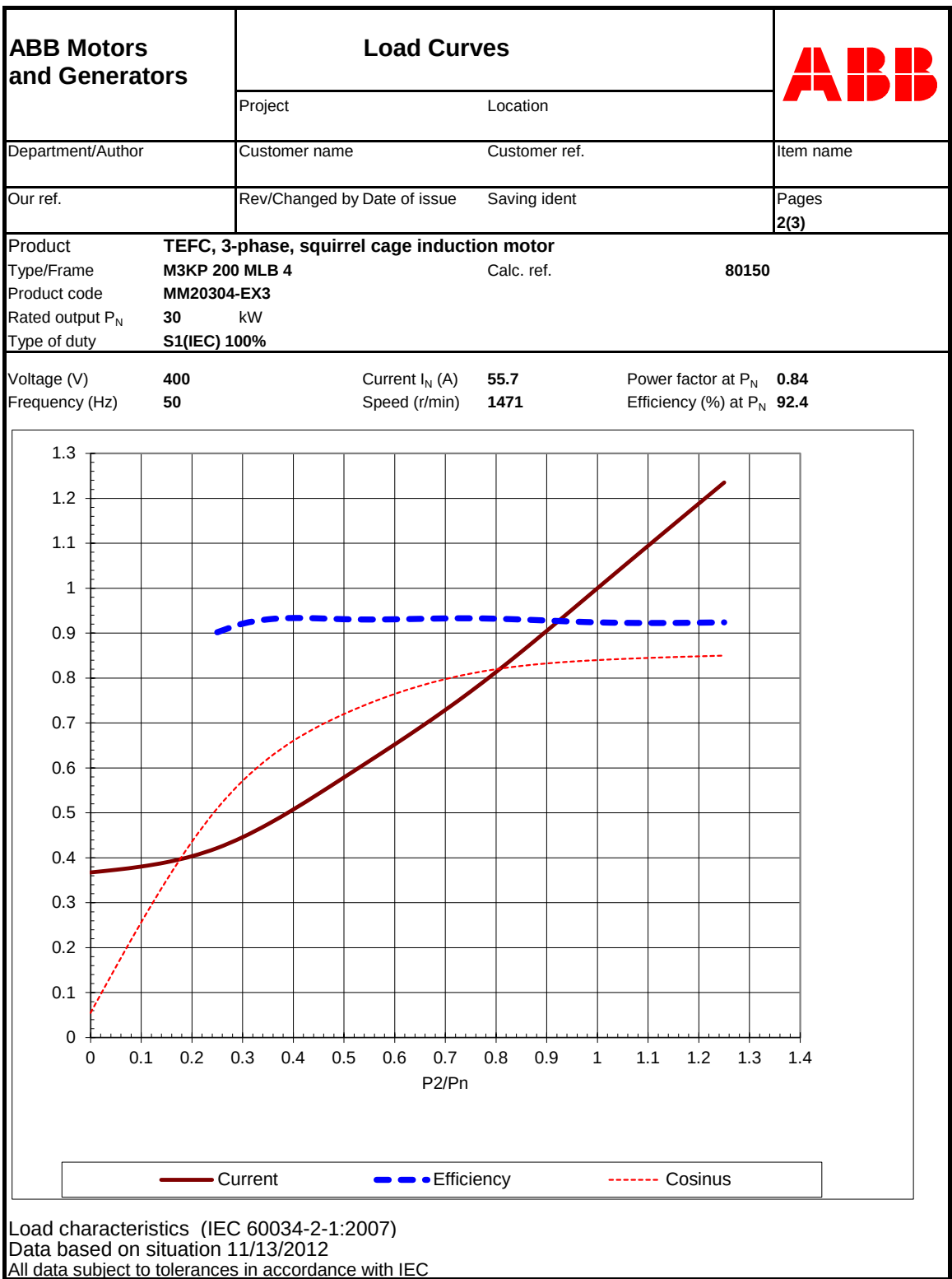
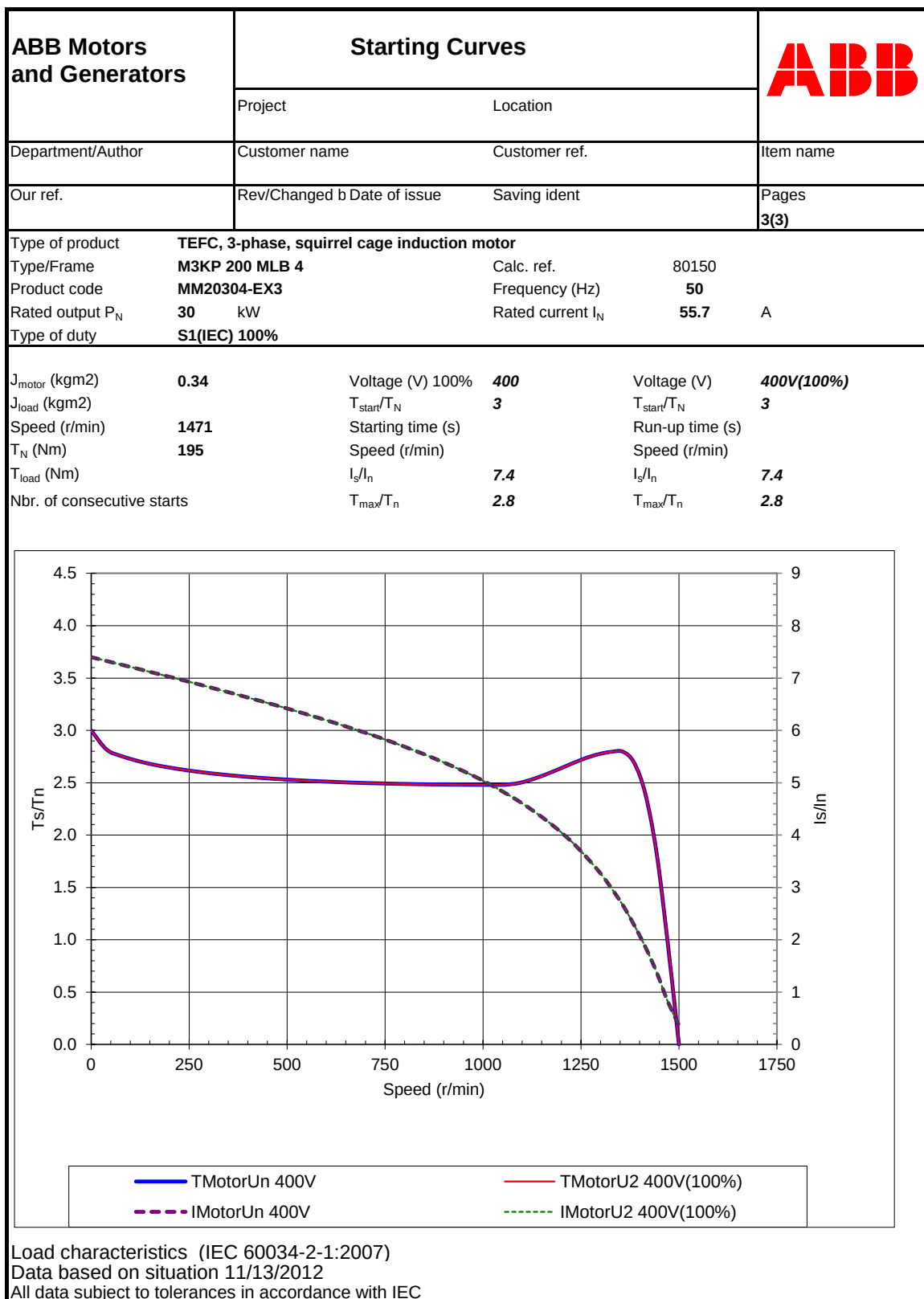
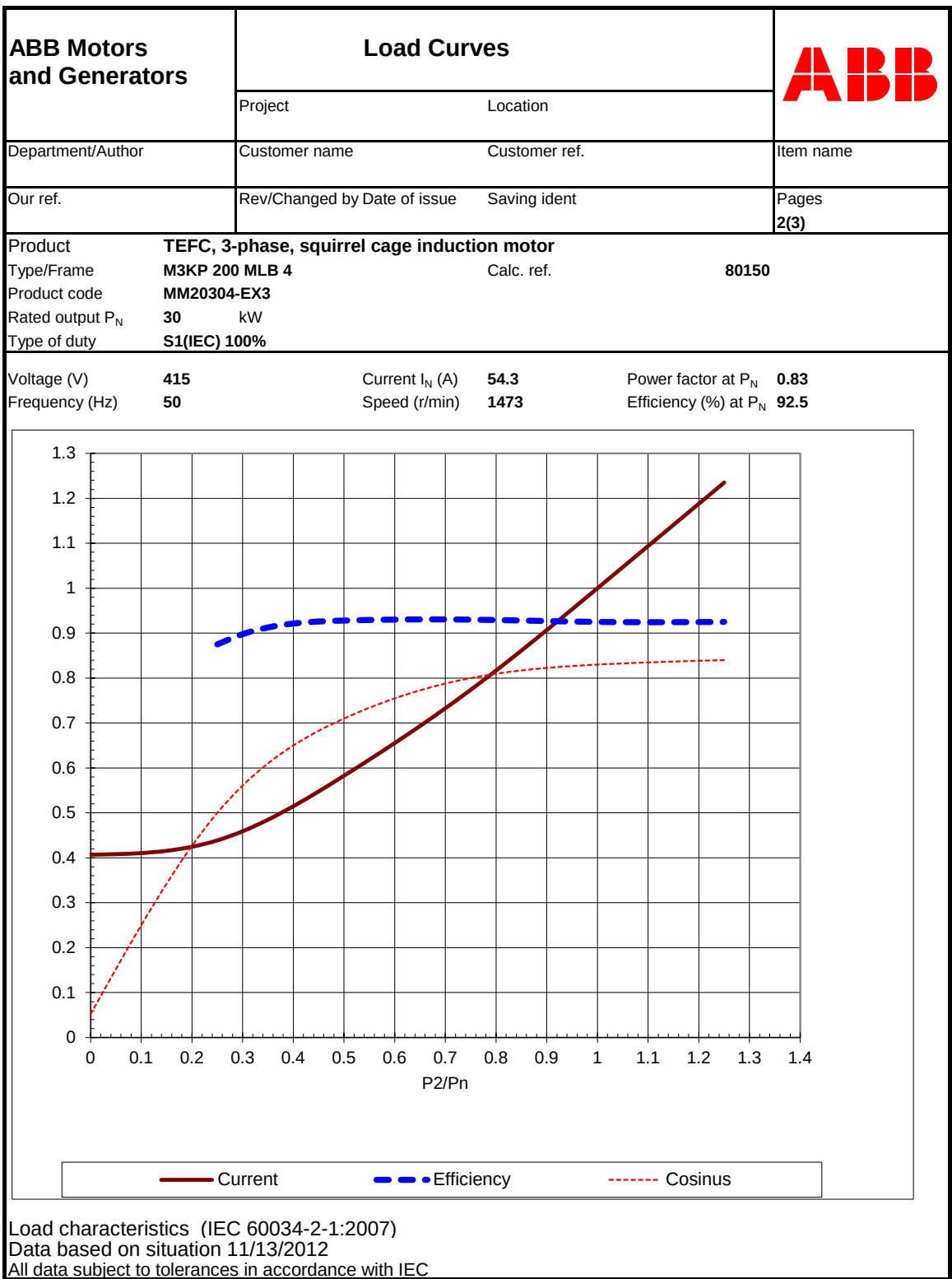


ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident		Pages 1(3)

No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM20304-EX3 (3GKP202420-ADG+332+461)				
3	Type/Frame	M3KP 200 MLB 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	30	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	1471	r/min			
11	Rated current I _N	55.7	A			
12	No-load current	21	A			
13	Starting current I _s /I _N	7.4		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T _N	195	Nm			
15	Locked rotor torque T _S /T _N	3				
16	Maximum torque T _{max} /T _N	2.8				
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	55.7	92.4 / IE2	0.84	
21		75	42.9	93.3	0.81	
22		50	32.2	93.1	0.72	
23		Start	412		0.5	
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	6312/C3 - 6310/C3				
32	Type of Grease	Lithium based				
33	Sound pressure level (LP dB(A) 1m)	61	dB(A)	at load		
34	Moment of inertia J = ¼ GD2	0.34	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	73	kg			
42	Total weight of motor	320	kg			
43						
Ex-motors						
44	Type of protection	*Ex de IIC T4				
45						
Variant Codes / Definition						
	332 = Baldor catalog number					
	461 = Exde design, group IIC					
Remarks:						
Data based on situation 11/13/2012						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						







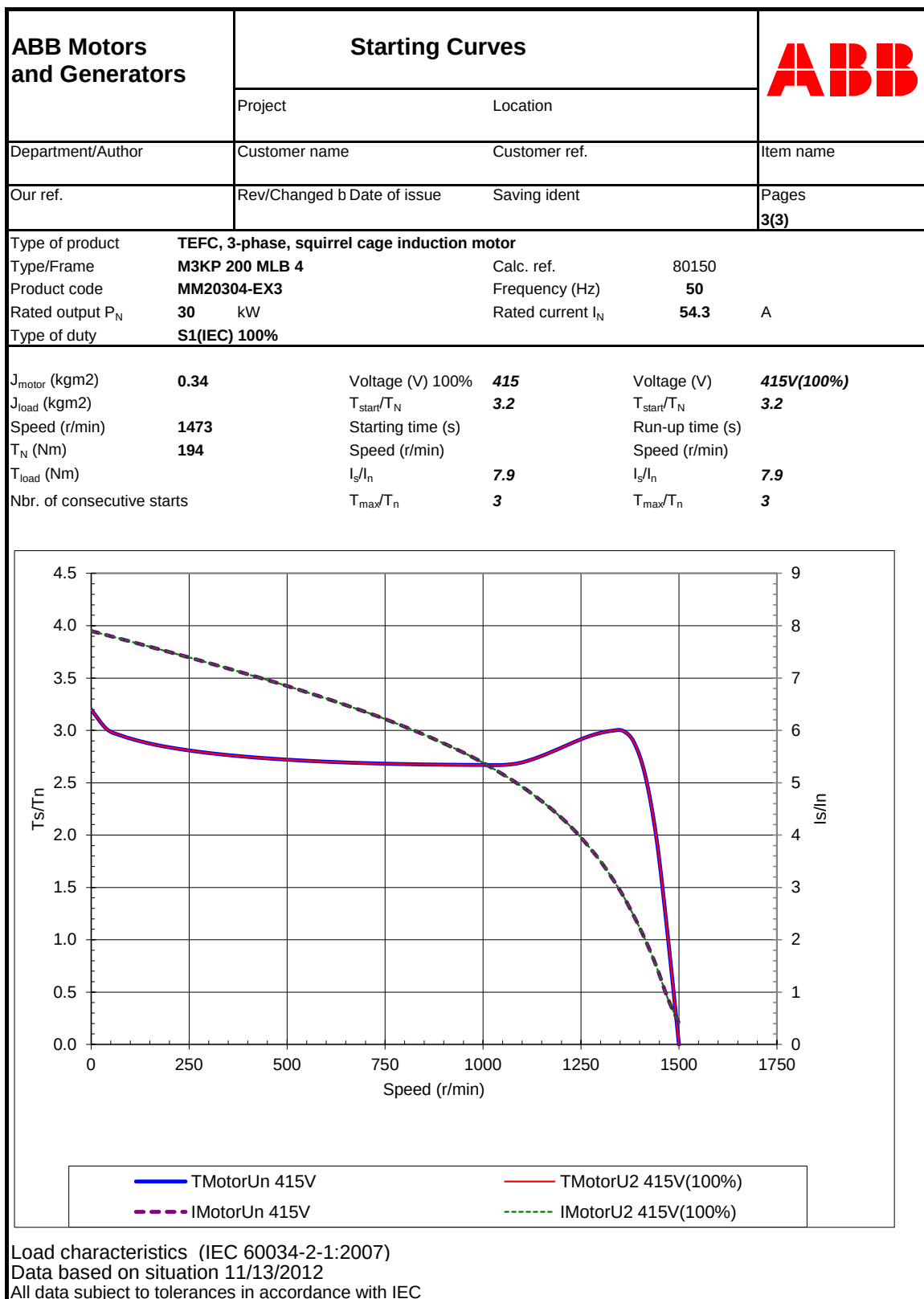


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name		Customer ref.		Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident		Pages 1(3)
No.	Definition	Data	Unit	Remarks	
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2	Product code	MM20304-EX3 (3GKP202420-ADG+332+461)			
3	Type/Frame	M3KP 200 MLB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	30	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	1471	r/min		
11	Rated current I _N	32.3	A		
12	No-load current	11.9	A		
13	Starting current I _s /I _N	7.4		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	195	Nm		
15	Locked rotor torque T _S /T _N	3			
16	Maximum torque T _{max} /T _N	2.8			
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	32.3	92.4 / IE2	0.84
21		75	24.9	93.3	0.81
22		50	18.7	93.1	0.72
23		Start	239		0.5
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	6312/C3 - 6310/C3			
32	Type of Grease	Lithium based			
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41	Weight of rotor	73	kg		
42	Total weight of motor	320	kg		
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44	Type of protection	*Ex de IIC T4			
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Remarks:					
Data based on situation 11/13/2012					
All data subject to tolerances in accordance with IEC					
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