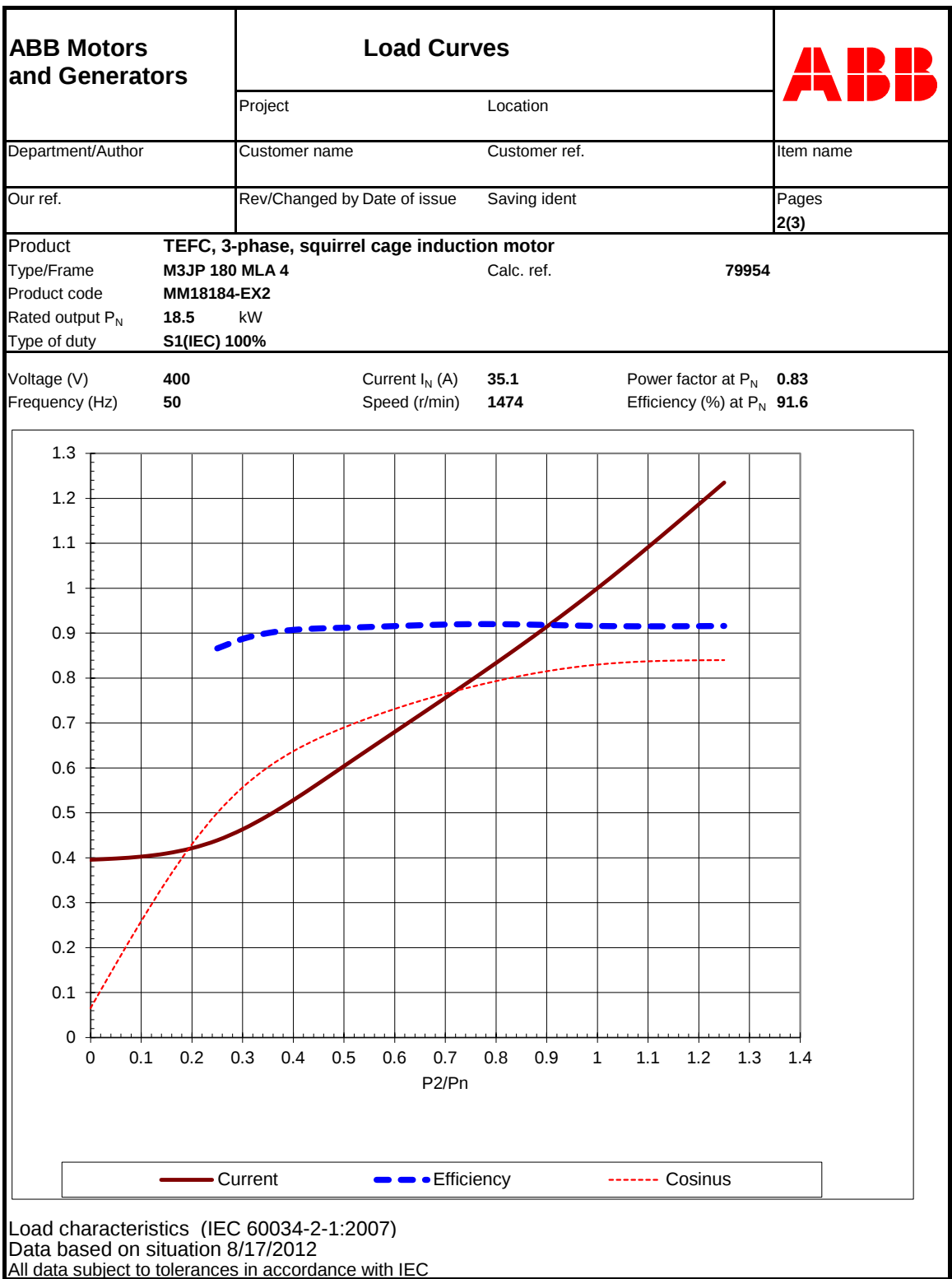


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM18184-EX2 (3GJP182410-ADH+332+461)			
3	Type/Frame	M3JP 180 MLA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	18.5	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	1474	r/min		
11	Rated current I _N	35.1	A		
12	No-load current	13.9	A		
13	Starting current I _s /I _N	7.2		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	120	Nm		
15	Locked rotor torque T _s /T _N	2.6			
16	Maximum torque T _{max} /T _N	3.1			
17	Minimum torque T _{min} /T _N	2.2			
18	Speed at minimum torque	270	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	35.1	91.6 / IE2	0.83
21		75	27.9	92	0.78
22		50	21.2	91.2	0.69
23		Start	252		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	6310/C3 - 6310/C3			
32	Type of Grease	Lithium based			
33	Sound pressure level (LP dB(A) 1m)	62	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.19	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM40x1.5 + 2xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	52	kg		
42	Total weight of motor	277	kg		
43					
Ex-motors					
44	Type of protection	*Ex d IIC T4			
45					
Variant Codes / Definition					
	332 = Baldor catalog number				
	461 = Exd design, group IIC				
Remarks:					
Data based on situation 8/17/2012					
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.					



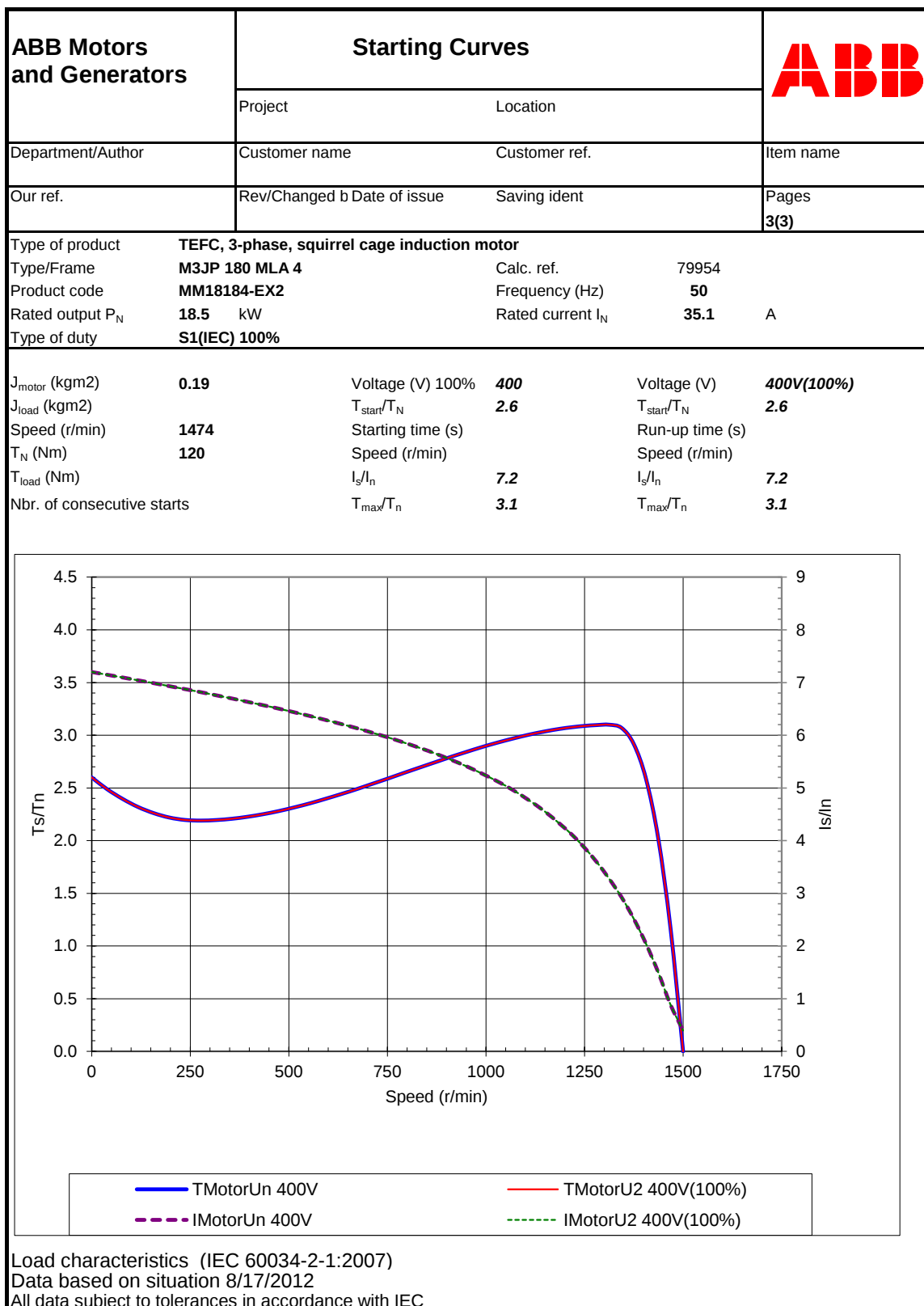
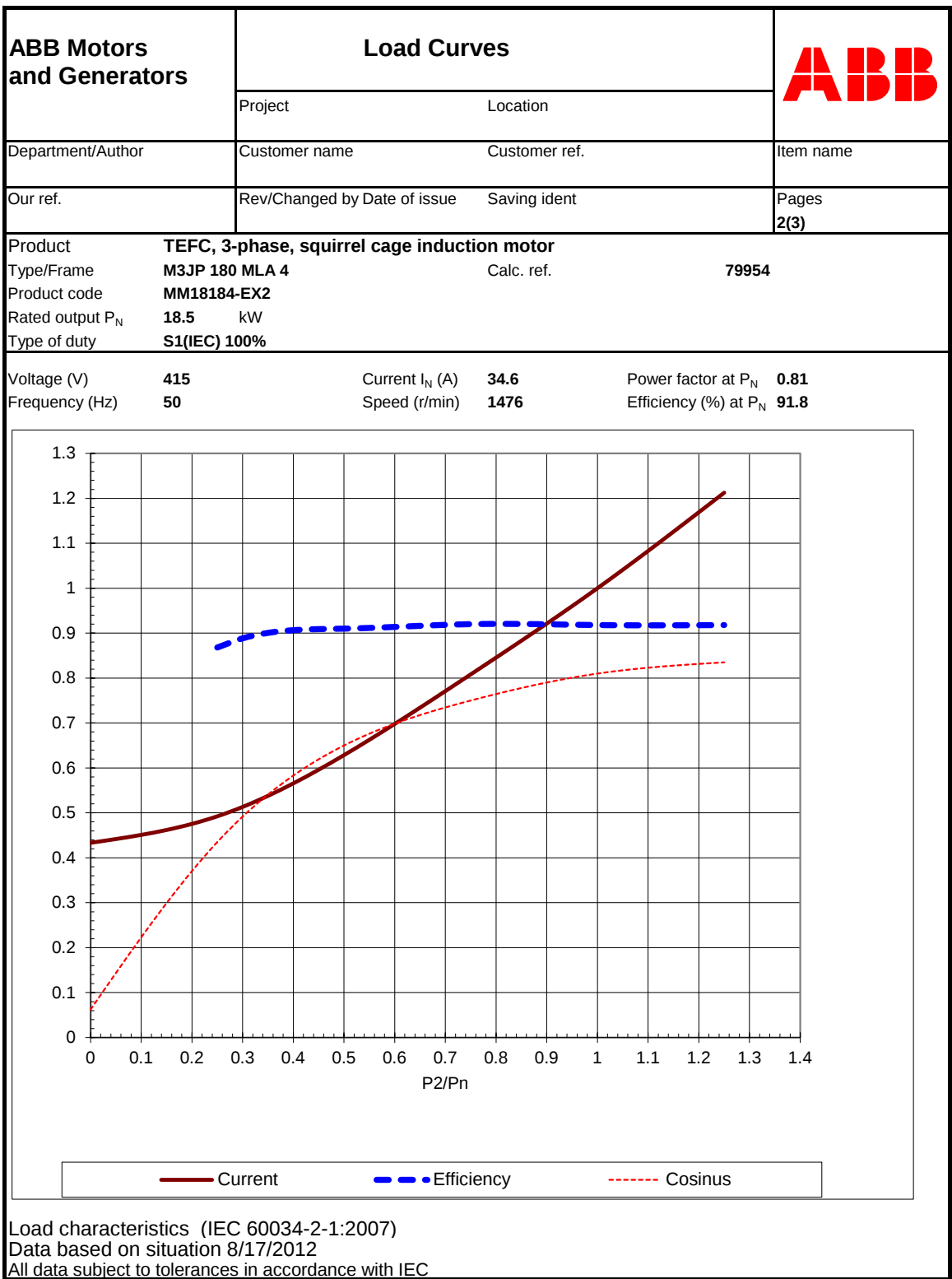


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM18184-EX2 (3GJP182410-ADH+332+461)			
3	Type/Frame	M3JP 180 MLA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	18.5	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	1476	r/min		
11	Rated current I _N	34.6	A		
12	No-load current	15	A		
13	Starting current I _s /I _N	7.6		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	120	Nm		
15	Locked rotor torque T _S /T _N	2.9			
16	Maximum torque T _{max} /T _N	3.3			
17	Minimum torque T _{min} /T _N	2.4			
18	Speed at minimum torque	270	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	34.6	91.8 / IE2	0.81
21		75	27.9	92	0.75
22		50	21.7	91	0.65
23		Start	263		0.51
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	6310/C3 - 6310/C3			
32	Type of Grease	Lithium based			
33	Sound pressure level (LP dB(A) 1m)	62	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.19	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM40x1.5 + 2xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	52	kg		
42	Total weight of motor	277	kg		
43					
Ex-motors					
44	Type of protection	*Ex d IIC T4			
45					
Variant Codes / Definition					
	332 = Baldor catalog number				
	461 = Exd design, group IIC				
Remarks:					
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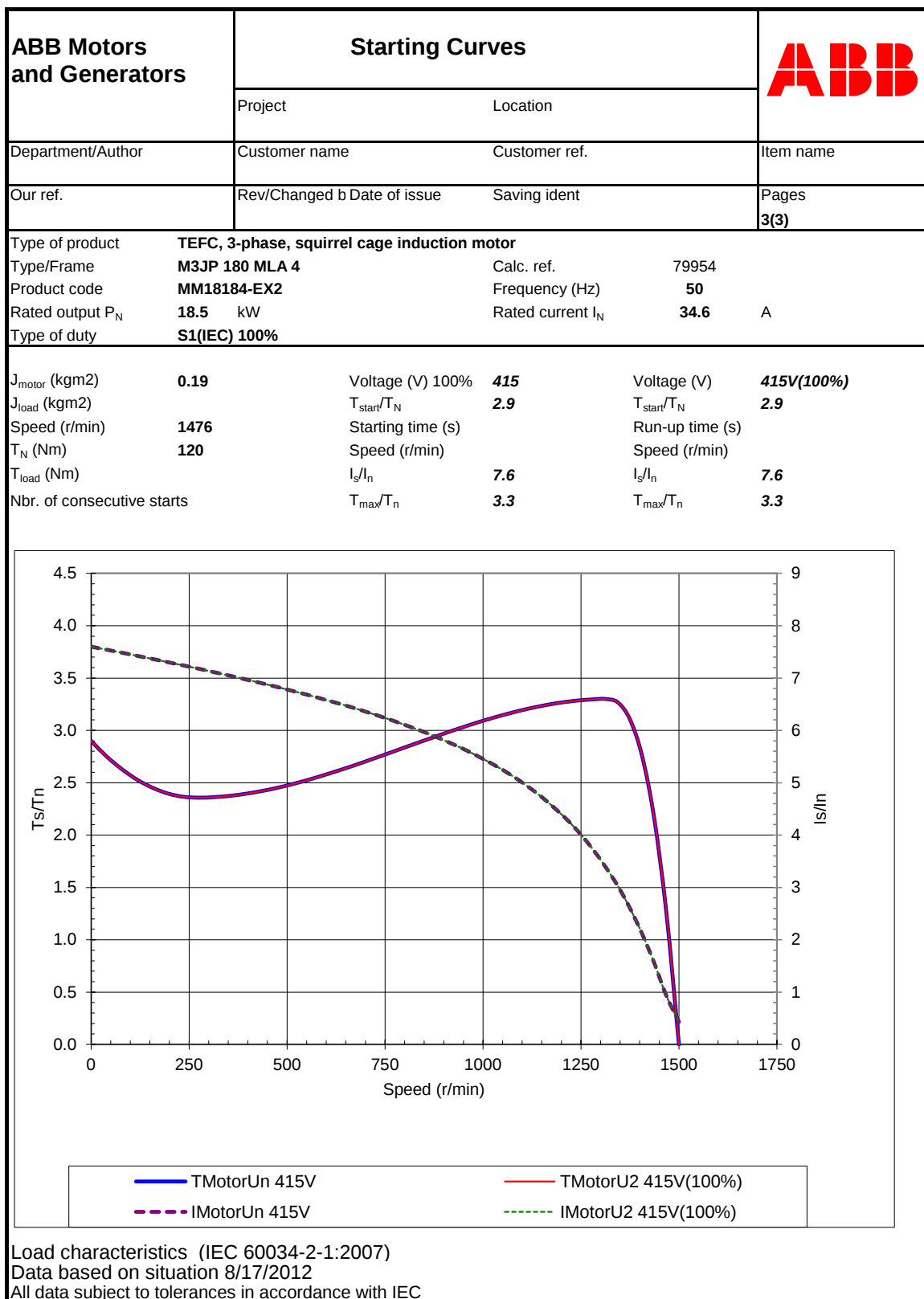


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		Project	Location		
Department/Author		Customer name	Customer ref.	Item name	
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM18184-EX2 (3GJP182410-ADH+332+461)			
3	Type/Frame	M3JP 180 MLA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	18.5	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	1474	r/min		
11	Rated current I _N	20.3	A		
12	No-load current	8.1	A		
13	Starting current I _s /I _N	7.2		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	120	Nm		
15	Locked rotor torque T _S /T _N	2.6			
16	Maximum torque T _{max} /T _N	3.1			
17	Minimum torque T _{min} /T _N	2.2			
18	Speed at minimum torque	270	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	20.3	91.6 / IE2	0.83
21		75	16.1	92	0.78
22		50	12.2	91.2	0.69
23		Start	146		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	6310/C3 - 6310/C3			
32	Type of Grease	Lithium based			
33	Sound pressure level (LP dB(A) 1m)	62	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.19	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM40x1.5 + 2xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	52	kg		
42	Total weight of motor	277	kg		
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