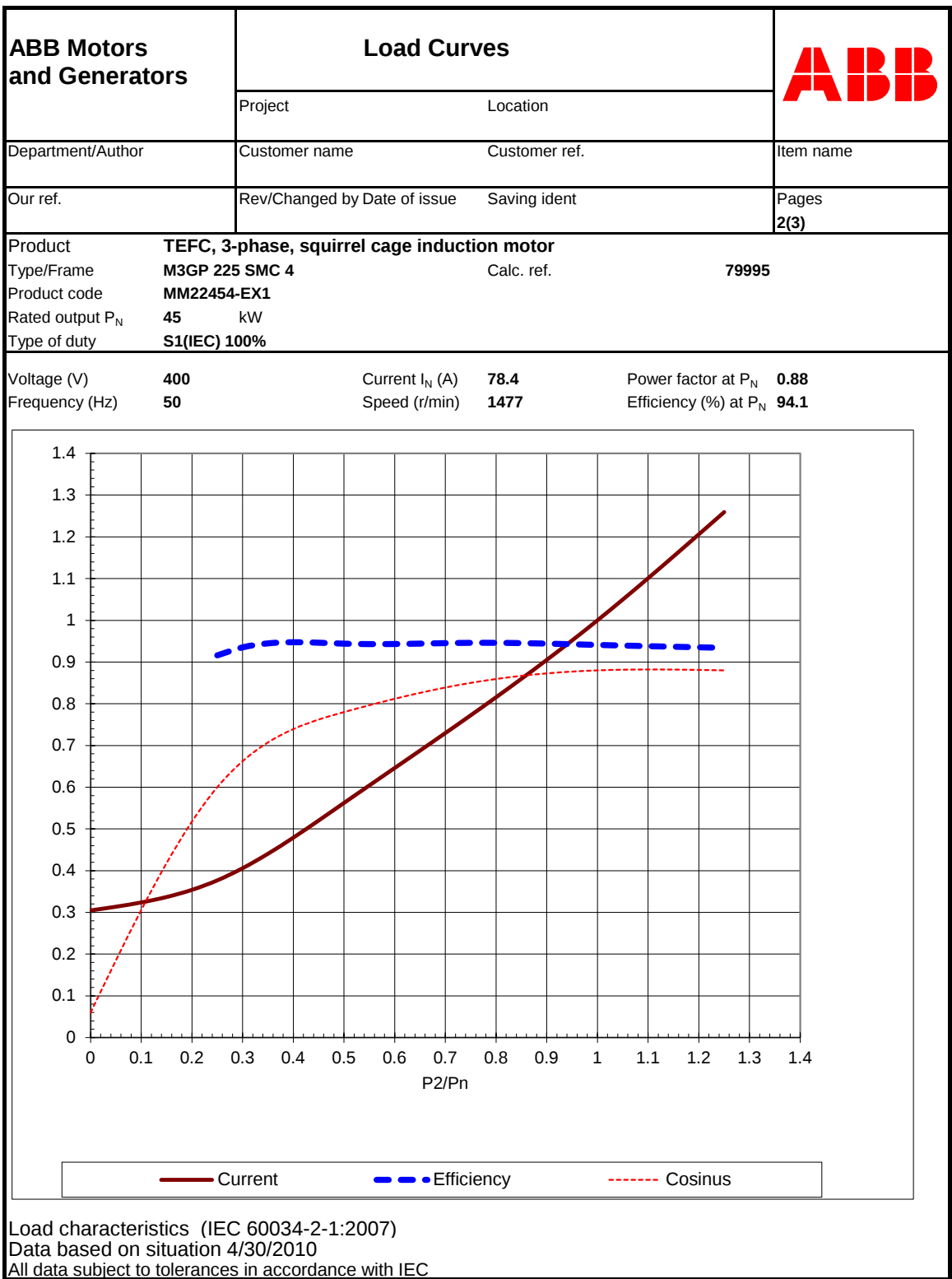


ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident		Pages 1(3)

No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM22454-EX1 (3GGP222230-ADG+332)				
3	Type/Frame	M3GP 225 SMC 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	45	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	1477	r/min			
11	Rated current I _N	78.4	A			
12	No-load current	24	A			
13	Starting current I _s /I _N	7.6		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T _N	291	Nm			
15	Locked rotor torque T _s /T _N	3.2				
16	Maximum torque T _{max} /T _N	2.7				
17	Minimum torque T _{min} /T _N	2.4				
18	Speed at minimum torque	1050	r/min			
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor	
20	PLL determined from residual loss	100	78.4	94.1 / IE2	0.88	
21		75	60.5	94.6	0.85	
22		50	44.1	94.4	0.78	
23		Start	596		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	6313/C3 - 6312/C3				
32	Type of Grease	Lithium based				
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load		
34	Moment of inertia J = ¼ GD2	0.49	kg-m2			
35	Balancing	Half Key				
36	Vibration class	Grade A				
37	Position of terminal box	Top				
38	Terminal box entries; no, dims.	2xM50x1.5 + 2xM20x1.5				
39	Number of power terminals	6				
40	Direction of rotation	CW or CCW				
41	Weight of rotor	92	kg			
42	Total weight of motor	390	kg			
43						
Ex-motors						
44	Type of protection	* Ex nA II T3				
45						
Variant Codes / Definition 332 = Baldor catalog number						
Remarks:						
Data based on situation 4/30/2010 All data subject to tolerances in accordance with IEC Guaranteed values on request * For more information on the Atex/IECEx rating, please contact your local Baldor representative.						



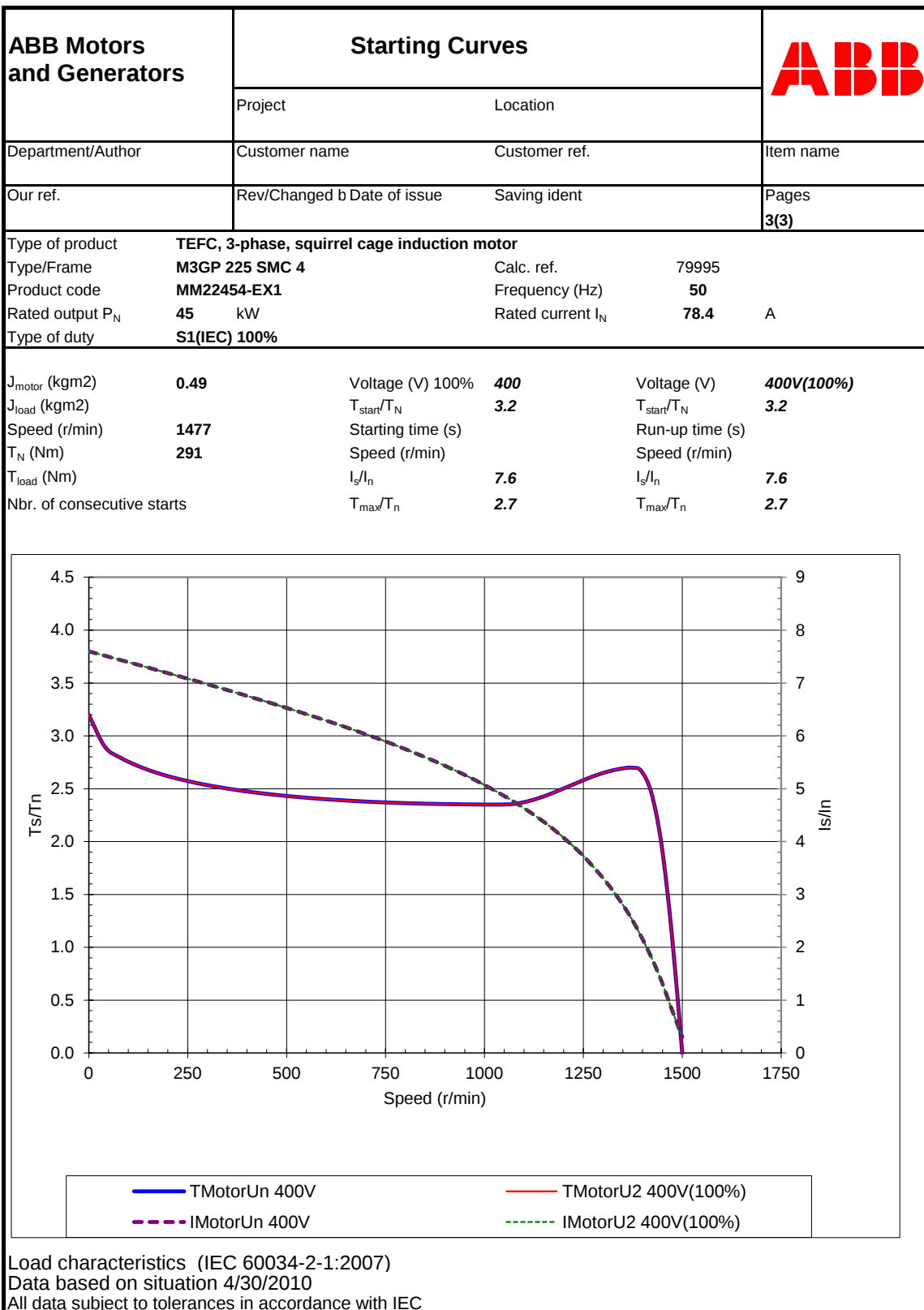
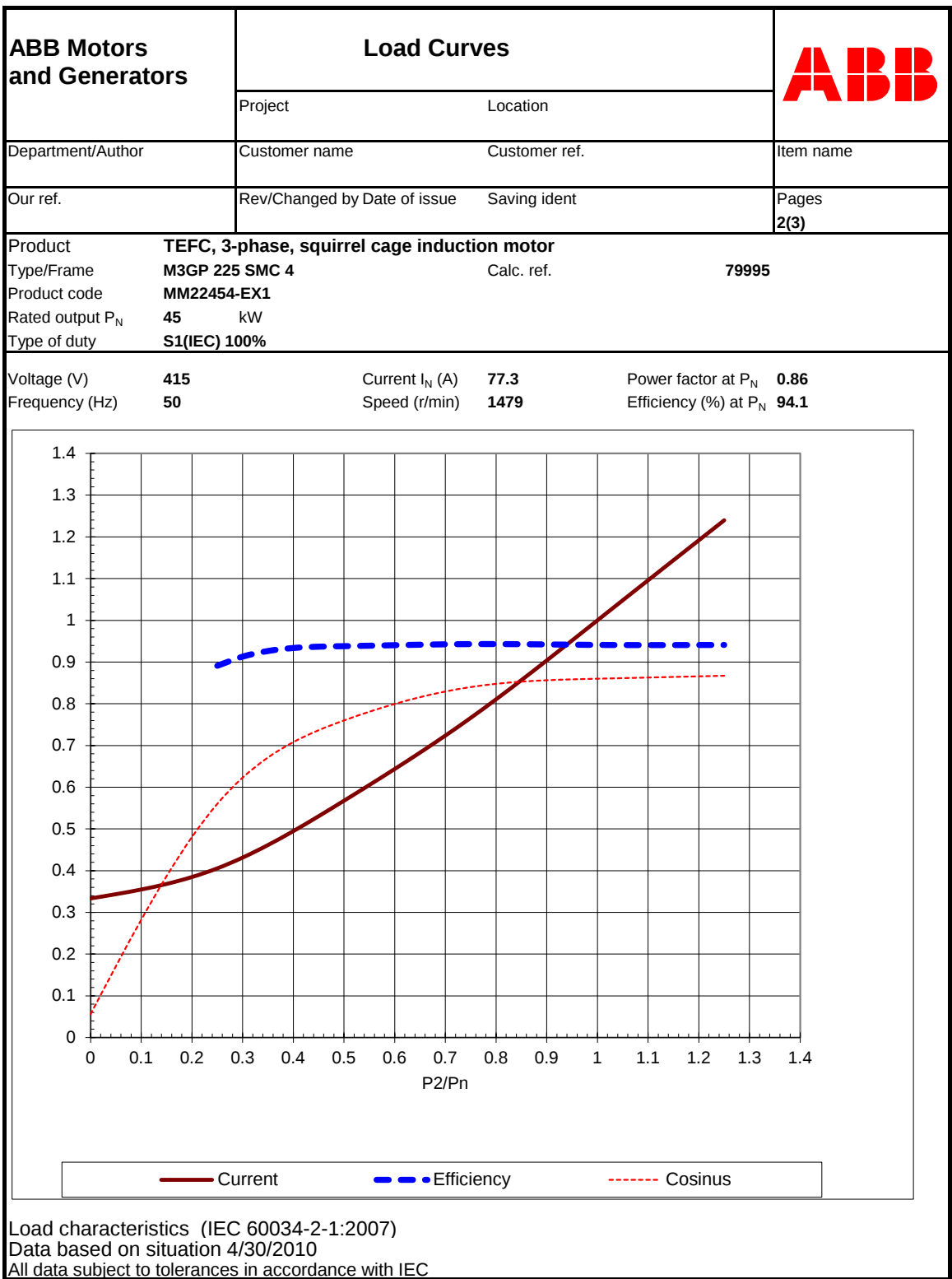


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
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No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM22454-EX1 (3GGP222230-ADG+332)			
3	Type/Frame	M3GP 225 SMC 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	45	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	1479	r/min		
11	Rated current I _N	77.3	A		
12	No-load current	26	A		
13	Starting current I _s /I _N	8.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	291	Nm		
15	Locked rotor torque T _S /T _N	3.4			
16	Maximum torque T _{max} /T _N	2.9			
17	Minimum torque T _{min} /T _N	2.5			
18	Speed at minimum torque	1050	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	77.3	94.1 / IE2	0.86
21		75	59.2	94.3	0.84
22		50	43.9	93.8	0.76
23		Start	626		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	6313/C3 - 6312/C3			
32	Type of Grease	Lithium based			
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.49	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM50x1.5 + 2xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	92	kg		
42	Total weight of motor	390	kg		
43					
Ex-motors					
44	Type of protection	* Ex nA II T3			
45					
Variant Codes / Definition					
	332 = Baldor catalog number				
Remarks:					
Data based on situation 4/30/2010					
All data subject to tolerances in accordance with IEC					
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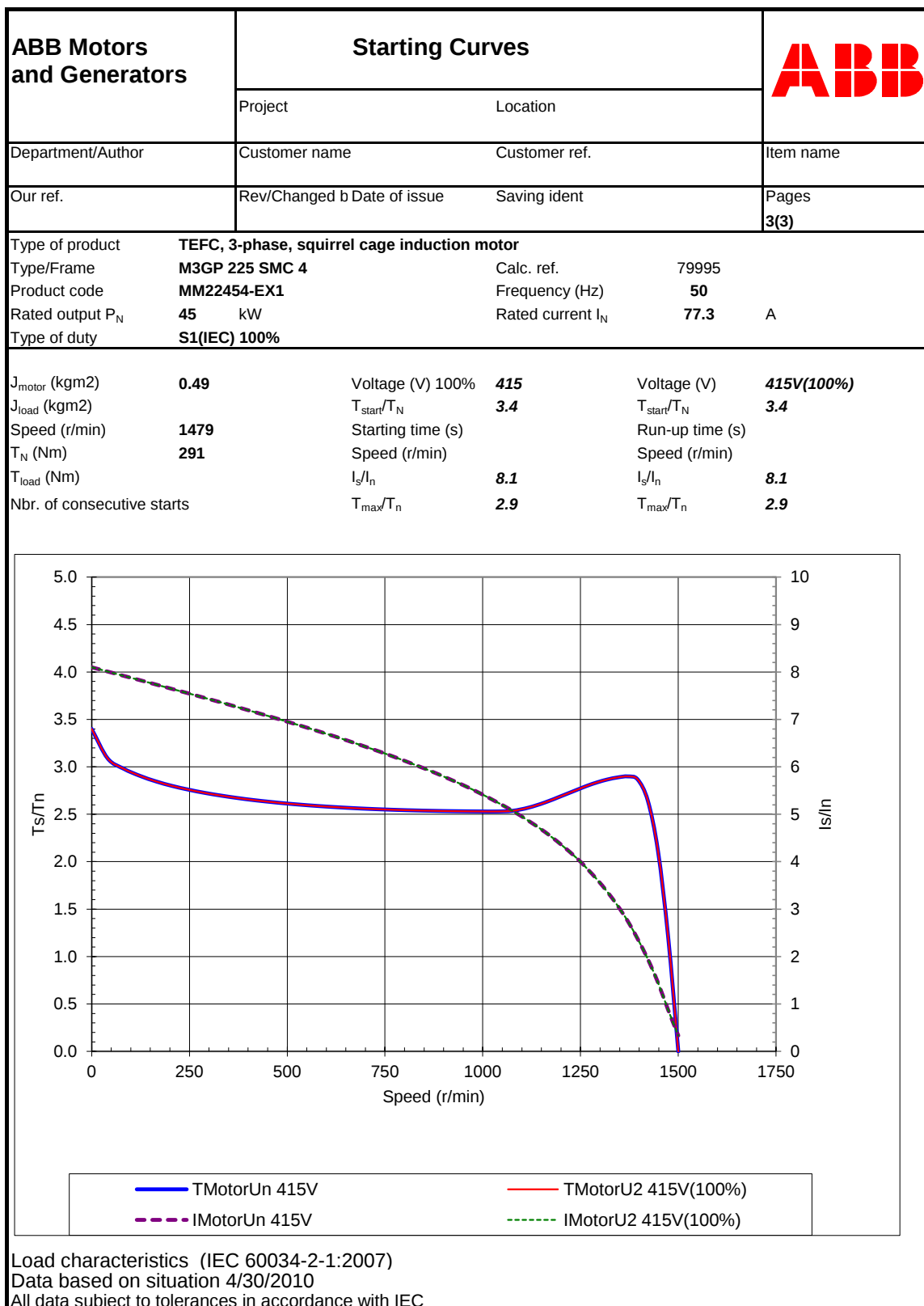


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name		Customer ref.		Item name
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No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM22454-EX1 (3GGP222230-ADG+332)			
3	Type/Frame	M3GP 225 SMC 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	45	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	1477	r/min		
11	Rated current I _N	45.4	A		
12	No-load current	13.9	A		
13	Starting current I _s /I _N	7.6		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	291	Nm		
15	Locked rotor torque T _S /T _N	3.2			
16	Maximum torque T _{max} /T _N	2.7			
17	Minimum torque T _{min} /T _N	2.4			
18	Speed at minimum torque	1050	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	45.4	94.1 / IE2	0.88
21		75	35.1	94.6	0.85
22		50	25.5	94.4	0.78
23		Start	345		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	6313/C3 - 6312/C3			
32	Type of Grease	Lithium based			
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.49	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM50x1.5 + 2xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	92	kg		
42	Total weight of motor	390	kg		
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Ex-motors					
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