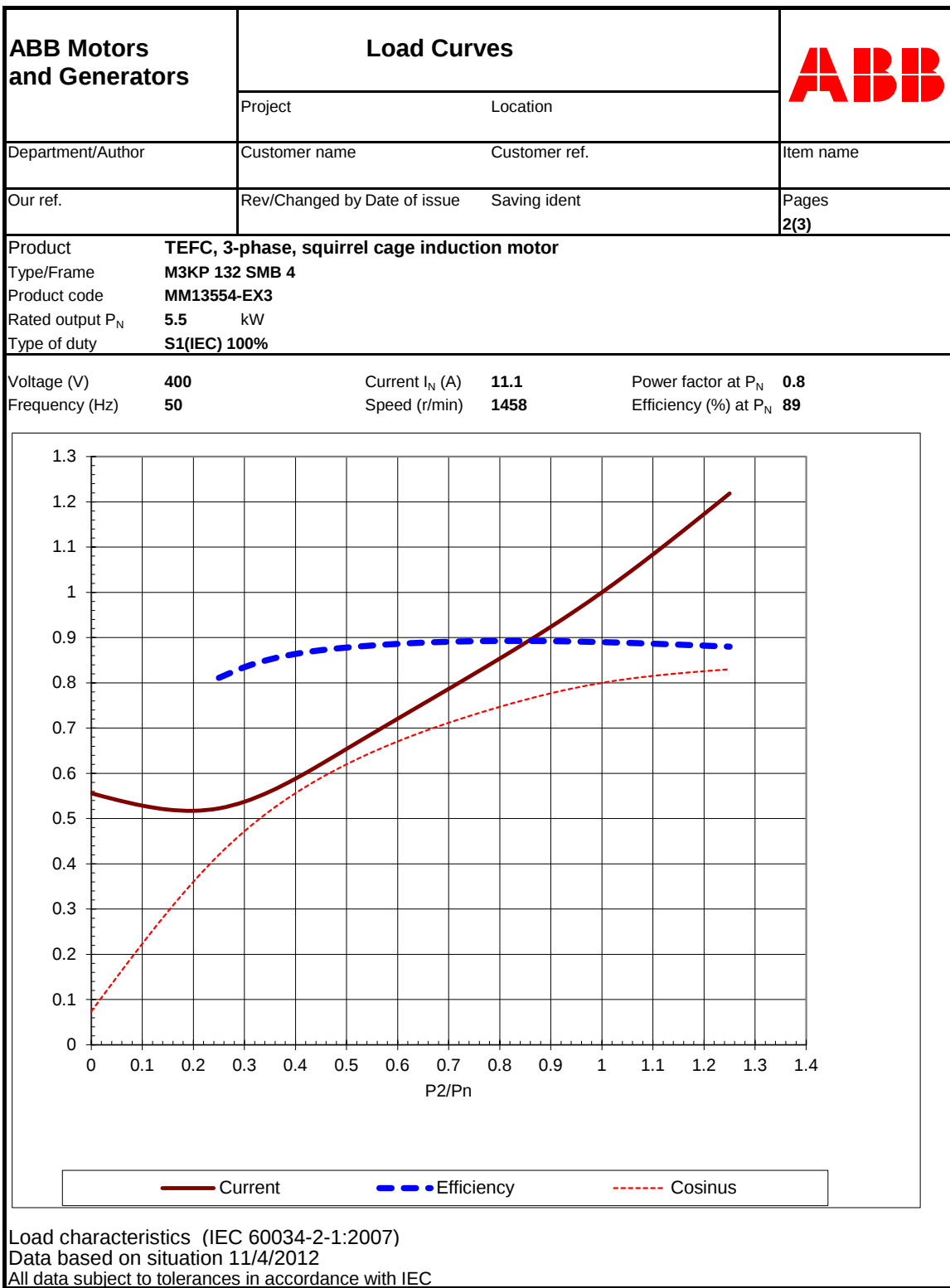


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name		Customer ref.		Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident		Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM13554-EX3 (3GKP132220-ADH+332+461)			
3	Type/Frame	M3KP 132 SMB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	5.5	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	1458	r/min		
11	Rated current I _N	11.1	A		
12	No-load current	6.2	A		
13	Starting current I _s /I _N	7.4		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	36	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	3			
18	Speed at minimum torque	0	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	11.1	89.0 / IE2	0.8
21		75	9.1	89.2	0.73
22		50	7.2	87.8	0.62
23		Start	82		0.6
24	Maximum starting time from hot	10	s		
25	Maximum starting time from cold	18	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	6208-2Z/C3 - 6208-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	60	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.023	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM32x1.5 + 1xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	19	kg		
42	Total weight of motor	102	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 11/4/2012					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					



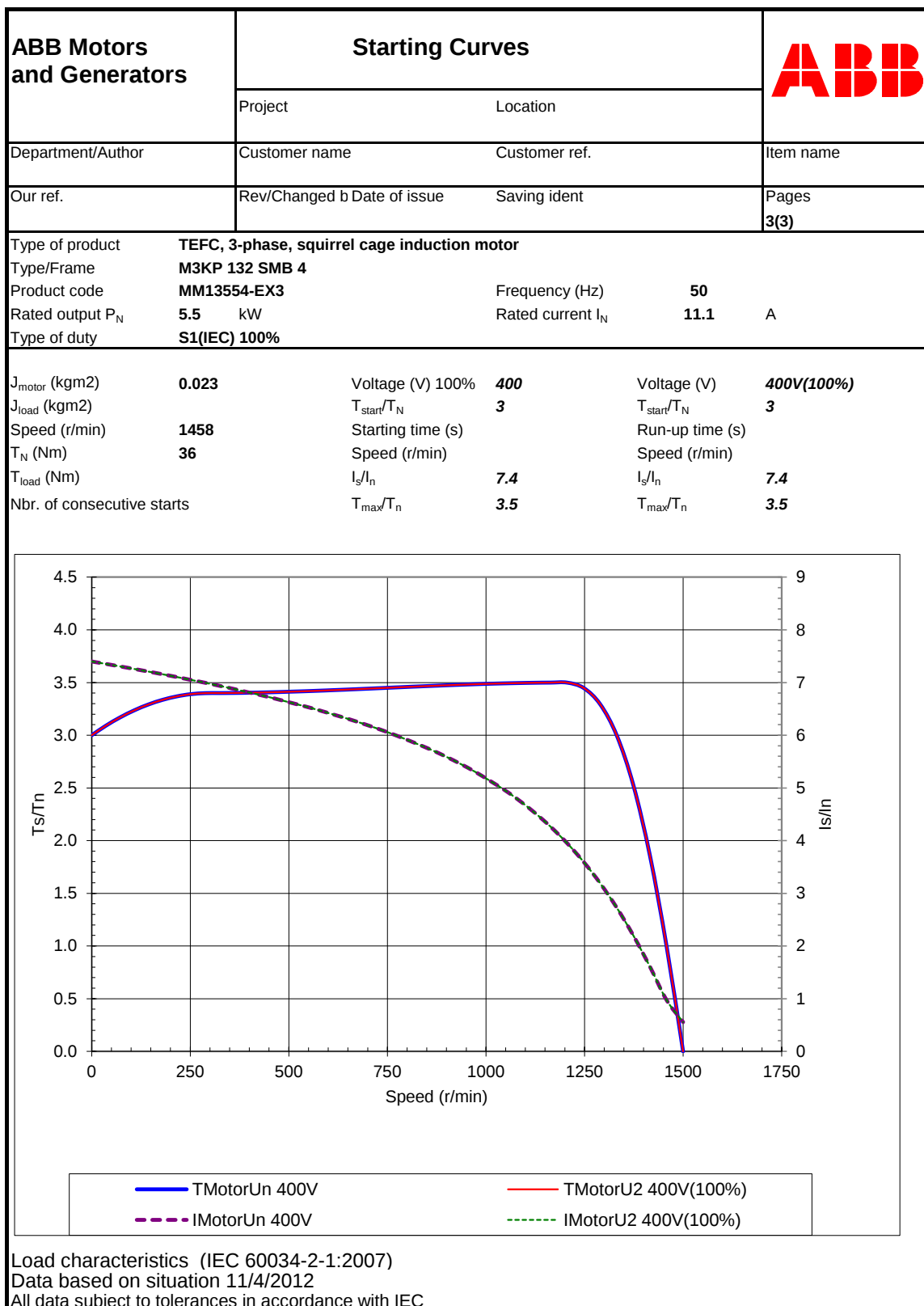
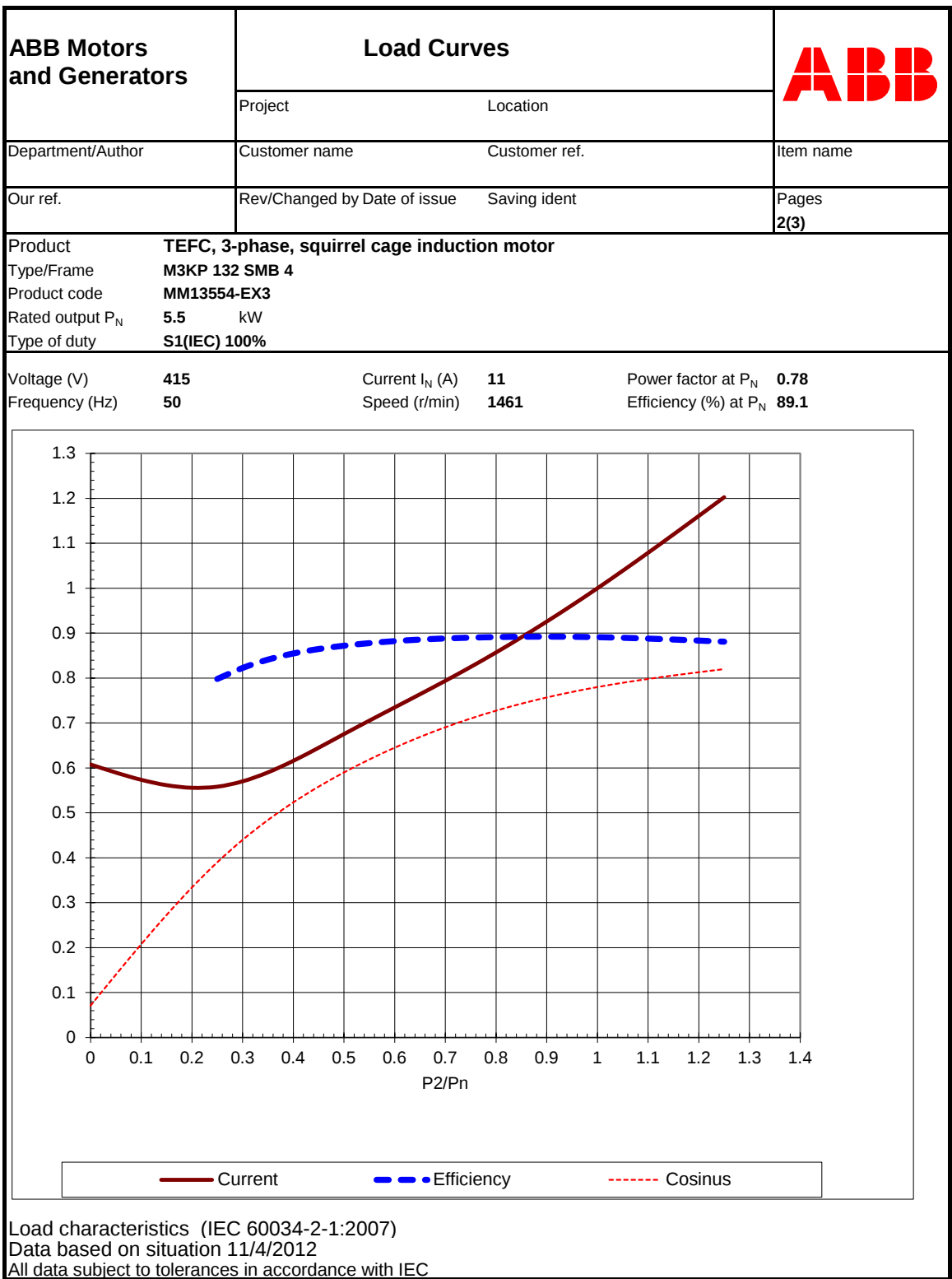


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name		Customer ref.		Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident		Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM13554-EX3 (3GKP132220-ADH+332+461)			
3	Type/Frame	M3KP 132 SMB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	5.5	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	1461	r/min		
11	Rated current I _N	11	A		
12	No-load current	6.7	A		
13	Starting current I _s /I _N	7.4		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	36	Nm		
15	Locked rotor torque T _s /T _N	3.3			
16	Maximum torque T _{max} /T _N	3.8			
17	Minimum torque T _{min} /T _N	3.3			
18	Speed at minimum torque	0	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	11	89.1 / IE2	0.78
21		75	9	89	0.71
22		50	7.4	87.2	0.59
23		Start	81		0.61
24	Maximum starting time from hot	10	s		
25	Maximum starting time from cold	20	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	6208-2Z/C3 - 6208-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	60	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.023	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM32x1.5 + 1xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	19	kg		
42	Total weight of motor	102	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 11/4/2012					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					



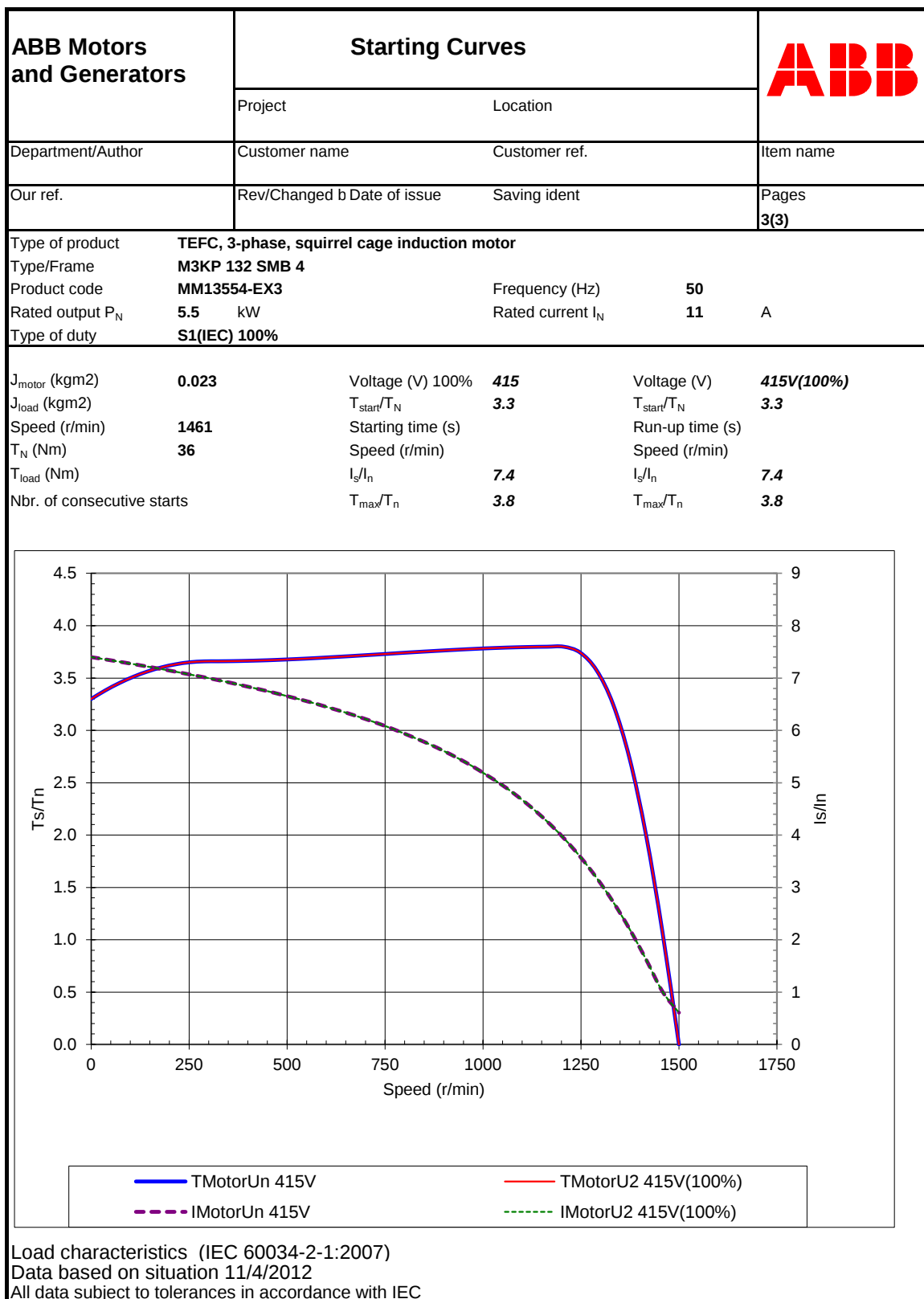


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name		Customer ref.		Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident		Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM13554-EX3 (3GKP132220-ADH+332+461)			
3	Type/Frame	M3KP 132 SMB 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	5.5	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	1458	r/min		
11	Rated current I _N	6.4	A		
12	No-load current	3.6	A		
13	Starting current I _s /I _N	7.4		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	36	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	3			
18	Speed at minimum torque	0	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	6.4	89.0 / IE2	0.8
21		75	5.3	89.2	0.73
22		50	4.2	87.8	0.62
23		Start	47		0.6
24	Maximum starting time from hot	10	s		
25	Maximum starting time from cold	18	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	6208-2Z/C3 - 6208-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	60	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.023	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dims.	2xM32x1.5 + 1xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	19	kg		
42	Total weight of motor	102	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 11/4/2012					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					

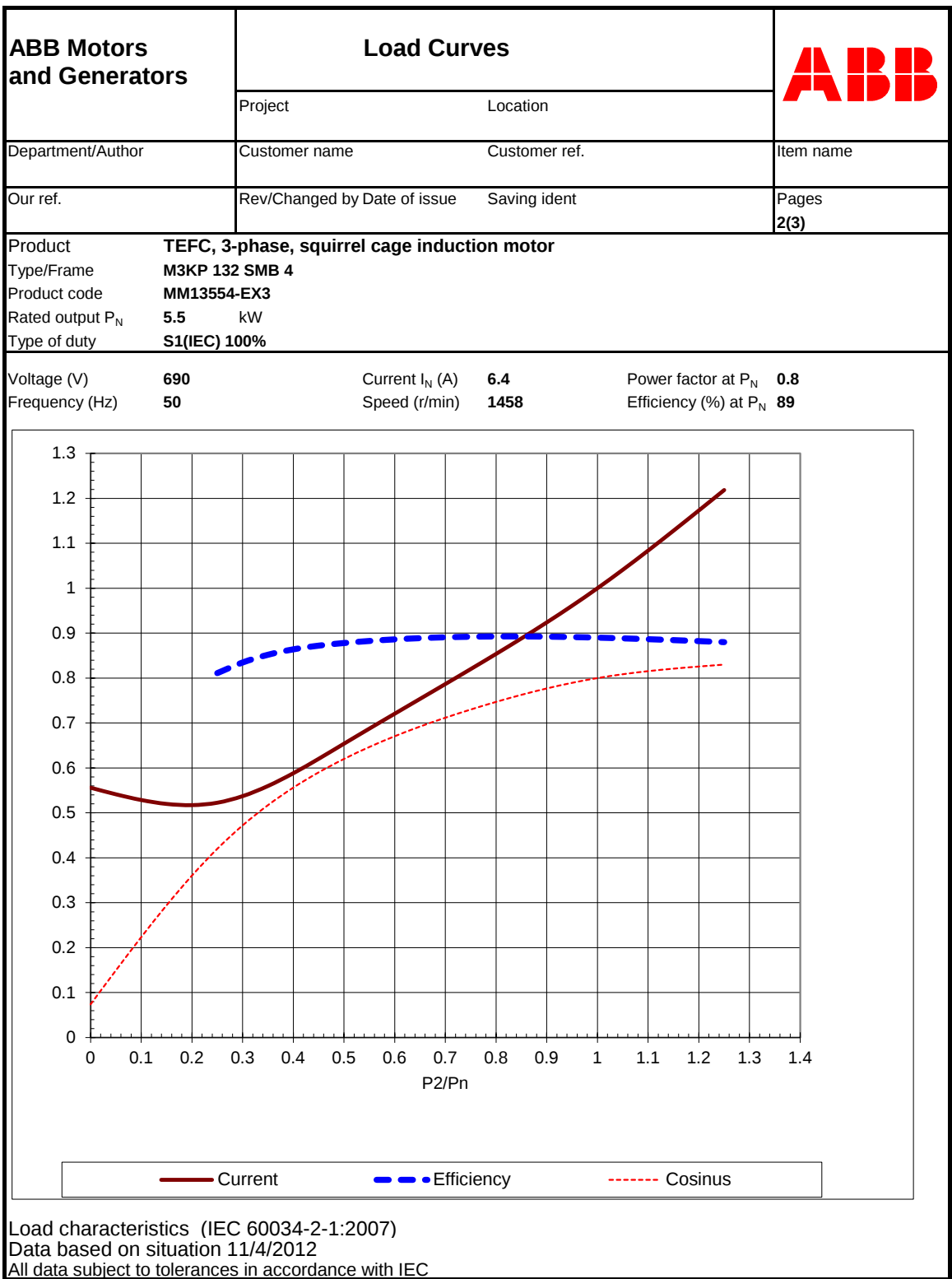
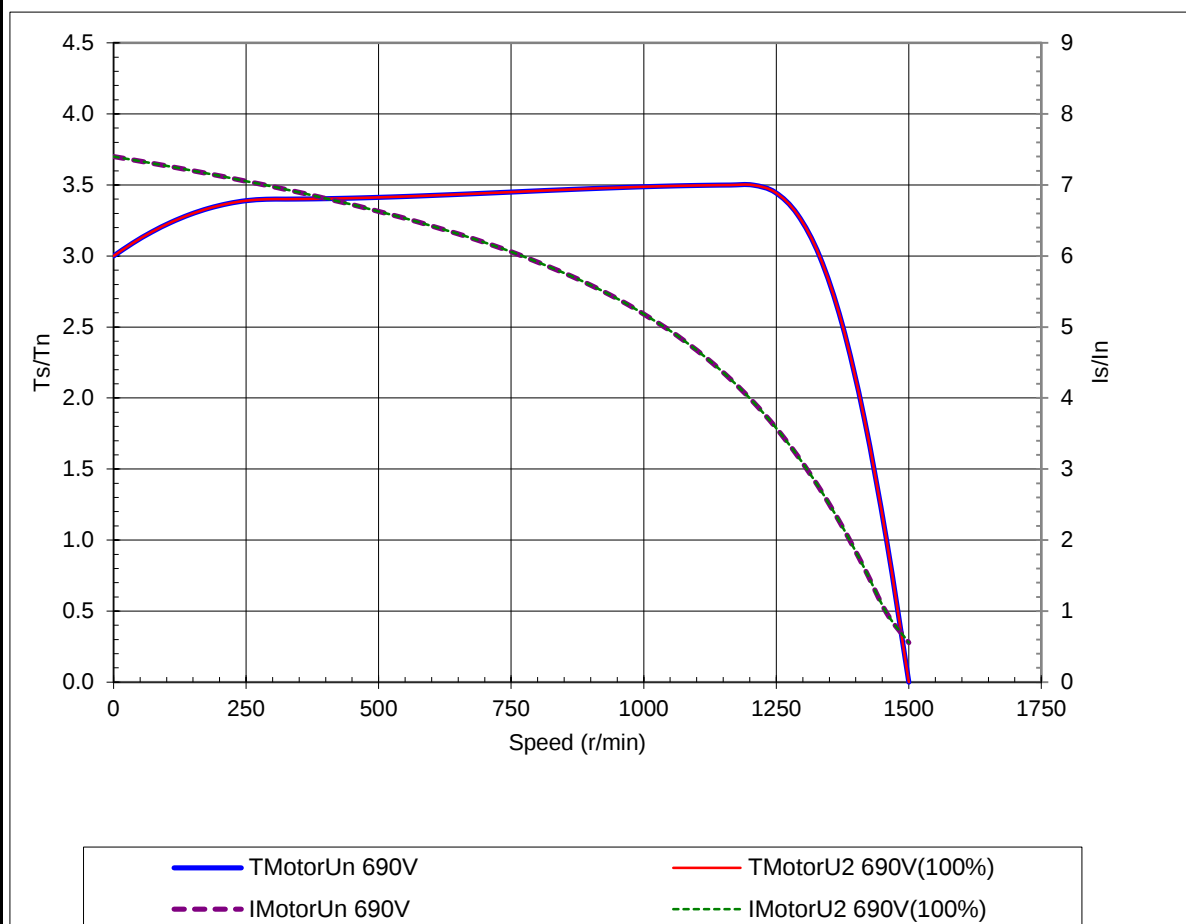


ABB Motors and Generators	Starting Curves		ABB
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b	Date of issue	Saving ident
			Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3KP 132 SMB 4		
Product code	MM13554-EX3	Frequency (Hz)	50
Rated output P_N	5.5 kW	Rated current I_N	6.4 A
Type of duty	S1(IEC) 100%		

J_{motor} (kgm ²)	0.023	Voltage (V) 100%	690	Voltage (V)	690V(100%)
J_{load} (kgm ²)		T_{start}/T_N	3	T_{start}/T_N	3
Speed (r/min)	1458	Starting time (s)		Run-up time (s)	
T_N (Nm)	36	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_N	7.4	I_s/I_N	7.4
Nbr. of consecutive starts		T_{max}/T_N	3.5	T_{max}/T_N	3.5



Load characteristics (IEC 60034-2-1:2007)
Data based on situation 11/4/2012
All data subject to tolerances in accordance with IEC