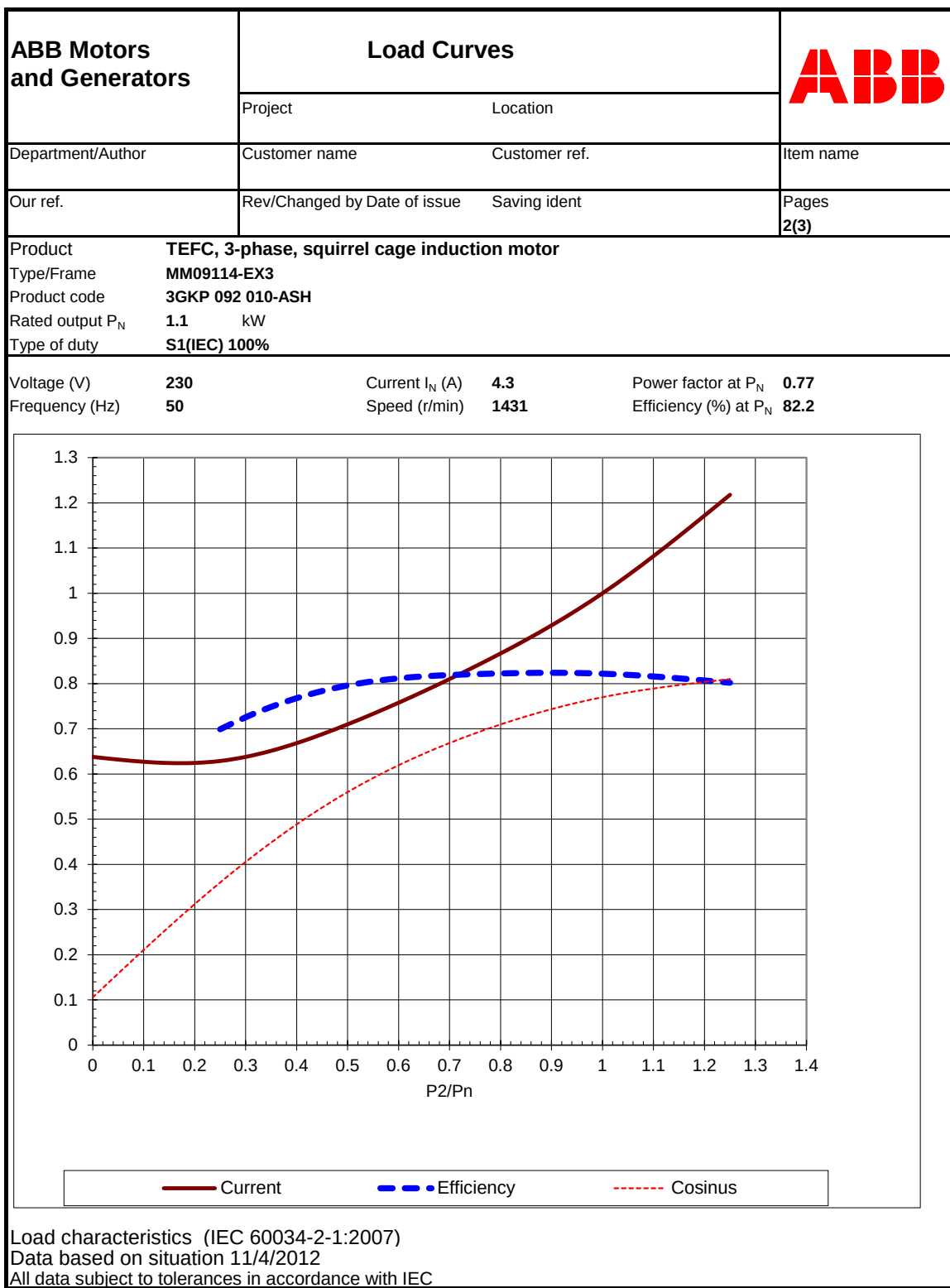


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM09114-EX3 (3GKP092010-ASH+332+461)			
3	Type/Frame	M3KP 90 SLA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	1.1	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	230	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1431	r/min		
11	Rated current I _N	4.3	A		
12	No-load current	2.8	A		
13	Starting current I _s /I _N	6.5		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	7.3	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	4.3	82.2 / IE2	0.77
21		75	3.6	82.1	0.69
22		50	3	79.6	0.56
23		Start	28.3		0.61
24	Maximum starting time from hot	20	s		
25	Maximum starting time from cold	36	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	6205-2Z/C3 - 6205-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	54	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.002	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	1xM25x1.5 + 1xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Weight of rotor	5	kg		
42	Total weight of motor	42	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					
* For more information on the Atex/IECEx rating, please contact your local Baldor representative.					



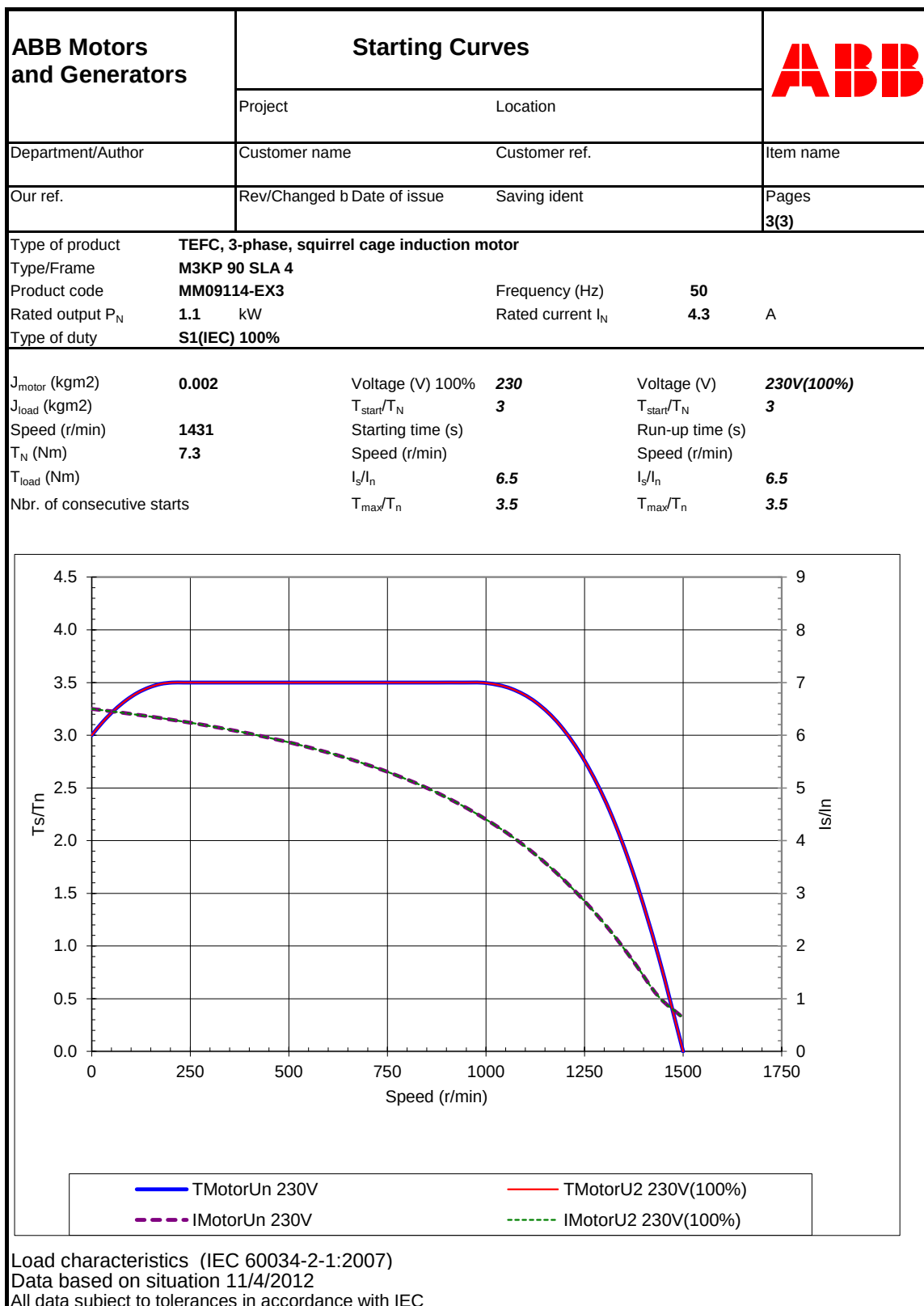
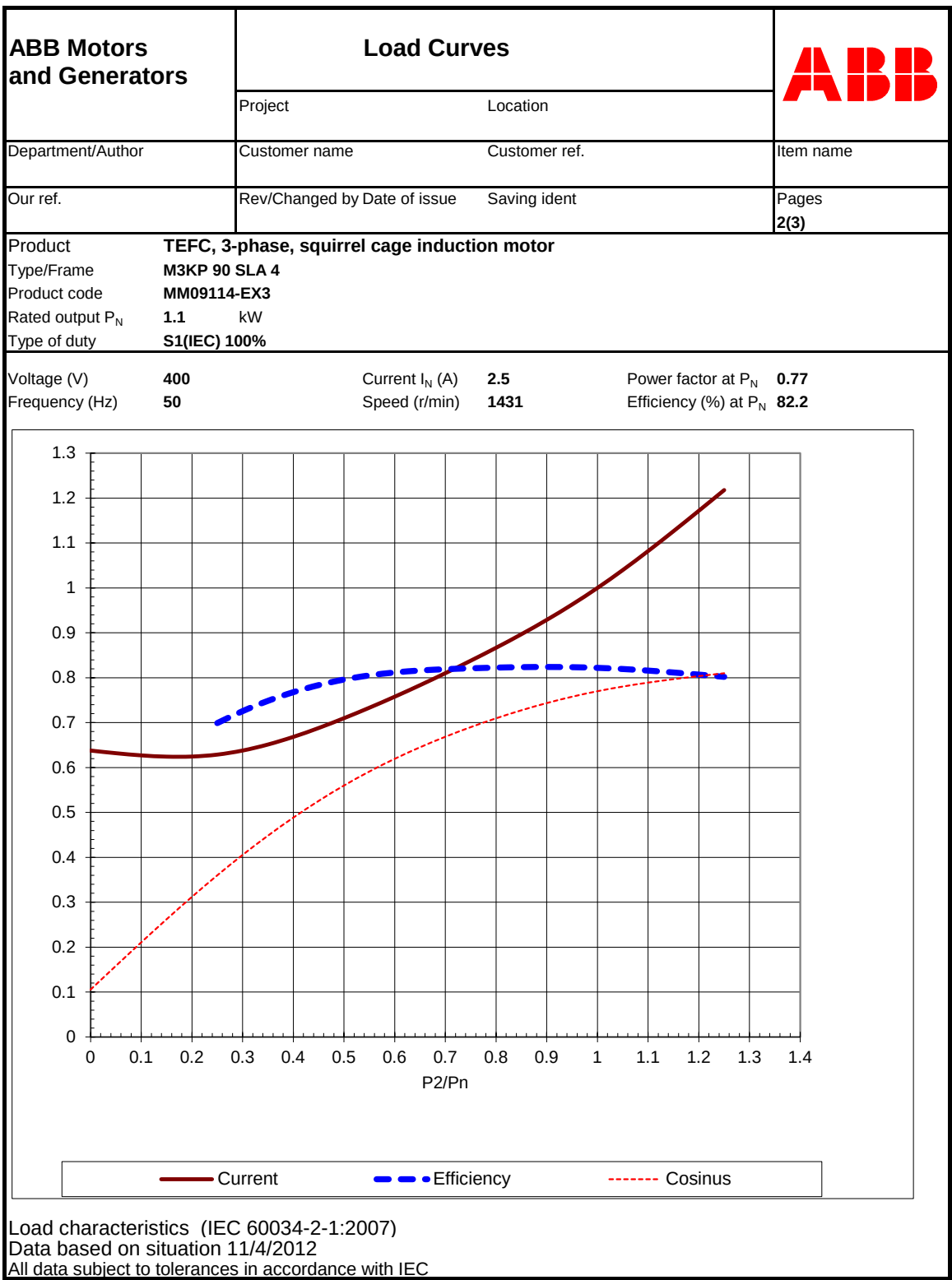


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM09114-EX3 (3GKP092010-ASH+332+461)		
3	Type/Frame	M3KP 90 SLA 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	1.1	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	400	VY	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	1431	r/min	
11	Rated current I _N	2.5	A	
12	No-load current	1.6	A	
13	Starting current I _s /I _N	6.5		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	7.3	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	2.5	82.2 / IE2 0.77
21		75	2.1	82.1 0.69
22		50	1.78	79.6 0.56
23		Start	16.3	0.61
24	Maximum starting time from hot	20	s	
25	Maximum starting time from cold	36	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	6205-2Z/C3 - 6205-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	54	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.002	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dims.	1xM25x1.5 + 1xM20x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Weight of rotor	5	kg	
42	Total weight of motor	42	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				
* For more information on the ATEX/IECEx rating, please contact your local Baldor representative.				



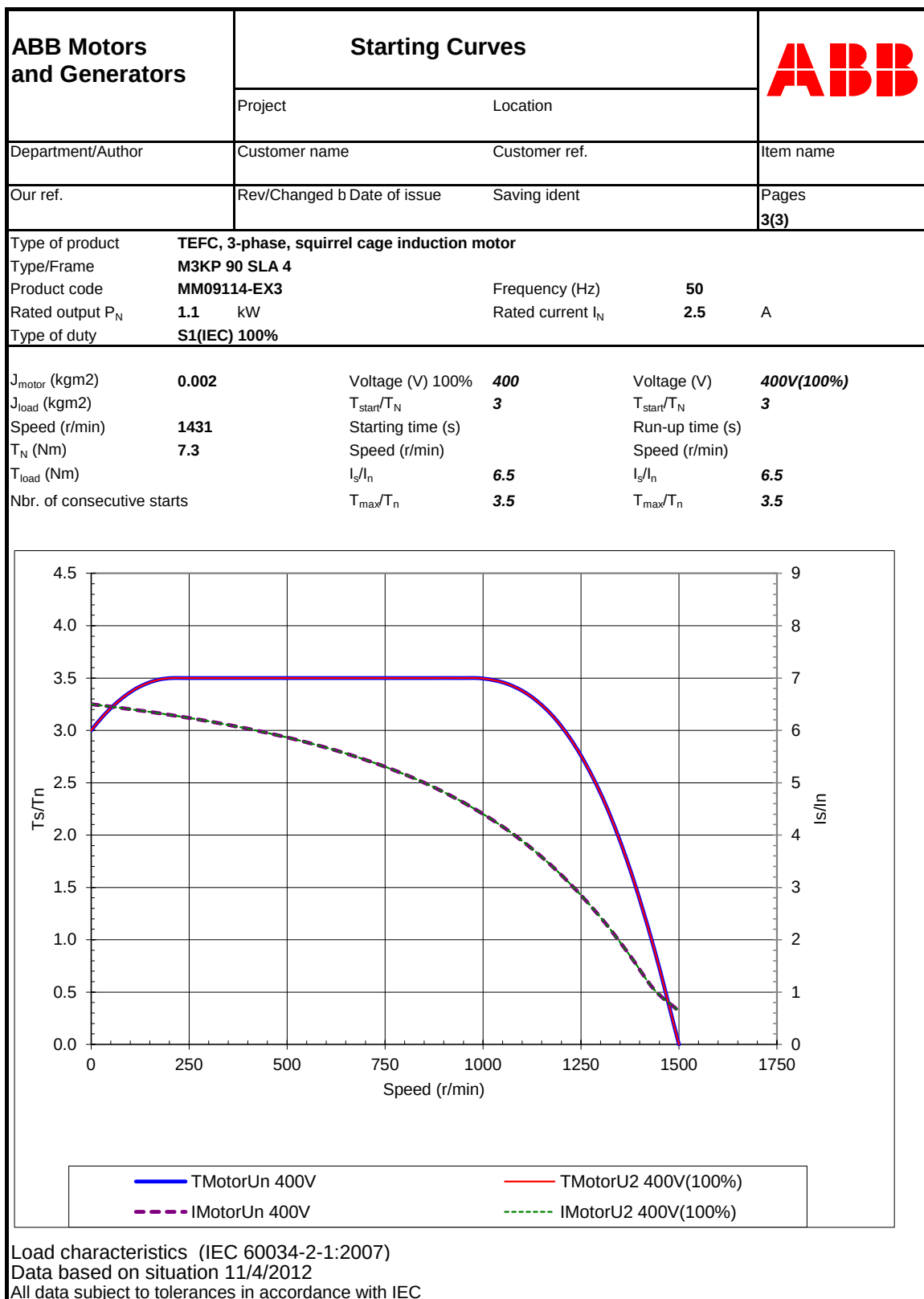


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM09114-EX3 (3GKP092010-ASH+332+461)		
3	Type/Frame	M3KP 90 SLA 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	1.1	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	415	VY	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	1440	r/min	
11	Rated current I _N	2.5	A	
12	No-load current	1.73	A	
13	Starting current I _s /I _N	6.8		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	7.3	Nm	
15	Locked rotor torque T _s /T _N	3.2		
16	Maximum torque T _{max} /T _N	3.5		
17	Minimum torque T _{min} /T _N	3.2		
18	Speed at minimum torque	0	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	2.5	82.0 / IE2
21		75	2.1	81.4
22		50	1.91	78.4
23		Start	17.1	0.62
24	Maximum starting time from hot	20	s	
25	Maximum starting time from cold	40	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	6205-2Z/C3 - 6205-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	54	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.002	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dims.	1xM25x1.5 + 1xM20x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Weight of rotor	5	kg	
42	Total weight of motor	42	kg	
43				
Ex-motors				
44	Type of protection	*Ex de IIC T4		
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Variant Codes / Definition				
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