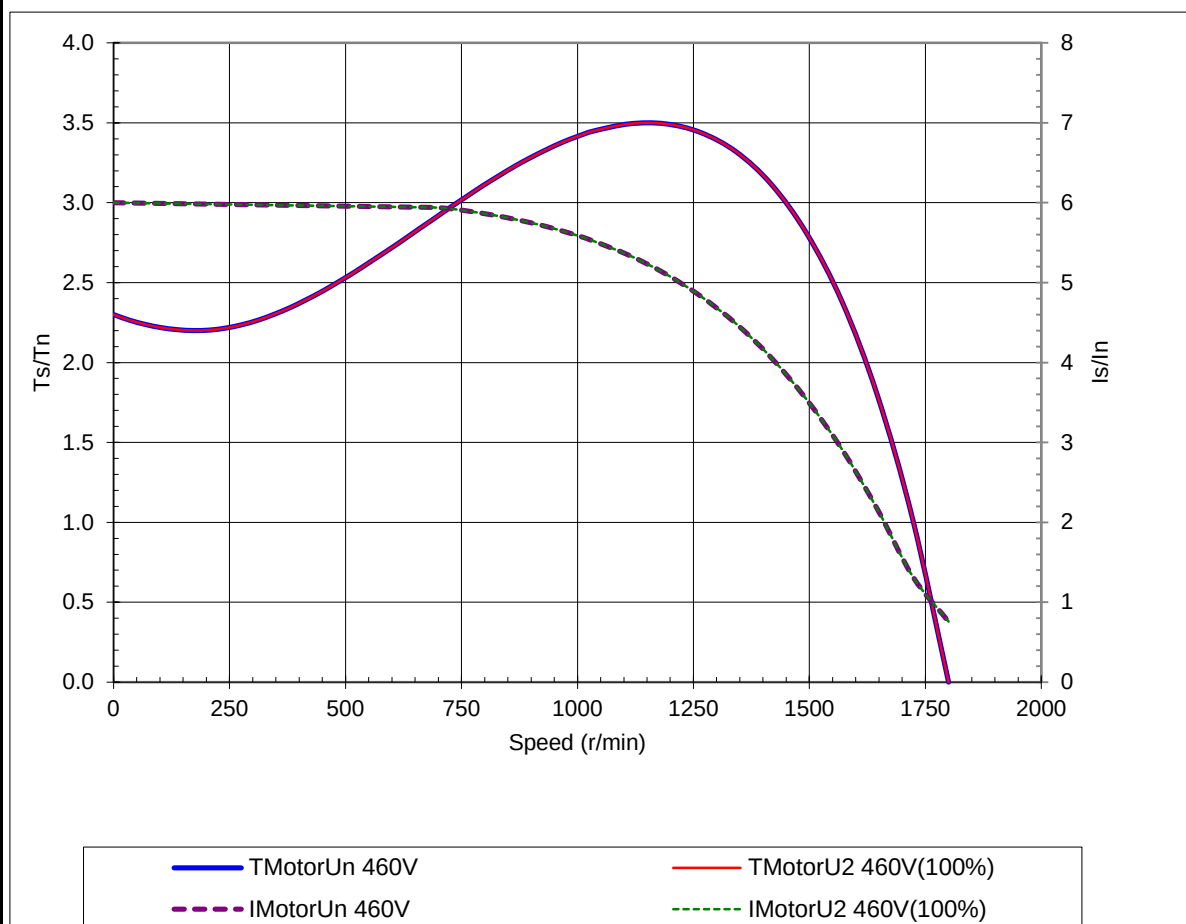


ABB Motors and Generators	Starting Curves		ABB
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b	Date of issue	Saving ident
			Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 80 MA 4		
Product code	MM08554-PP	Frequency (Hz)	60
Rated output P_N	0.55 kW	Rated current I_N	1.37 A
Type of duty	S1(IEC) 100%		

J_{motor} (kgm ²)	0.0014	Voltage (V) 100%	460	Voltage (V)	460V(100%)
J_{load} (kgm ²)		T_{start}/T_N	2.3	T_{start}/T_N	2.3
Speed (r/min)	1725	Starting time (s)		Run-up time (s)	
T_N (Nm)	3	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_N	6	I_s/I_N	6
Nbr. of consecutive starts		T_{max}/T_N	3.5	T_{max}/T_N	3.5



Load characteristics (IEC 60034-2-1:2007)
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