

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	MM22374-AP (3GAA222031-ADG+332+333)			
3	Type/Frame	M3AA 225 SMA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	37	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	1479	r/min		
11	Rated current I _N	68	A		
12	No-load current	26	A		
13	Starting current I _s /I _N	7.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	239	Nm		
15	Locked rotor torque T _S /T _N	2.6			
16	Maximum torque T _{max} /T _N	2.9			
17	Minimum torque T _{min} /T _N	2.2			
18	Speed at minimum torque	975	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	68	93.4 / IE2	0.84
21		75	52.6	93.9	0.81
22		50	39.7	93.4	0.72
23		Start	483		0.41
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	6313-2Z/C3 - 6212-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	66	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.356	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM40 + 1xM16			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	240	kg		
42					

Variant Codes / Definition

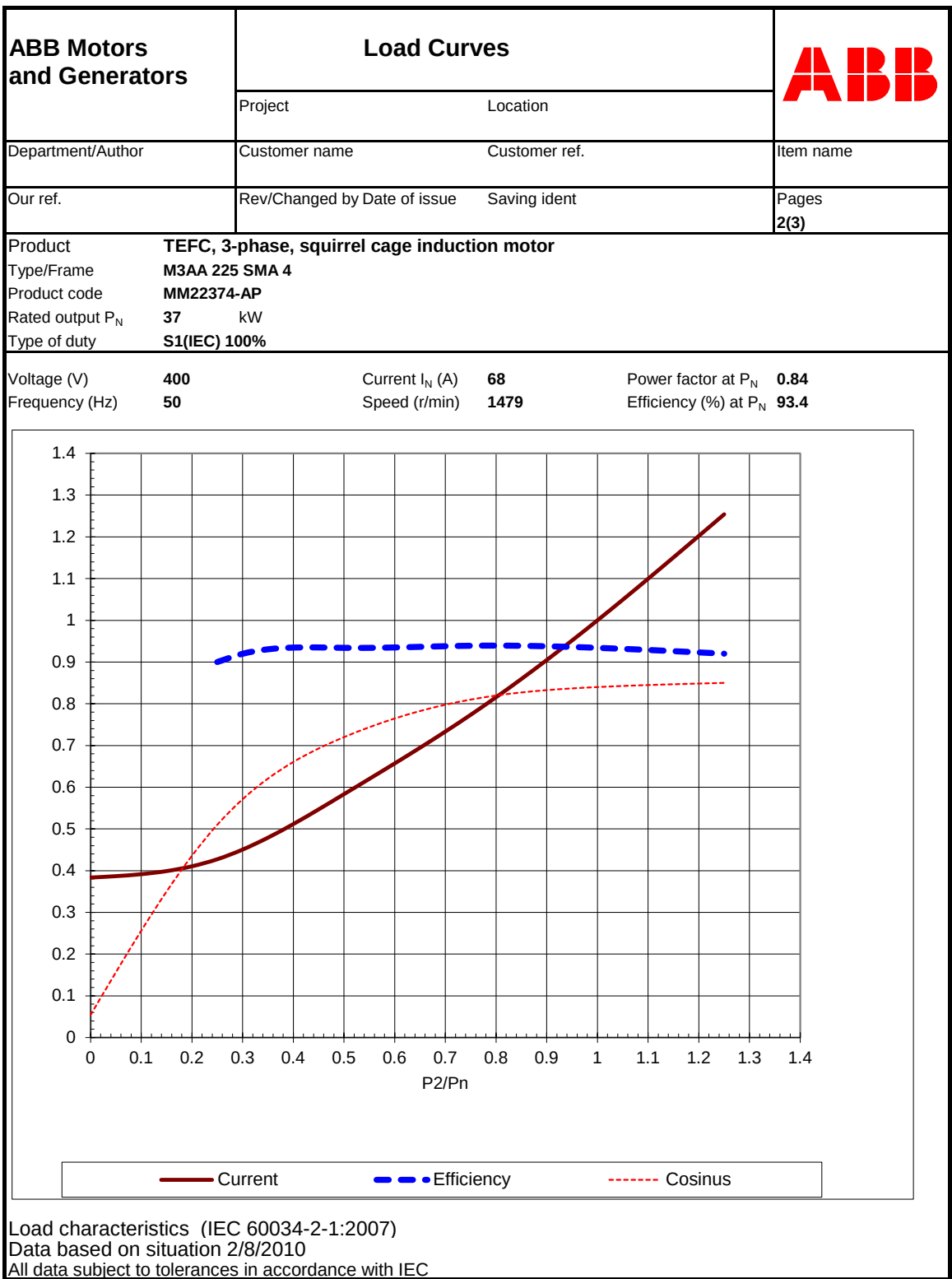
332 = Baldor catalog number
333 = Not for use in the USA

Remarks:

 Data based on situation 2/8/2010

 All data subject to tolerances in accordance with IEC

 Guaranteed values on request



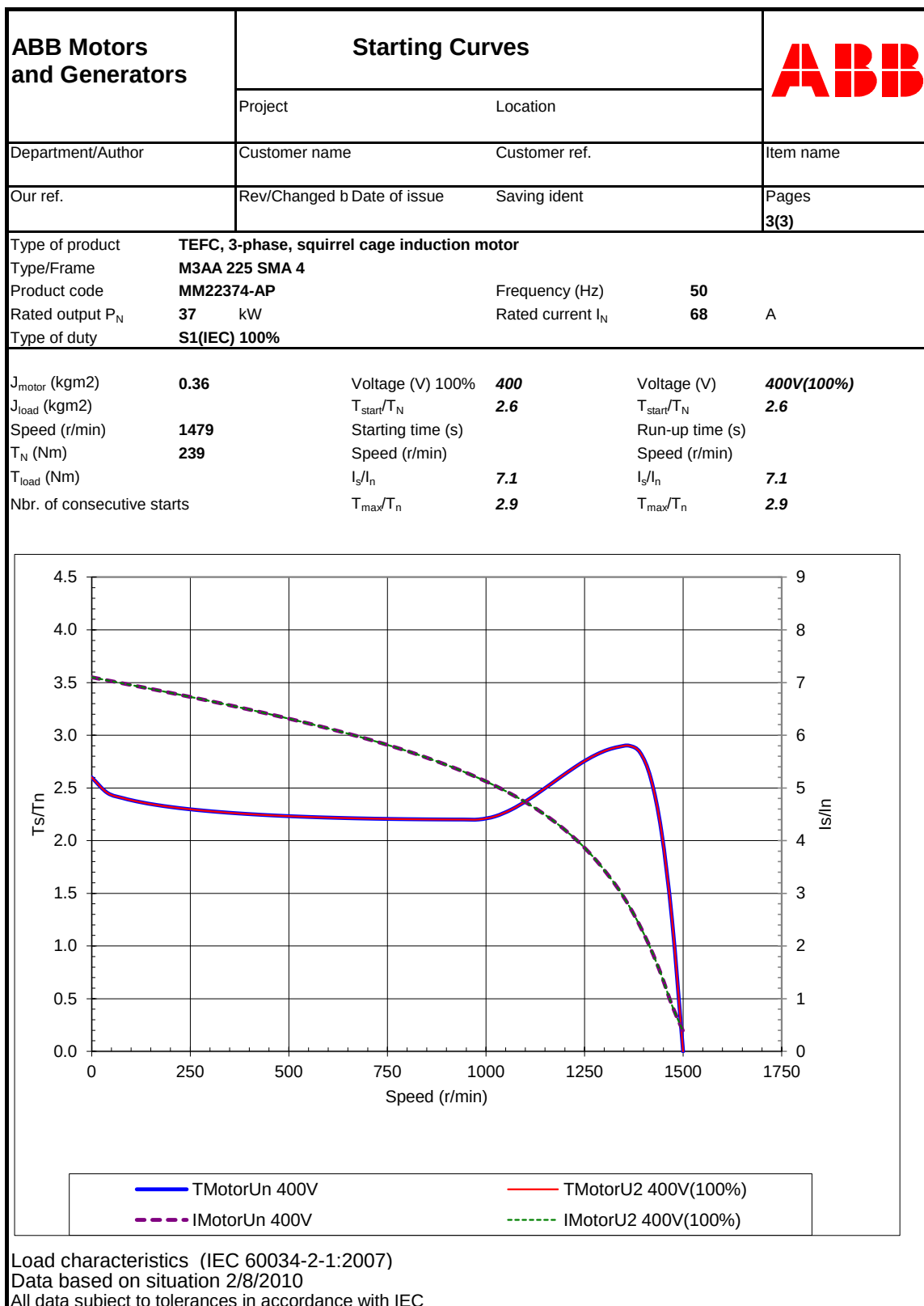


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project _____		Location _____	
Department/Author _____		Customer name _____		Customer ref. _____	
Our ref. _____		Rev/Changed by _____		Date of issue _____	
		Saving ident _____		Pages 1(3)	

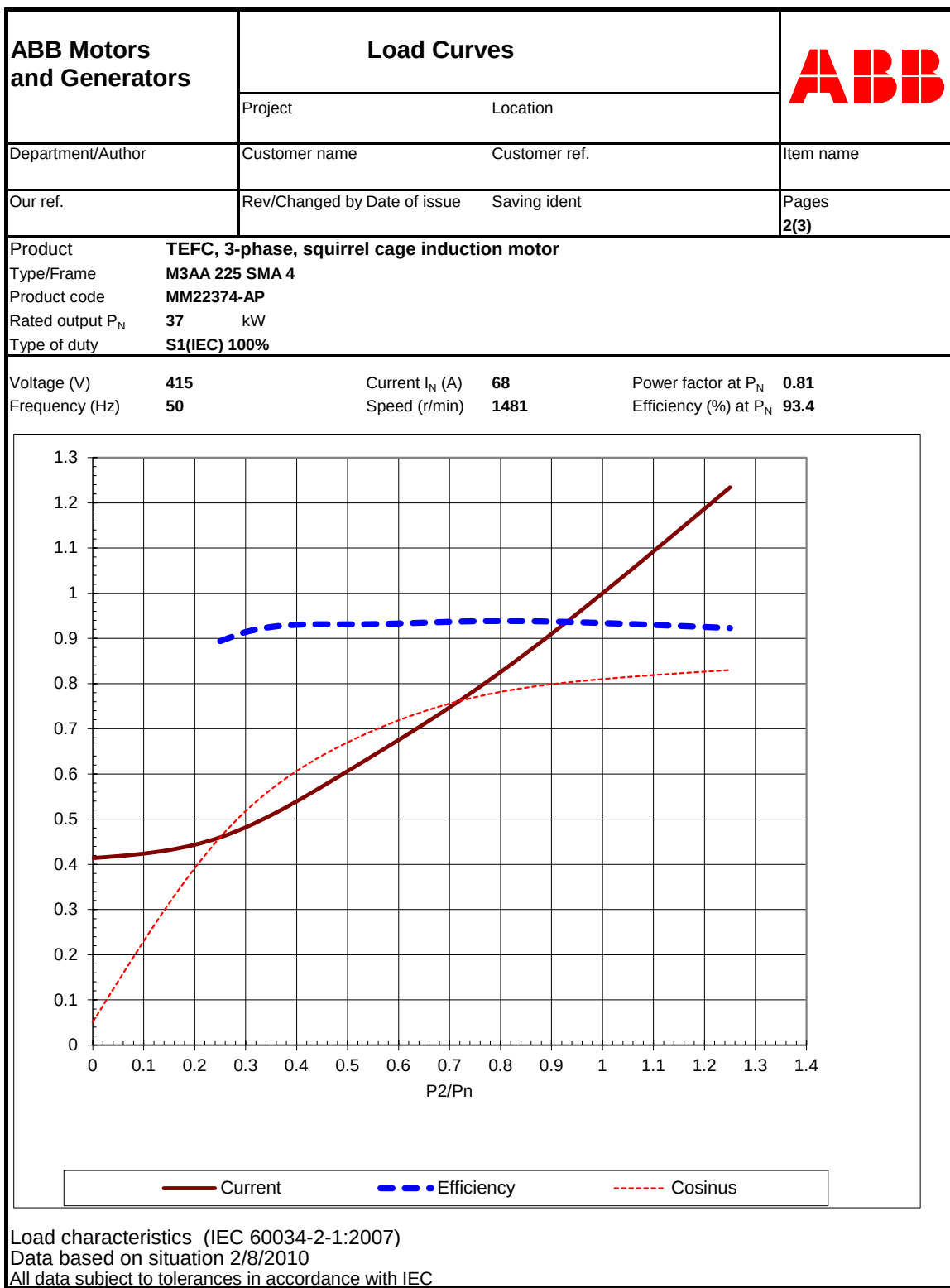
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM22374-AP (3GAA222031-ADG+332+333)		
3	Type/Frame	M3AA 225 SMA 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	37	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	415	VD	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	1481	r/min	
11	Rated current I _N	68	A	
12	No-load current	28	A	
13	Starting current I _s /I _N	7.3		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	239	Nm	
15	Locked rotor torque T _S /T _N	2.9		
16	Maximum torque T _{max} /T _N	3.1		
17	Minimum torque T _{min} /T _N	2.4		
18	Speed at minimum torque	975	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	68	93.4 / IE2
21		75	53.4	93.8
22		50	41.2	93.1
23		Start	496	0.42
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	6313-2Z/C3 - 6212-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	66	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.356	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	2xM40 + 1xM16		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	240	kg	
42				

Variant Codes / Definition

332 = Baldor catalog number
333 = Not for use in the USA

Remarks:

Data based on situation 2/8/2010
 All data subject to tolerances in accordance with IEC
 Guaranteed values on request



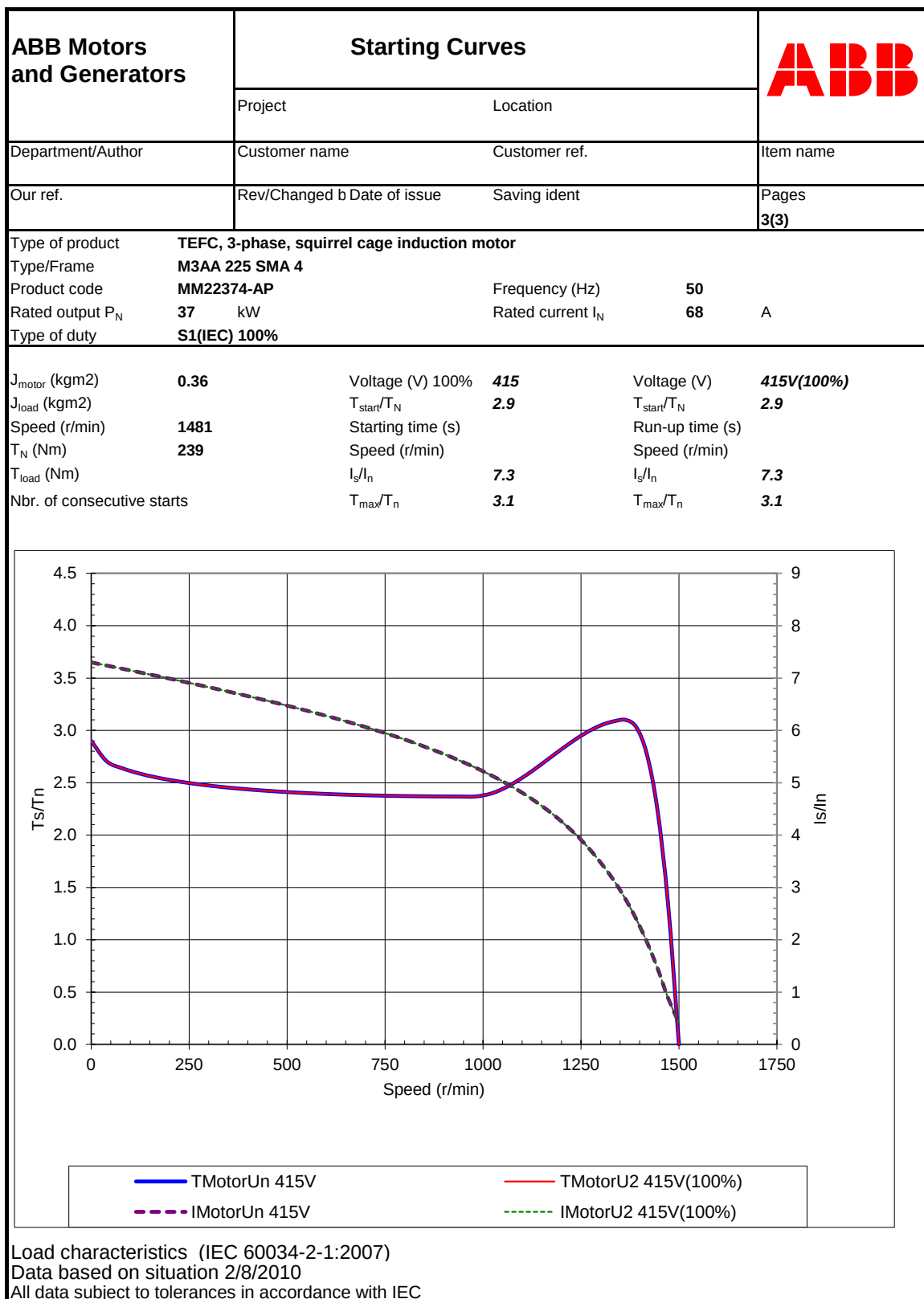


ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident		Pages 1(3)

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM22374-AP (3GAA222031-ADG+332+333)			
3	Type/Frame	M3AA 225 SMA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	37	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	1479	r/min		
11	Rated current I _N	39.4	A		
12	No-load current	15.1	A		
13	Starting current I _s /I _N	7.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	239	Nm		
15	Locked rotor torque T _S /T _N	2.6			
16	Maximum torque T _{max} /T _N	2.9			
17	Minimum torque T _{min} /T _N	2.2			
18	Speed at minimum torque	975	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	39.4	93.4 / IE2	0.84
21		75	30.5	93.9	0.81
22		50	23	93.4	0.72
23		Start	280		0.41
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	6313-2Z/C3 - 6212-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	66	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.356	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM40 + 1xM16			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	240	kg		
42					

Variant Codes / Definition

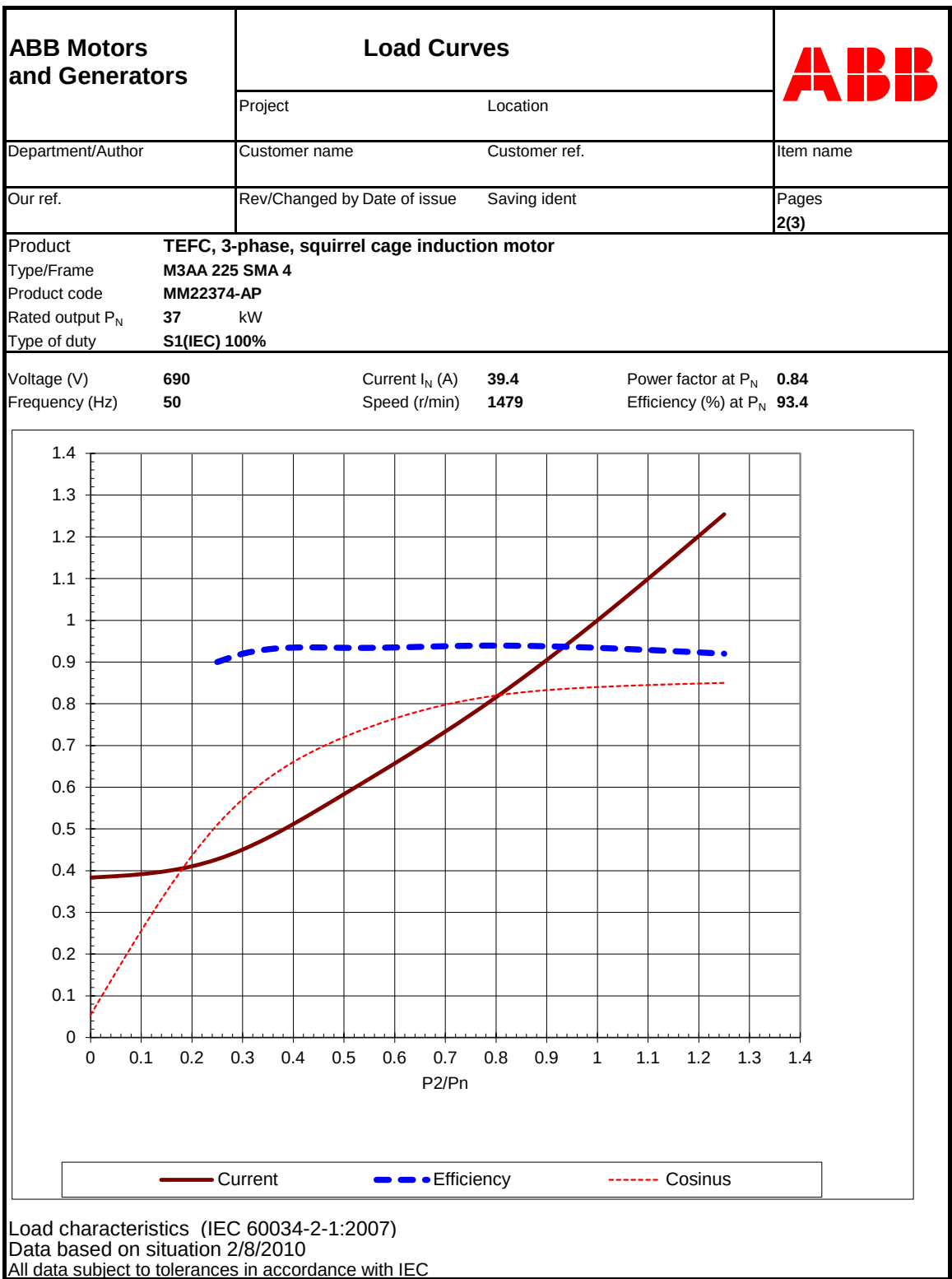
332 = Baldor catalog number
333 = Not for use in the USA

Remarks:

 Data based on situation 2/8/2010

 All data subject to tolerances in accordance with IEC

 Guaranteed values on request



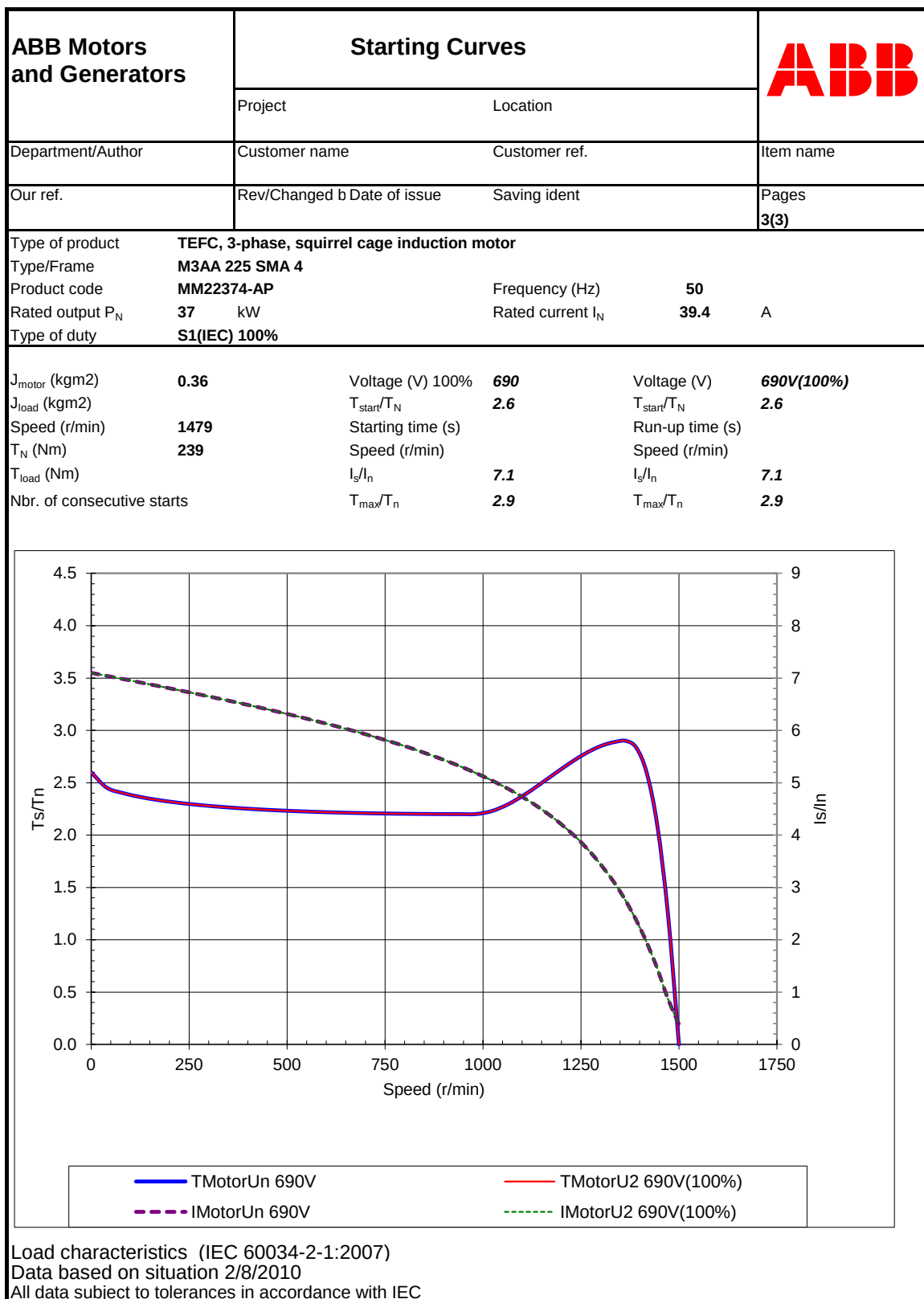


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project _____		Location _____	
Department/Author _____		Customer name _____		Customer ref. _____	
Our ref. _____		Rev/Changed by _____		Date of issue _____	
				Saving ident _____	
				Pages 1(3)	

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM22374-AP (3GAA222031-ADG+332+333)			
3	Type/Frame	M3AA 225 SMA 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	37	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	460	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	60	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1782	r/min		
11	Rated current I _N	59	A		
12	No-load current	23	A		
13	Starting current I _s /I _N	8.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	198	Nm		
15	Locked rotor torque T _S /T _N	2.8			
16	Maximum torque T _{max} /T _N	3.2			
17	Minimum torque T _{min} /T _N	2.4			
18	Speed at minimum torque	1170	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	
20	PLL determined from residual loss	100	59	93.6 / IE2	
21		75	45.9	93.5	
22		50	34.8	92.5	
23		Start	478	0.38	
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	6313-2Z/C3 - 6212-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	74	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.356	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM40 + 1xM16			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	240	kg		
42					

Variant Codes / Definition

332 = Baldor catalog number
333 = Not for use in the USA

Remarks:

Data based on situation 2/8/2010
 All data subject to tolerances in accordance with IEC
 Guaranteed values on request

