

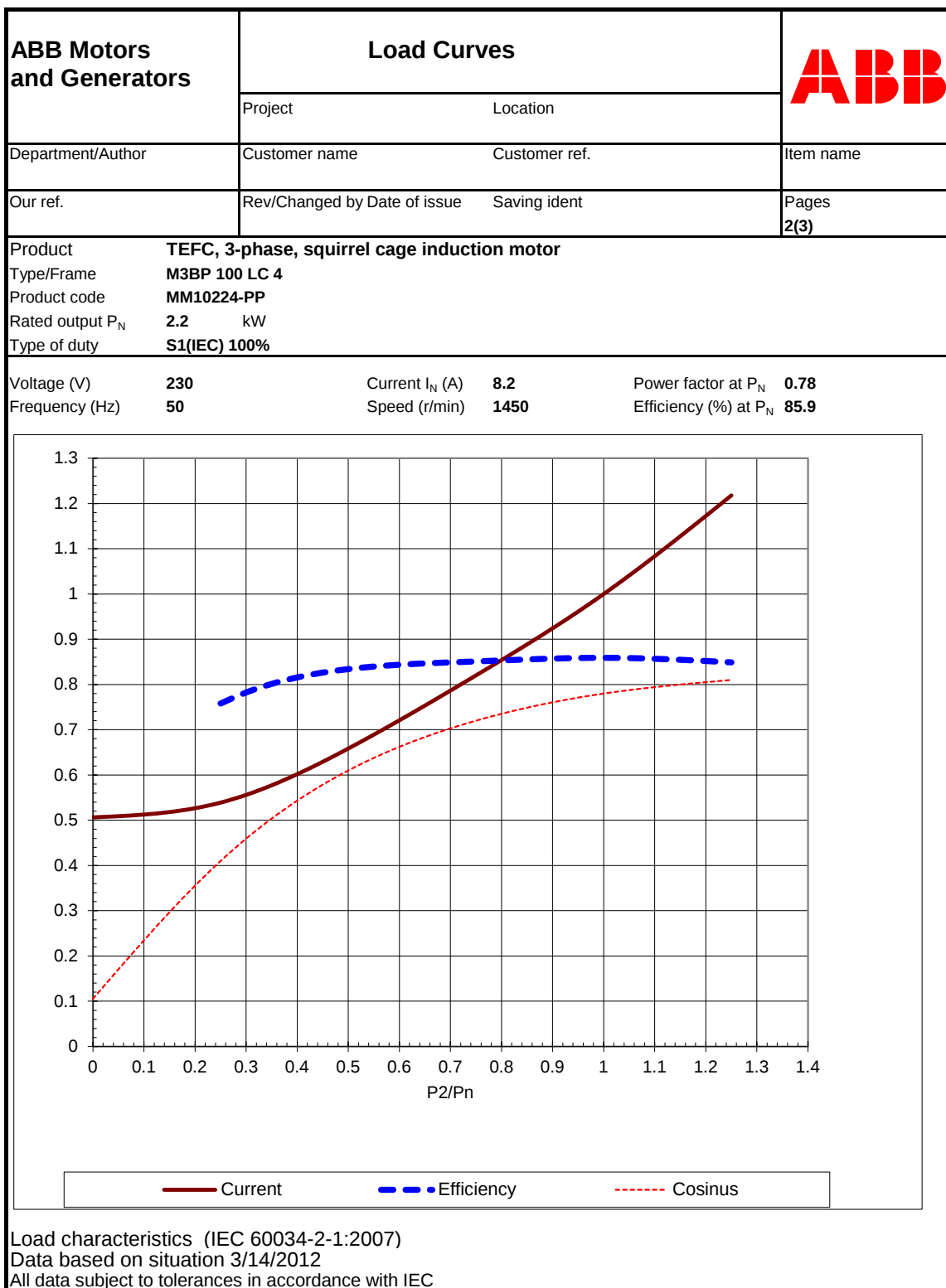
ABB Motors and Generators		Technical Data Sheet - DOL			
		Project _____		Location _____	
Department/Author _____		Customer name _____		Customer ref. _____	
Our ref. _____		Rev/Changed by _____		Date of issue _____	
		Saving ident _____		Pages 1(3)	

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM10224-PP (3GBP102323-ASB+332)			
3	Type/Frame	M3BP 100 LC 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	2.2	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	1450	r/min		
11	Rated current I _N	8.2	A		
12	No-load current	4.2	A		
13	Starting current I _s /I _N	6.4		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	14.5	Nm		
15	Locked rotor torque T _S /T _N	2.9			
16	Maximum torque T _{max} /T _N	3.6			
17	Minimum torque T _{min} /T _N	2.7			
18	Speed at minimum torque	255	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	8.2	85.9 / IE2	0.78
21		75	6.7	85.1	0.72
22		50	5.4	83.4	0.61
23		Start	52		0.59
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	6206-2Z/C3 - 6205-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	56	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.00948	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	6	kg		
42	Total weight of motor	36	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



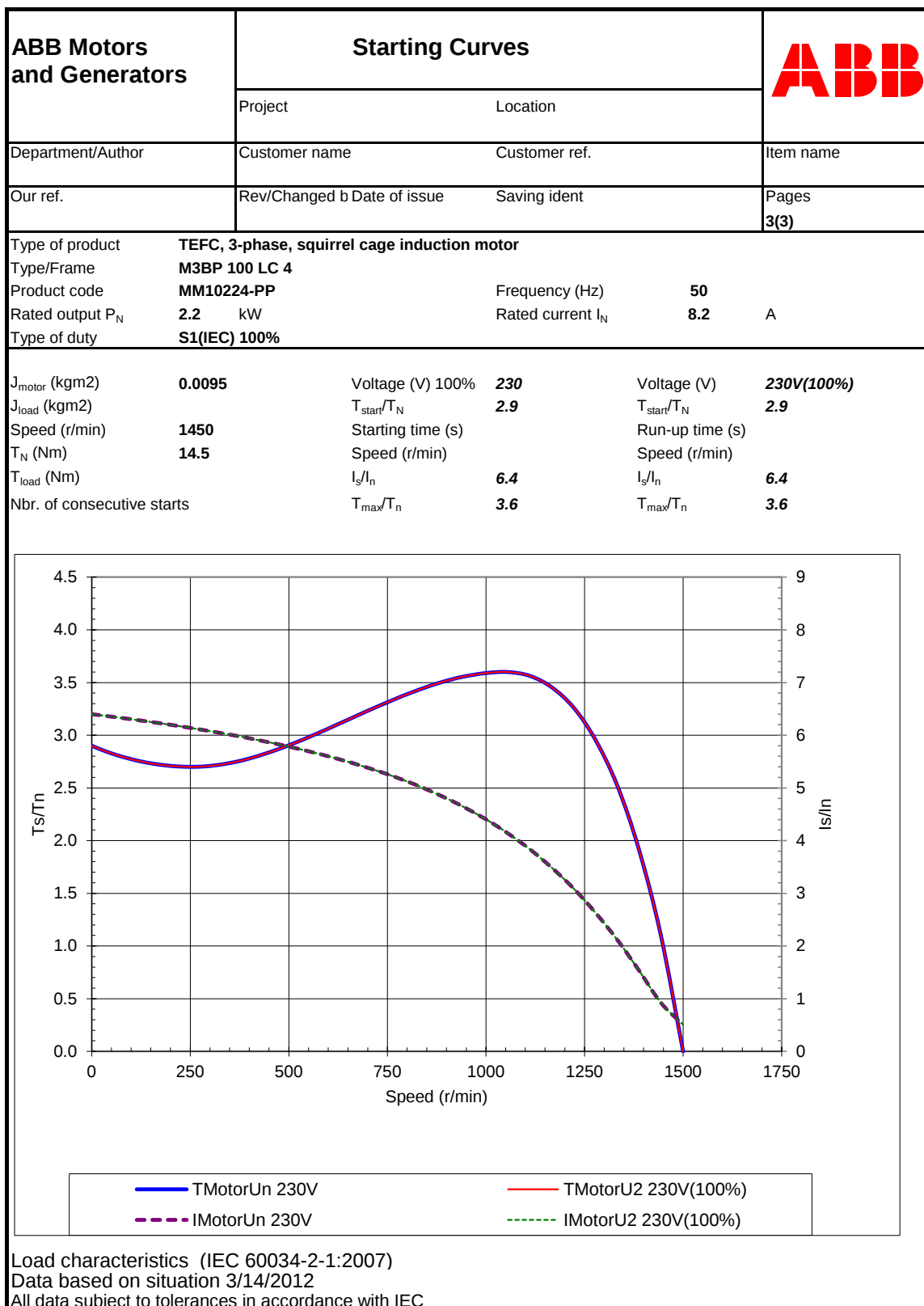


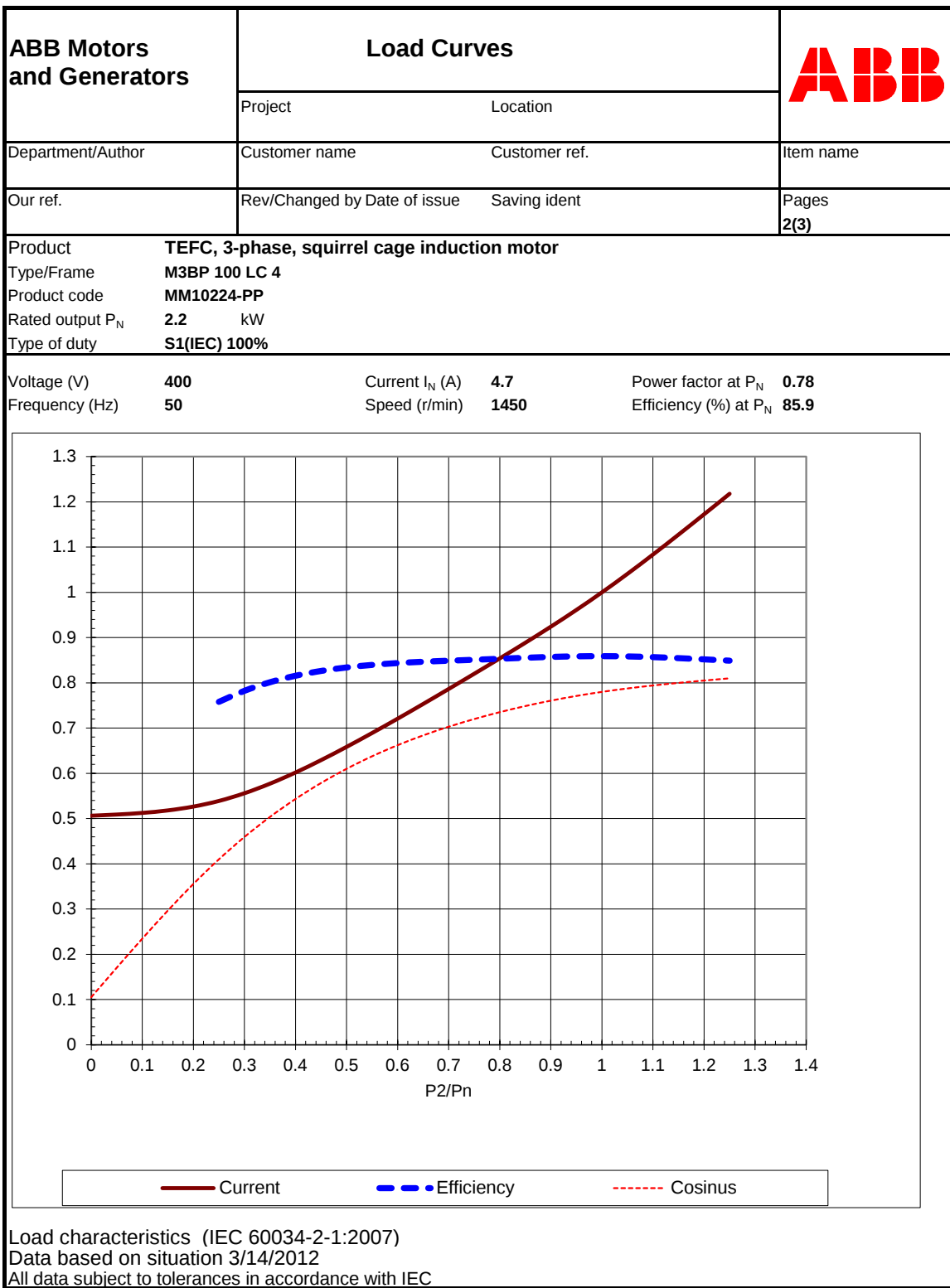
ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)	

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM10224-PP (3GBP102323-ASB+332)			
3	Type/Frame	M3BP 100 LC 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	2.2	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	1450	r/min		
11	Rated current I _N	4.7	A		
12	No-load current	2.4	A		
13	Starting current I _s /I _N	6.4		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	14.5	Nm		
15	Locked rotor torque T _S /T _N	2.9			
16	Maximum torque T _{max} /T _N	3.6			
17	Minimum torque T _{min} /T _N	2.7			
18	Speed at minimum torque	255	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	4.7	85.9 / IE2	0.78
21		75	3.8	85.1	0.72
22		50	3.1	83.4	0.61
23		Start	30		0.59
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	6206-2Z/C3 - 6205-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	56	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.00948	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	6	kg		
42	Total weight of motor	36	kg		
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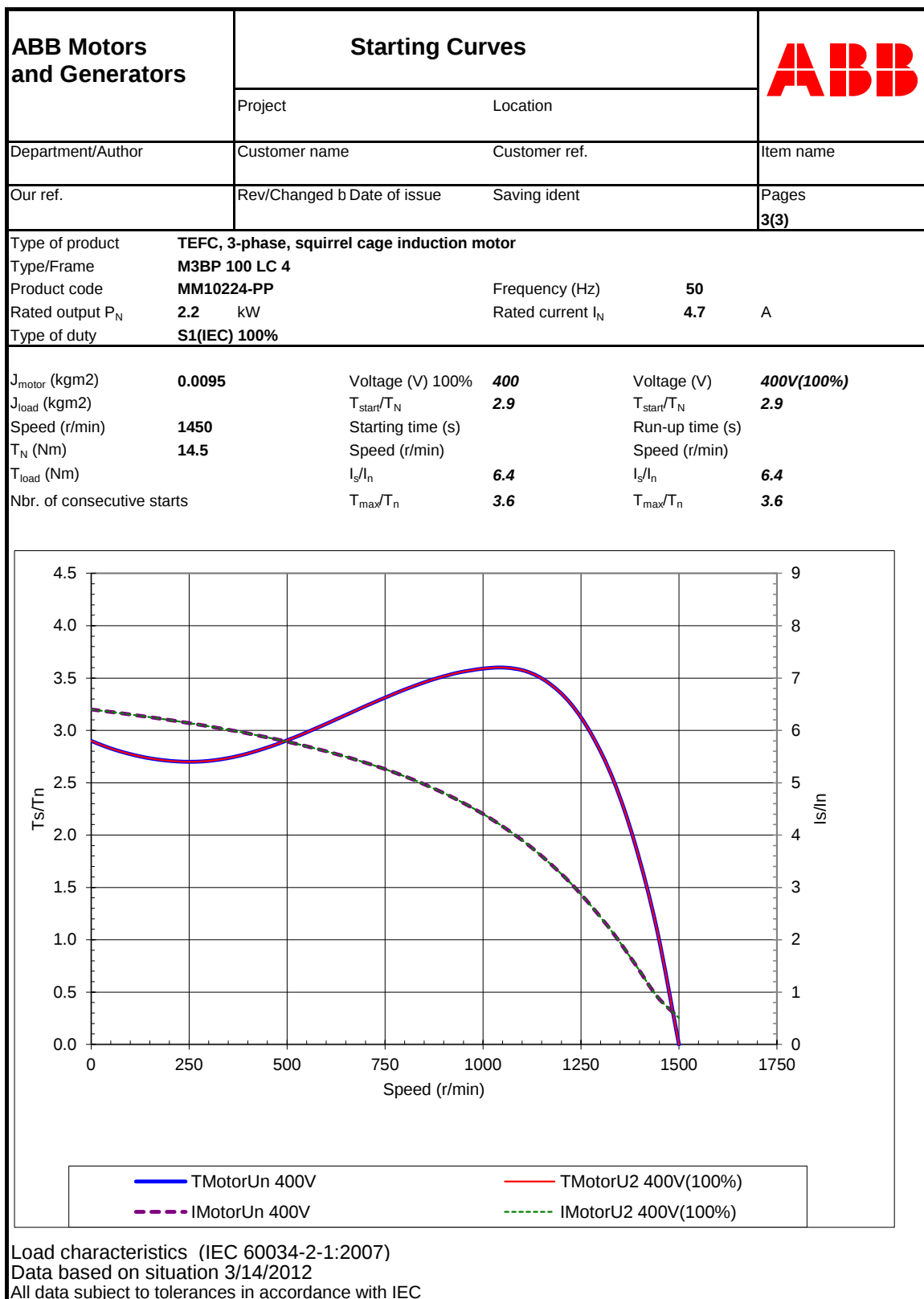


ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident		Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM10224-PP (3GBP102323-ASB+332)			
3	Type/Frame	M3BP 100 LC 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	2.2	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	1755	r/min		
11	Rated current I _N	4	A		
12	No-load current	2.3	A		
13	Starting current I _s /I _N	7.2		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	12	Nm		
15	Locked rotor torque T _S /T _N	3			
16	Maximum torque T _{max} /T _N	4.3			
17	Minimum torque T _{min} /T _N	2.7			
18	Speed at minimum torque	306	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	4	87.6 / IE2	0.77
21		75	3.4	87.1	0.69
22		50	2.8	84.6	0.57
23		Start	29.4		0.59
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	6206-2Z/C3 - 6205-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	63	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.00948	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	6	kg		
42	Total weight of motor	36	kg		
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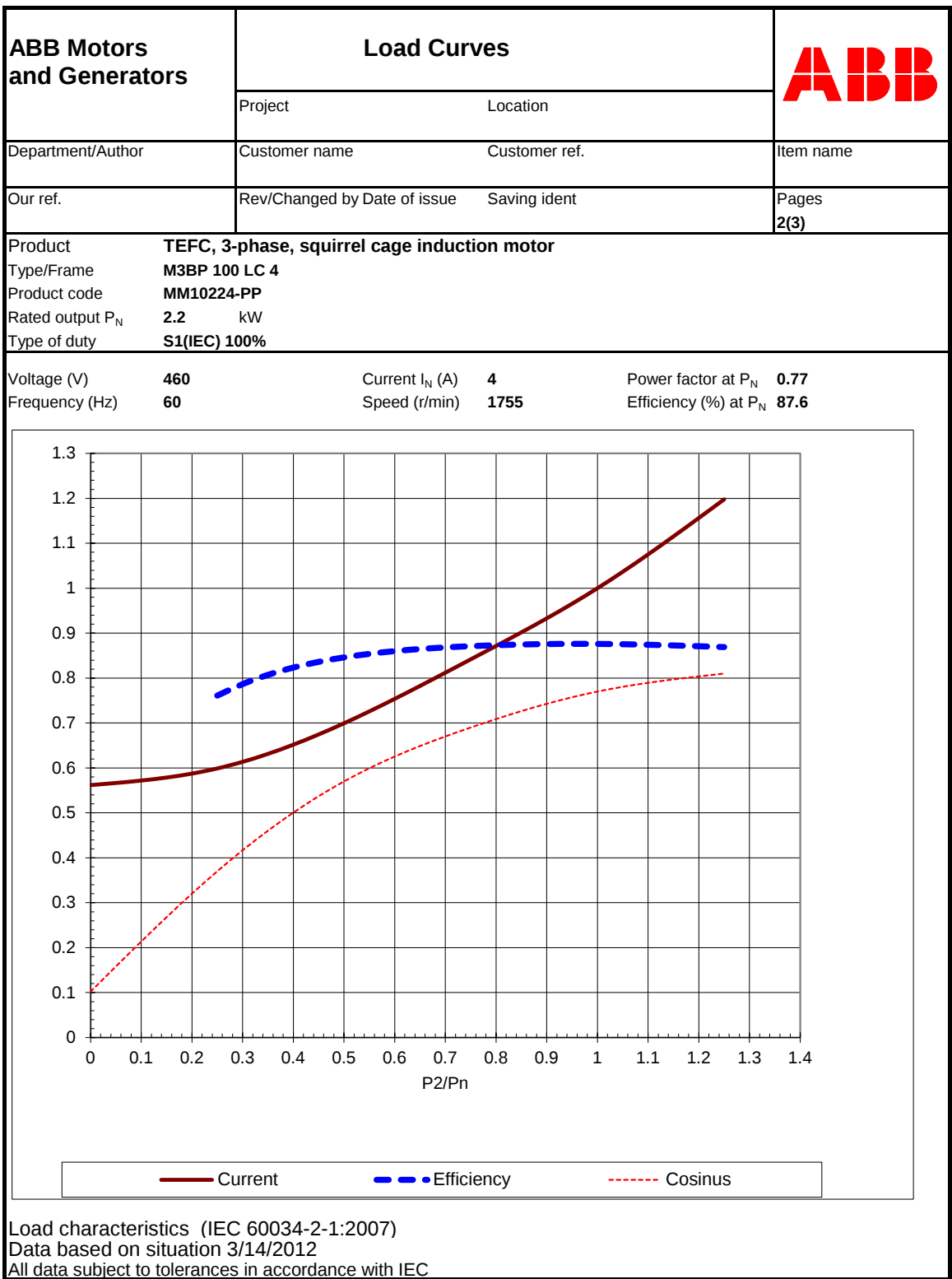
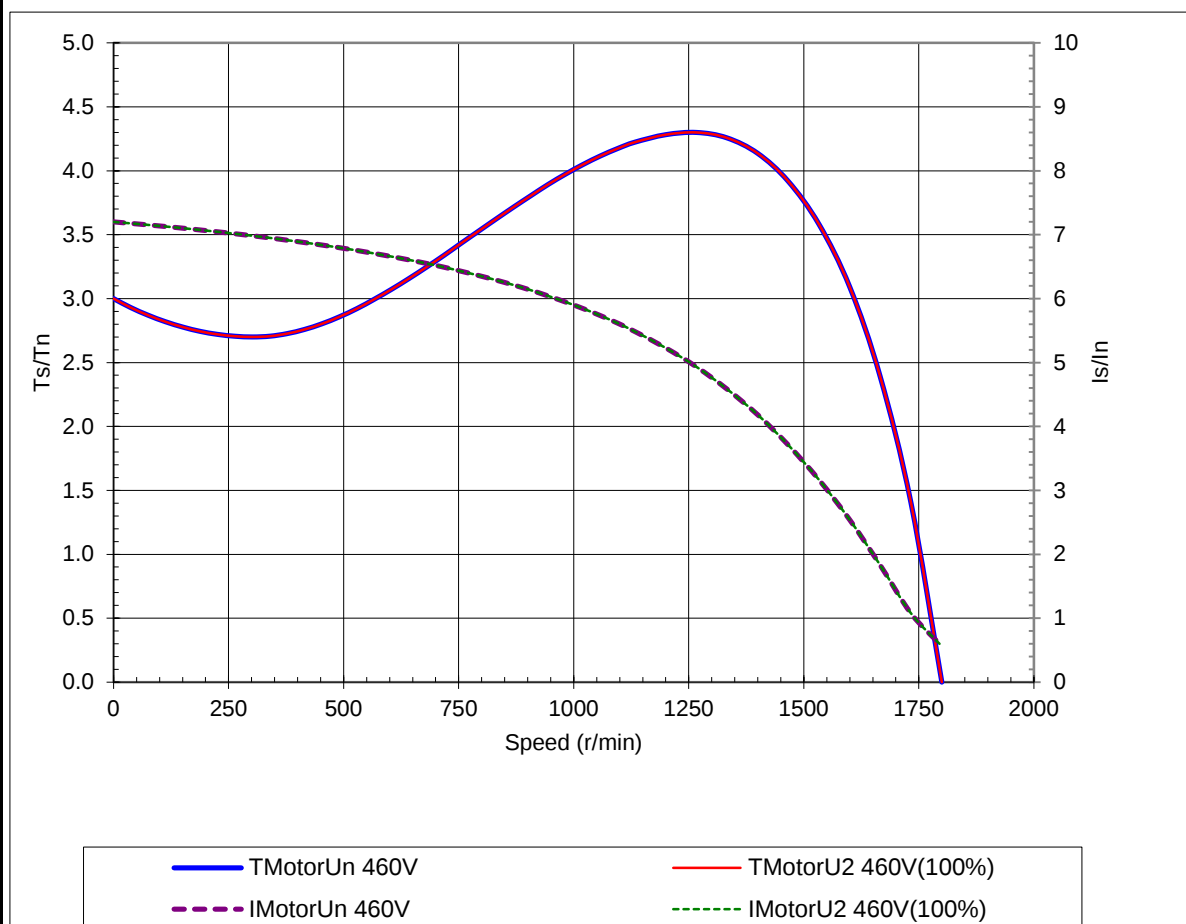


ABB Motors and Generators	Starting Curves		ABB
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b	Date of issue	Saving ident
			Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 100 LC 4		
Product code	MM10224-PP	Frequency (Hz)	60
Rated output P_N	2.2 kW	Rated current I_N	4 A
Type of duty	S1(IEC) 100%		

J_{motor} (kgm ²)	0.0095	Voltage (V) 100%	460	Voltage (V)	460V(100%)
J_{load} (kgm ²)		T_{start}/T_N	3	T_{start}/T_N	3
Speed (r/min)	1755	Starting time (s)		Run-up time (s)	
T_N (Nm)	12	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	7.2	I_s/I_n	7.2
Nbr. of consecutive starts		T_{max}/T_n	4.3	T_{max}/T_n	4.3



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