

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	MM06124-AP (3GAA062311-ASC+002+332)		
3	Type/Frame	M3AA 63 A 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	0.12	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	1400	r/min	
11	Rated current I _N	0.8	A	
12	No-load current	0.7	A	
13	Starting current I _s /I _N	3.1		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	0.82	Nm	
15	Locked rotor torque T _S /T _N	2.7		
16	Maximum torque T _{max} /T _N	2.8		
17	Minimum torque T _{min} /T _N	2.6		
18	Speed at minimum torque	240	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	0.8	65.5
21		75	0.79	60.4
22		50	0.78	51.7
23		Start	2.5	0.82
24	Maximum starting time from hot	40	s	
25	Maximum starting time from cold	72	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	6202-2Z/C3 - 6201-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	40	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.00019	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	1xM16x1.5 + 1x Pg 11		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	4	kg	
42				

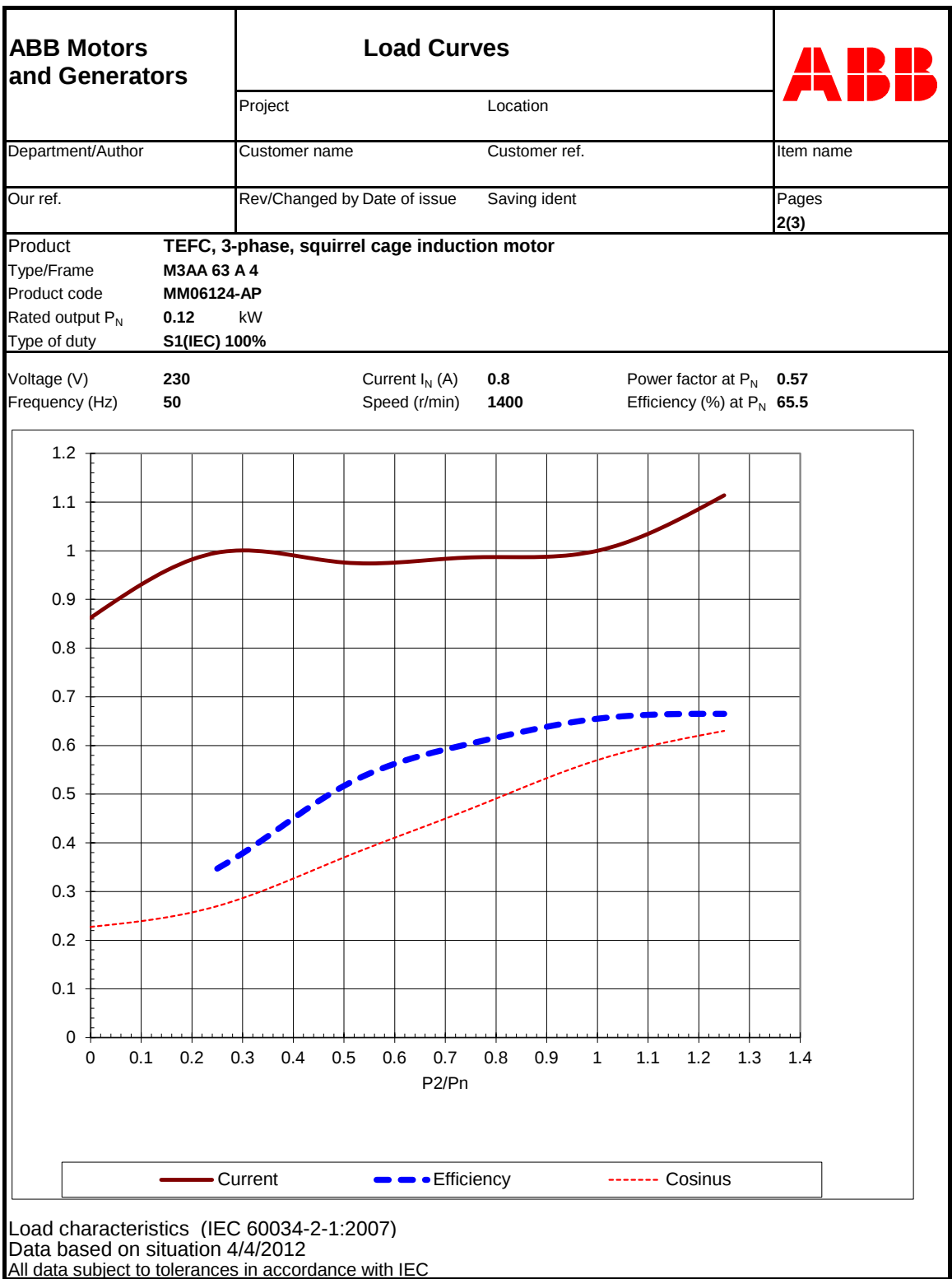
Variant Codes / Definition	
002	= Nameplated 0.12kW, 230D/400Y,50hz, 460Y,60hz
332	= Baldor catalog number

Remarks:

 Data based on situation 4/4/2012

 All data subject to tolerances in accordance with IEC

 Guaranteed values on request



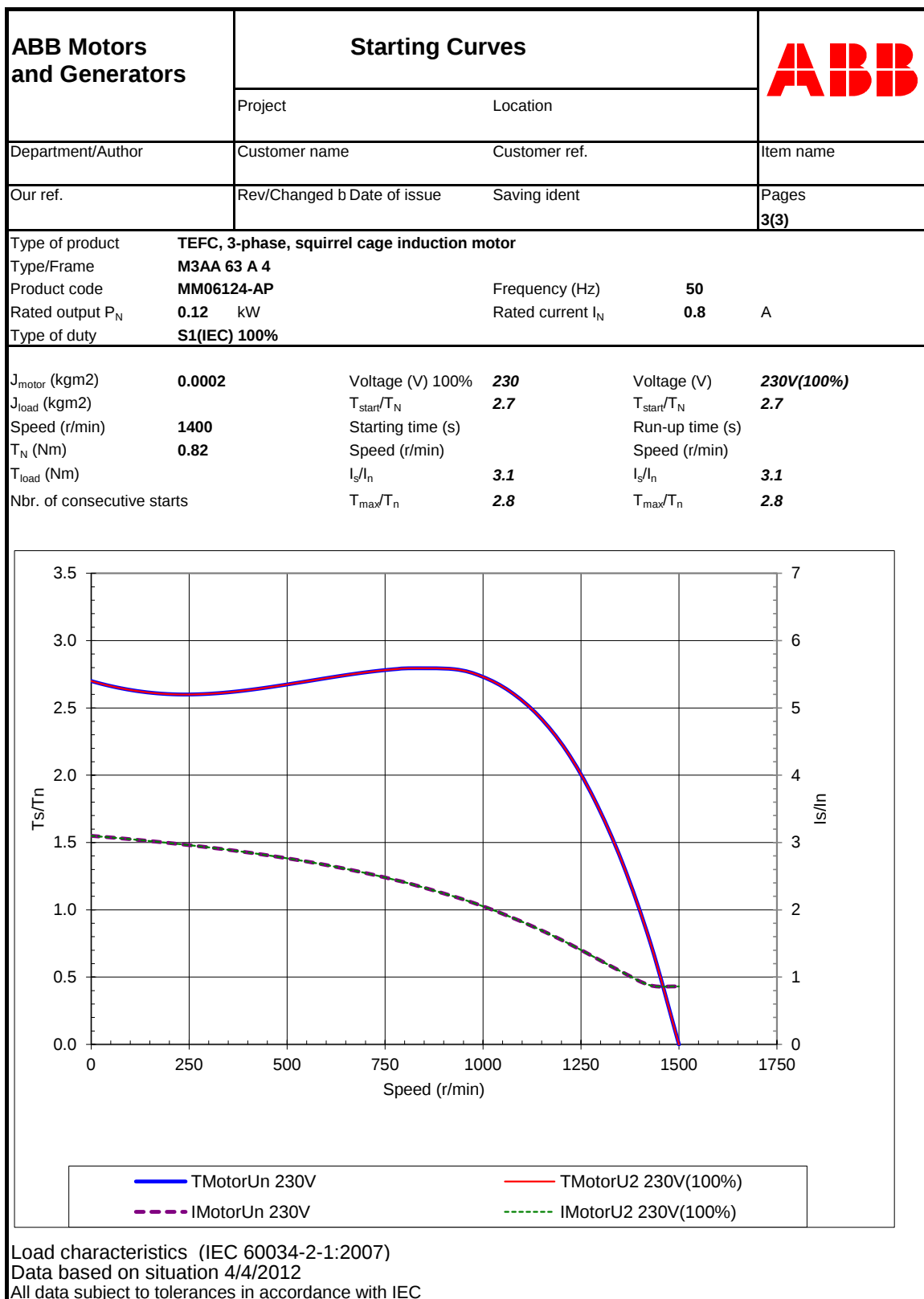


ABB Motors and Generators		Technical Data Sheet - DOL				
		Project		Location		
Department/Author		Customer name		Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)	

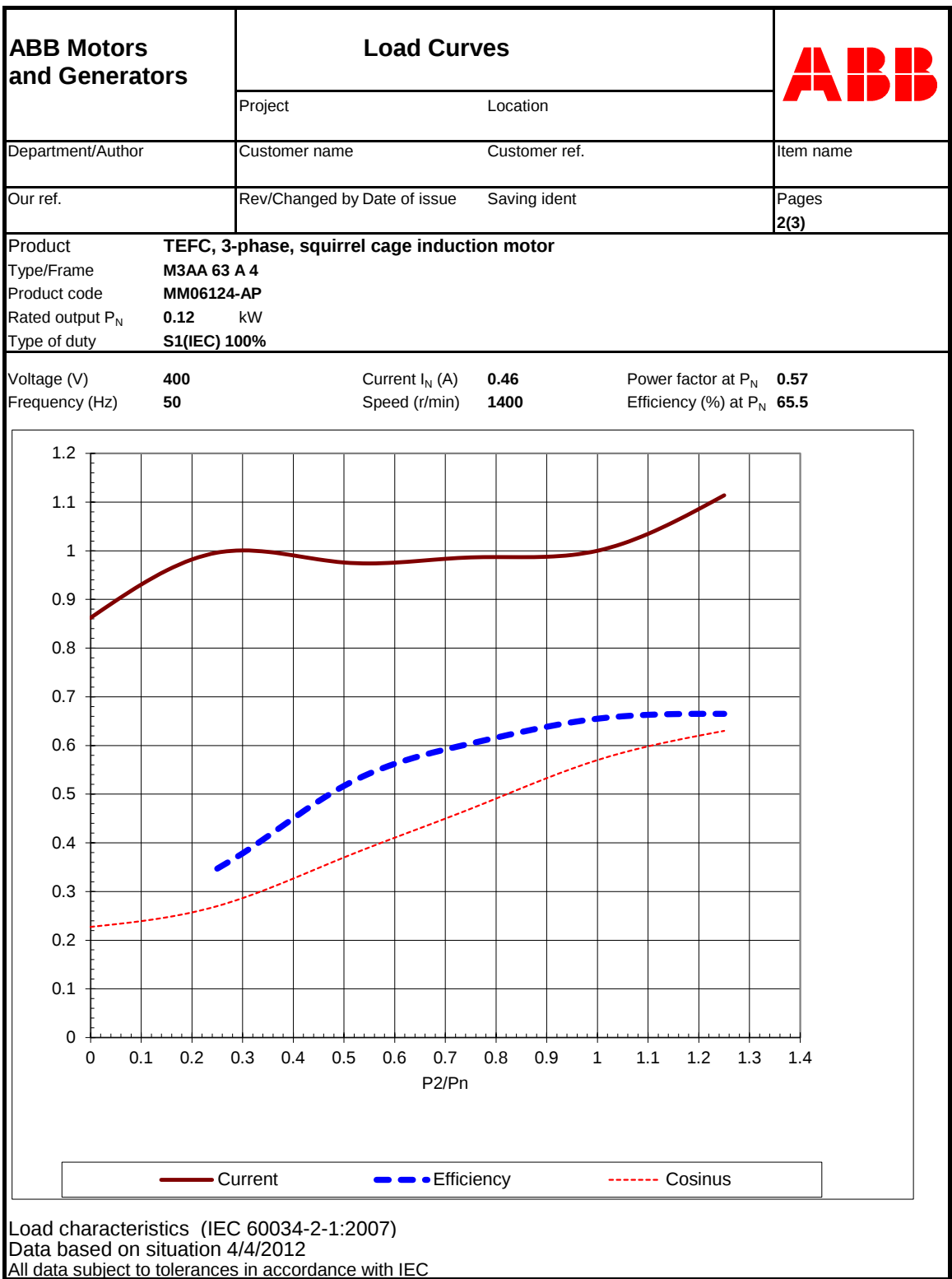
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM06124-AP (3GAA062311-ASC+002+332)			
3	Type/Frame	M3AA 63 A 4			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	0.12	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	400	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1400	r/min		
11	Rated current I _N	0.46	A		
12	No-load current	0.4	A		
13	Starting current I _s /I _N	3.1		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	0.82	Nm		
15	Locked rotor torque T _S /T _N	2.7			
16	Maximum torque T _{max} /T _N	2.8			
17	Minimum torque T _{min} /T _N	2.6			
18	Speed at minimum torque	240	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	0.46	65.5	0.57
21		75	0.45	60.4	0.47
22		50	0.45	51.7	0.37
23		Start	1.4		0.82
24	Maximum starting time from hot	40	s		
25	Maximum starting time from cold	72	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	6202-2Z/C3 - 6201-2Z/C3			
32	Type of Grease	Greased for life			
33	Sound pressure level (LP dB(A) 1m)	40	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.00019	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	1xM16x1.5 + 1x Pg 11			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	4	kg		
42					

Variant Codes / Definition

002 = Nameplated 0.12kW, 230D/400Y,50hz, 460Y,60hz
332 = Baldor catalog number

Remarks:

Data based on situation 4/4/2012
 All data subject to tolerances in accordance with IEC
 Guaranteed values on request



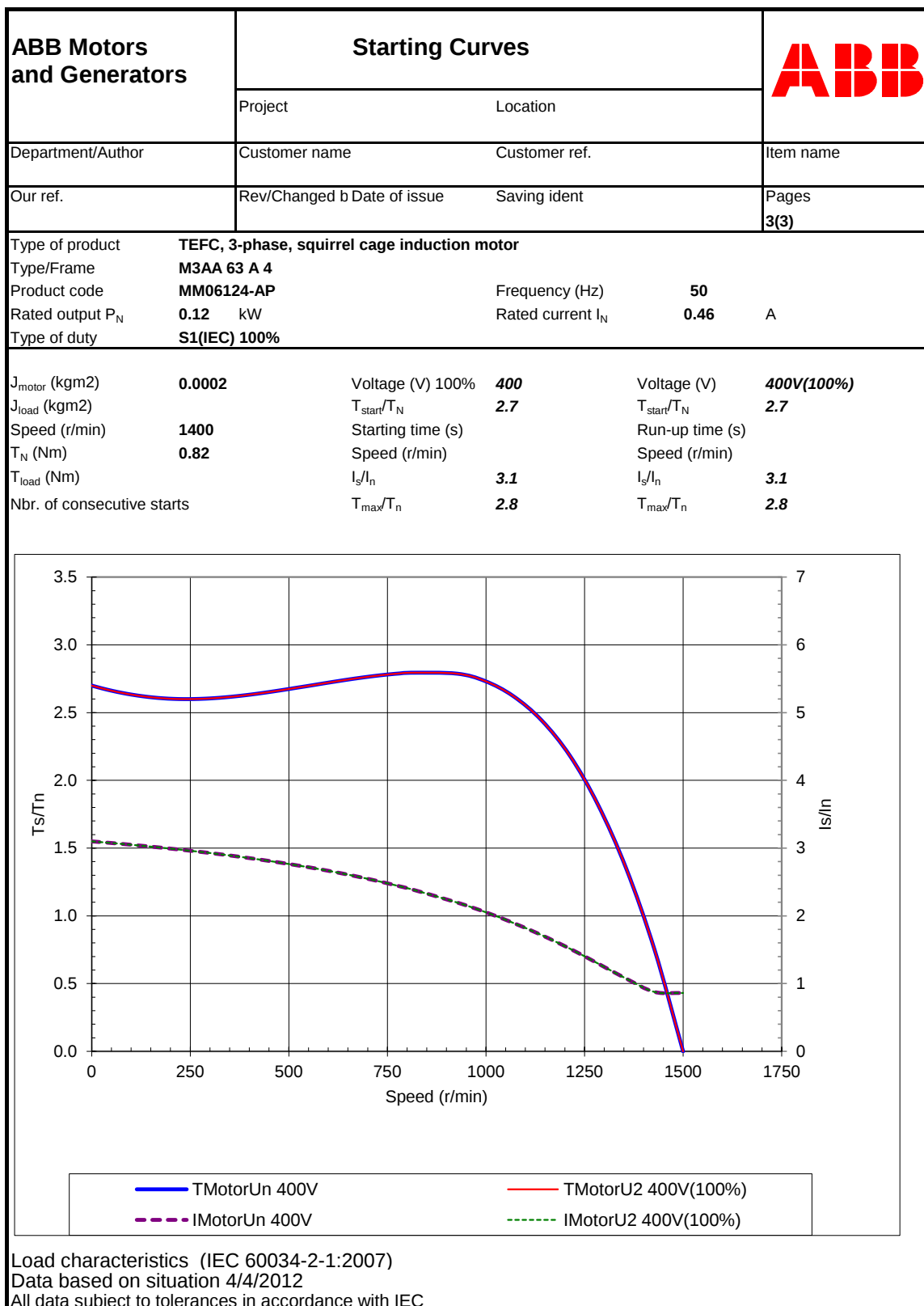


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project _____		Location _____	
Department/Author _____		Customer name _____		Customer ref. _____	
Our ref. _____		Rev/Changed by _____		Date of issue _____	
				Saving ident _____	
				Pages 1(3)	

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM06124-AP (3GAA062311-ASC+002+332)		
3	Type/Frame	M3AA 63 A 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P_N	0.12	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U_N	460	VY	± 5 % (IEC 60034-1)
9	Rated frequency f_N	60	Hz	± 2 % (IEC 60034-1)
10	Rated speed n_N	1682	r/min	
11	Rated current I_N	0.43	A	
12	No-load current	0.34	A	
13	Starting current I_s/I_N	3.1		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T_N	0.68	Nm	
15	Locked rotor torque T_s/T_N	3.1		
16	Maximum torque T_{max}/T_N	3.2		
17	Minimum torque T_{min}/T_N	3.1		
18	Speed at minimum torque	288	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	0.43	62.5
21		75	0.43	56.9
22		50	0.42	46.9
23		Start	1.3	0.8
24	Maximum starting time from hot	40	s	
25	Maximum starting time from cold	72	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	6202-2Z/C3 - 6201-2Z/C3		
32	Type of Grease	Greased for life		
33	Sound pressure level (LP dB(A) 1m)	47	dB(A)	at load
34	Moment of inertia $J = \frac{1}{4} GD^2$	0.00019	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	1xM16x1.5 + 1x Pg 11		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	4	kg	
42				

Variant Codes / Definition

002 = Nameplated 0.12kW, 230D/400Y,50hz, 460Y,60hz
332 = Baldor catalog number

Remarks:

Data based on situation 4/4/2012
 All data subject to tolerances in accordance with IEC
 Guaranteed values on request

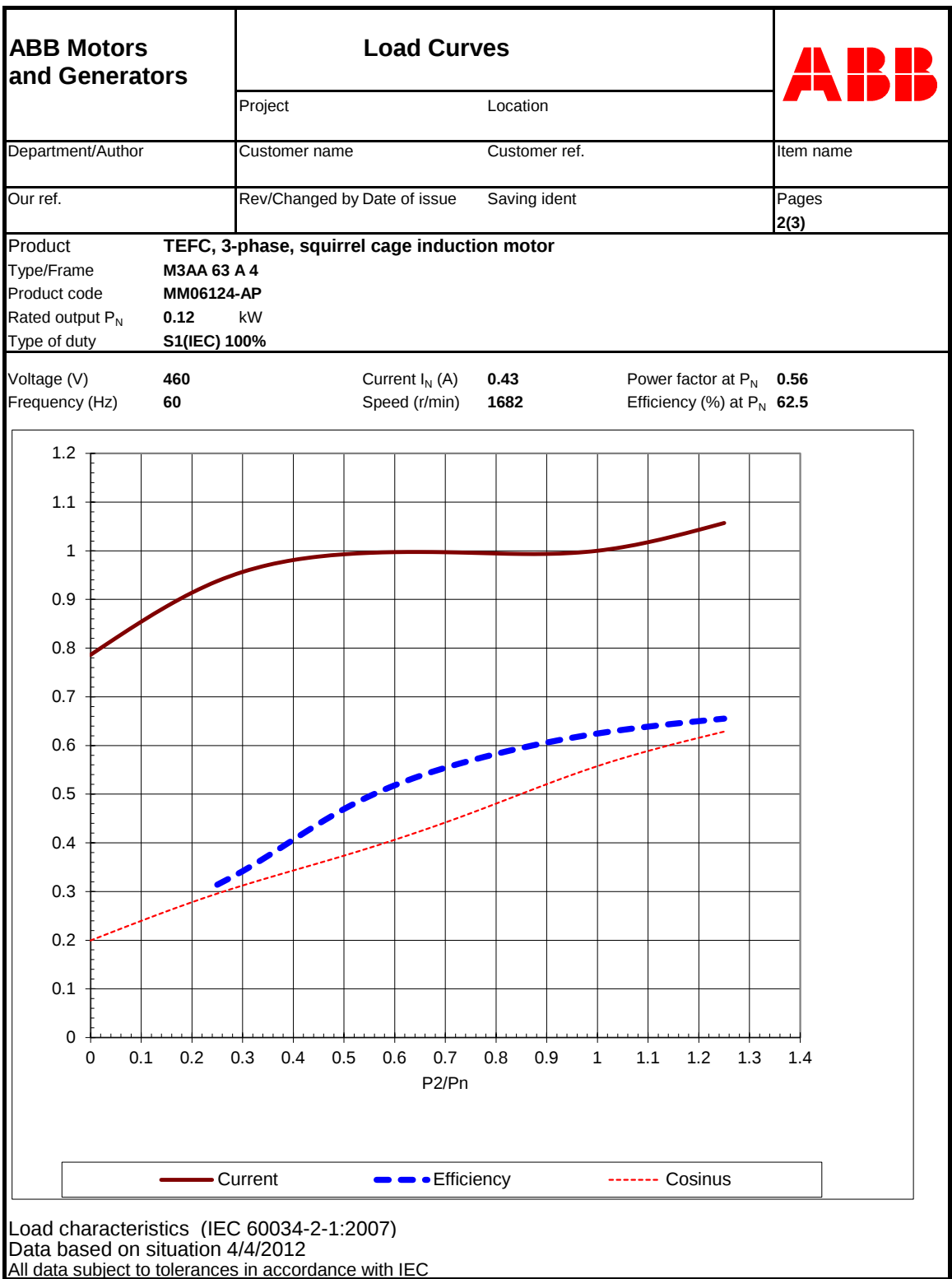
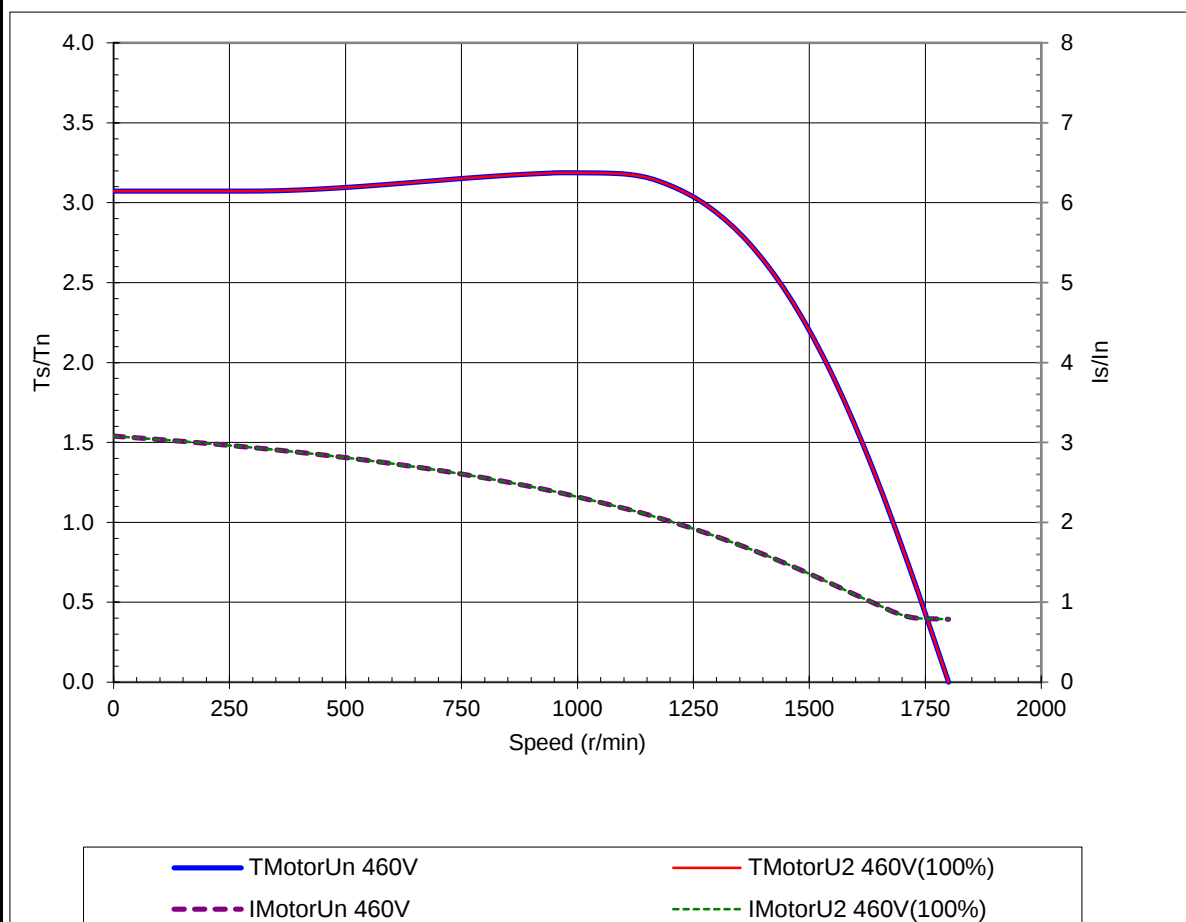


ABB Motors and Generators	Starting Curves		ABB
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b	Date of issue	Saving ident
			Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3AA 63 A 4		
Product code	MM06124-AP	Frequency (Hz)	60
Rated output P_N	0.12 kW	Rated current I_N	0.43 A
Type of duty	S1(IEC) 100%		

J_{motor} (kgm ²)	0.0002	Voltage (V) 100%	460	Voltage (V)	460V(100%)
J_{load} (kgm ²)		T_{start}/T_N	3.1	T_{start}/T_N	3.1
Speed (r/min)	1681	Starting time (s)		Run-up time (s)	
T_N (Nm)	0.68	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_N	3.1	I_s/I_N	3.1
Nbr. of consecutive starts		T_{max}/T_N	3.2	T_{max}/T_N	3.2



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