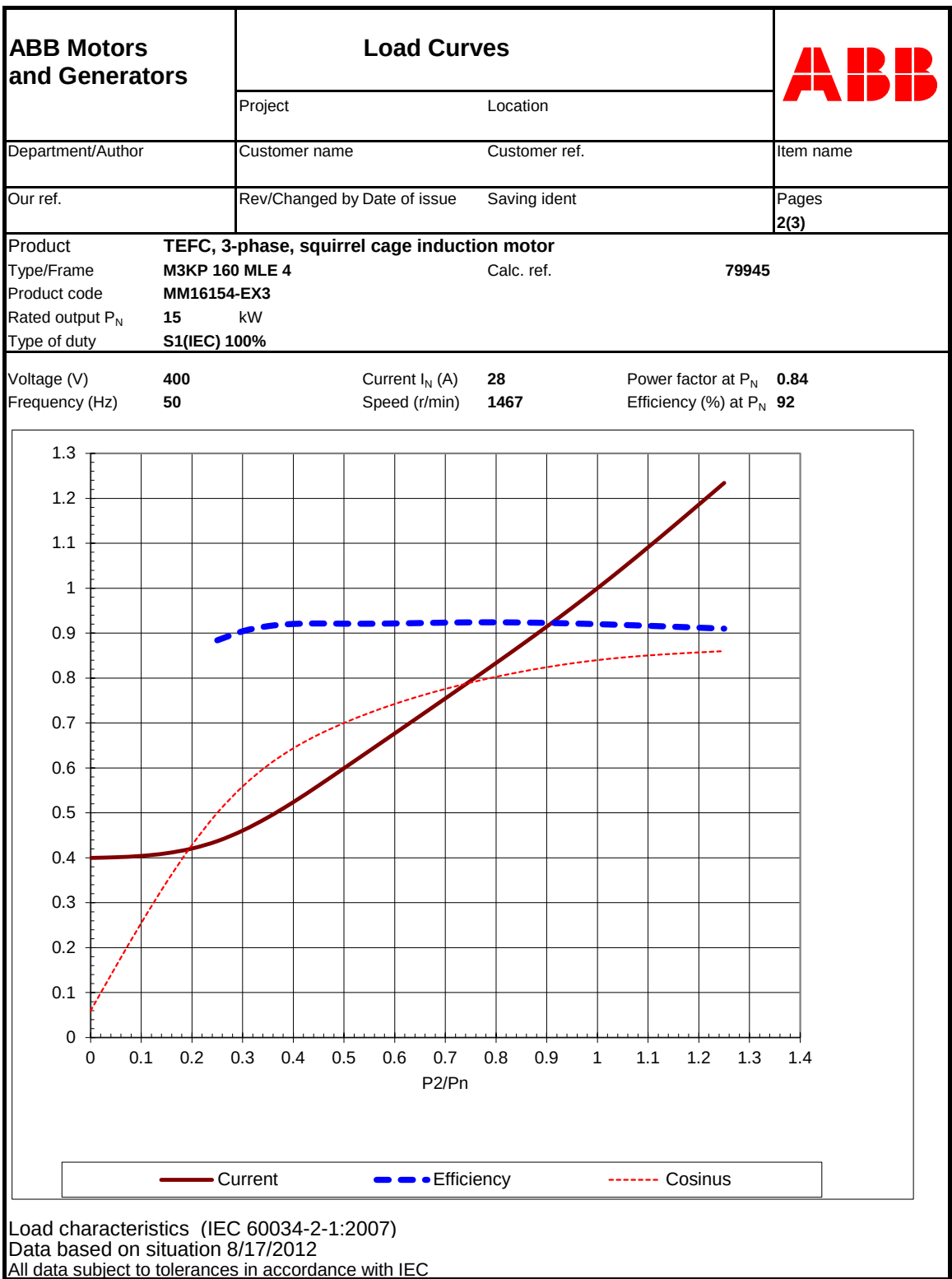


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM16154-EX3 (3GKP162450-ADH+332+461)		
3	Type/Frame	M3KP 160 MLE 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	15	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	1467	r/min	
11	Rated current I _N	28	A	
12	No-load current	11.2	A	
13	Starting current I _s /I _N	7.8		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	98	Nm	
15	Locked rotor torque T _s /T _N	3		
16	Maximum torque T _{max} /T _N	3.5		
17	Minimum torque T _{min} /T _N	2.3		
18	Speed at minimum torque	255	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	28	92.0 / IE2
21		75	22.2	92.4
22		50	16.7	92.1
23		Start	218	0.55
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	6309/C3 - 6309/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	0.13	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	46	kg	
42	Total weight of motor	249	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 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.				



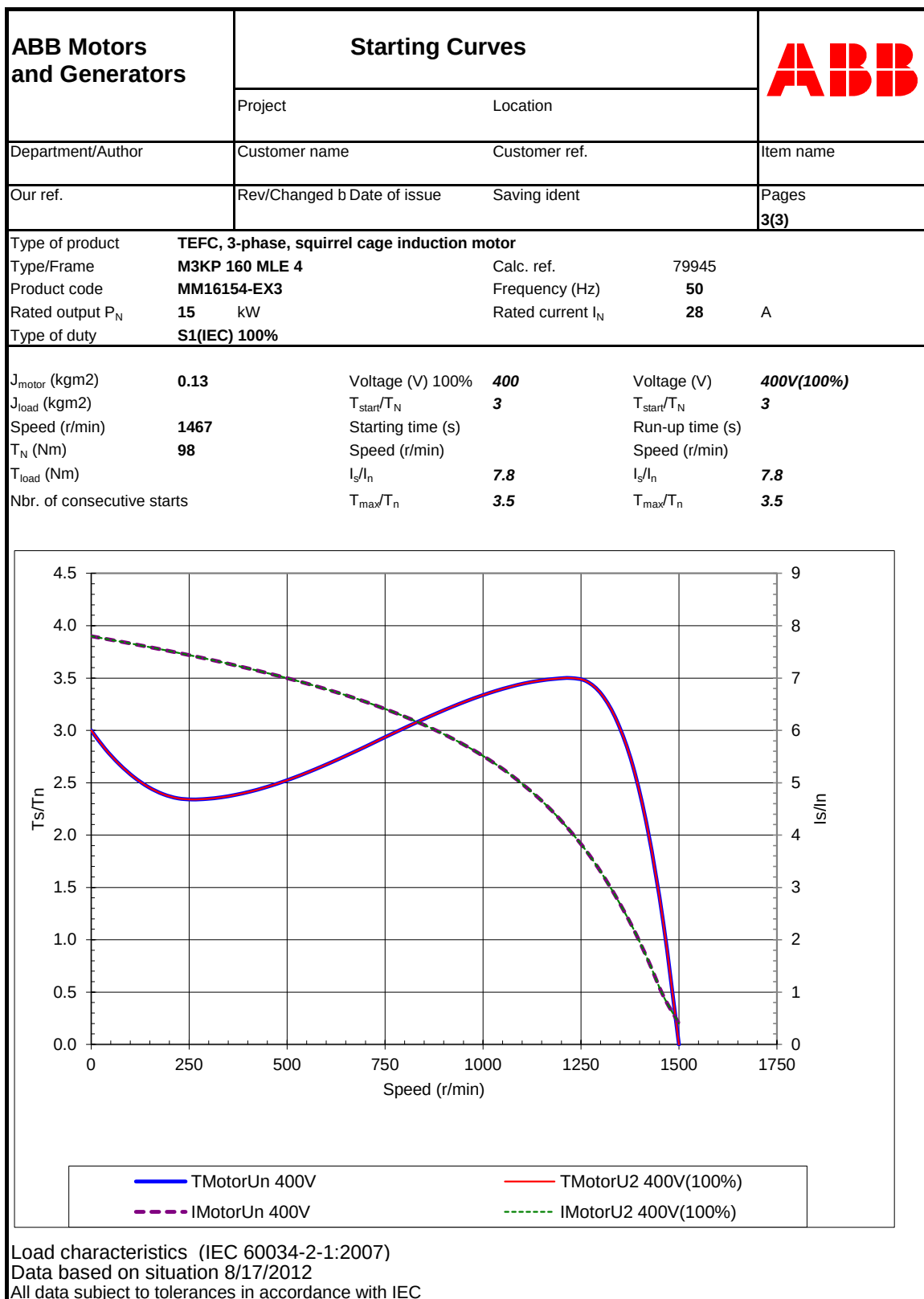
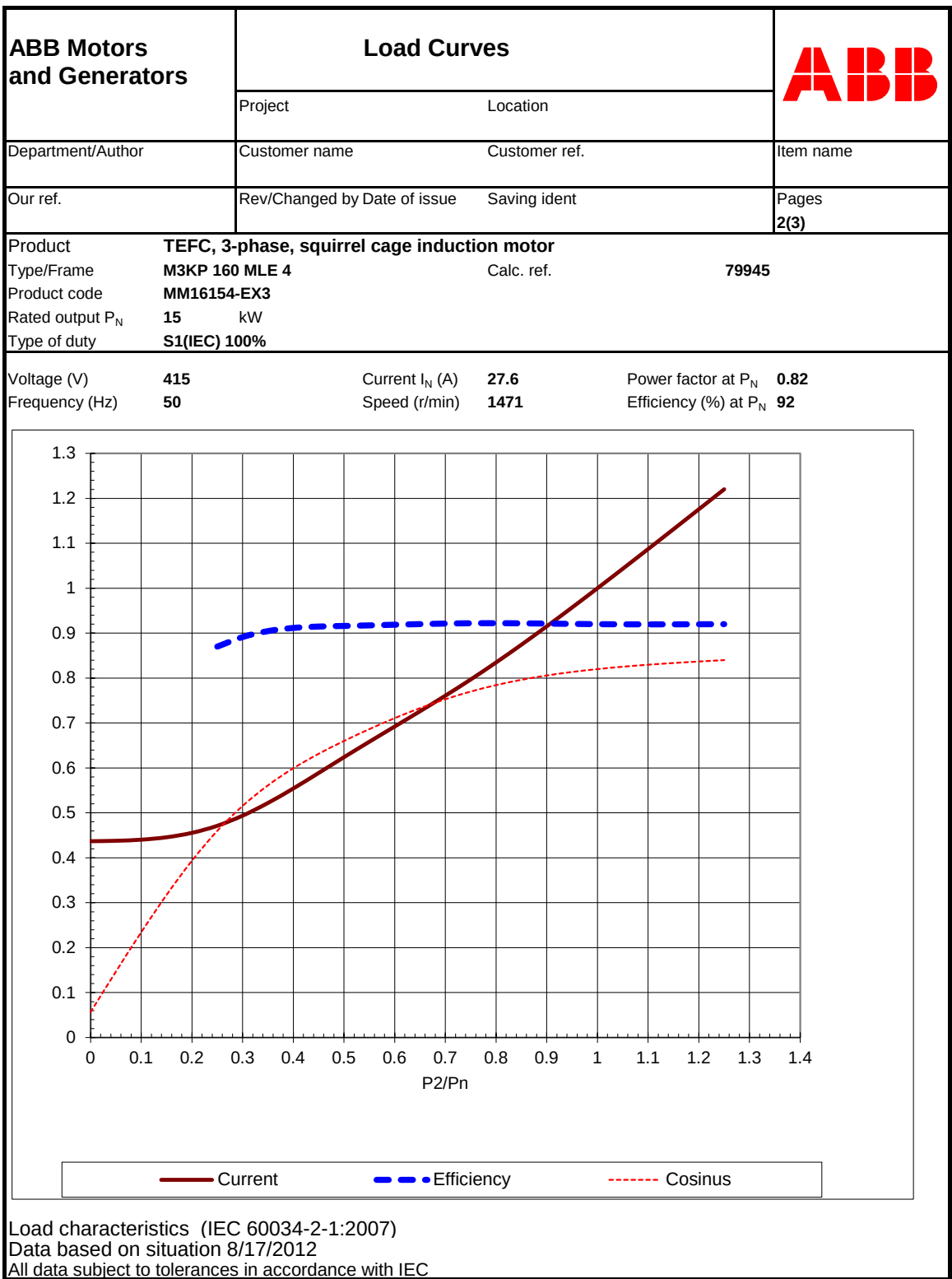


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM16154-EX3 (3GKP162450-ADH+332+461)		
3	Type/Frame	M3KP 160 MLE 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	15	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	1471	r/min	
11	Rated current I _N	27.6	A	
12	No-load current	12.1	A	
13	Starting current I _s /I _N	8.4		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	97	Nm	
15	Locked rotor torque T _S /T _N	3.2		
16	Maximum torque T _{max} /T _N	3.7		
17	Minimum torque T _{min} /T _N	2.5		
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	27.6	92.0 / IE2 0.82
21		75	22	92.2 0.77
22		50	17.2	91.6 0.66
23		Start	232	0.56
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	6309/C3 - 6309/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	0.13	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	46	kg	
42	Total weight of motor	249	kg	
43				
Ex-motors				
44	Type of protection	*Ex de IIC T4		
45				
Variant Codes / Definition				
	332 = Baldor catalog number			
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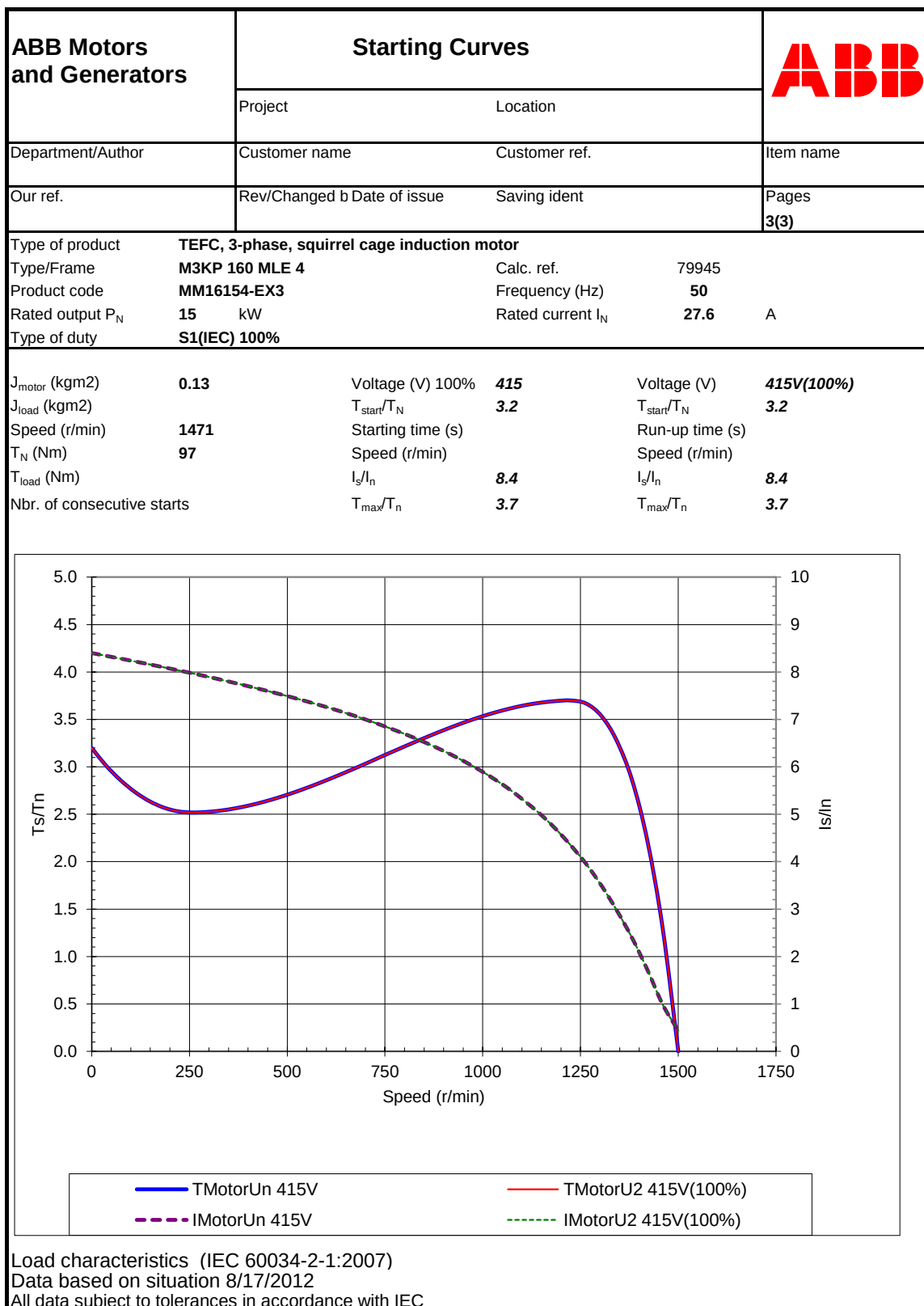


ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
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No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM16154-EX3 (3GKP162450-ADH+332+461)				
3	Type/Frame	M3KP 160 MLE 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	15	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	1467	r/min			
11	Rated current I _N	16.2	A			
12	No-load current	6.5	A			
13	Starting current I _s /I _N	7.8		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T _N	98	Nm			
15	Locked rotor torque T _S /T _N	3				
16	Maximum torque T _{max} /T _N	3.5				
17	Minimum torque T _{min} /T _N	2.3				
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	16.2	92.0 / IE2	0.84	
21		75	12.8	92.4	0.79	
22		50	9.7	92.1	0.7	
23		Start	126		0.55	
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	6309/C3 - 6309/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	0.13	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	46	kg			
42	Total weight of motor	249	kg			
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