

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)	

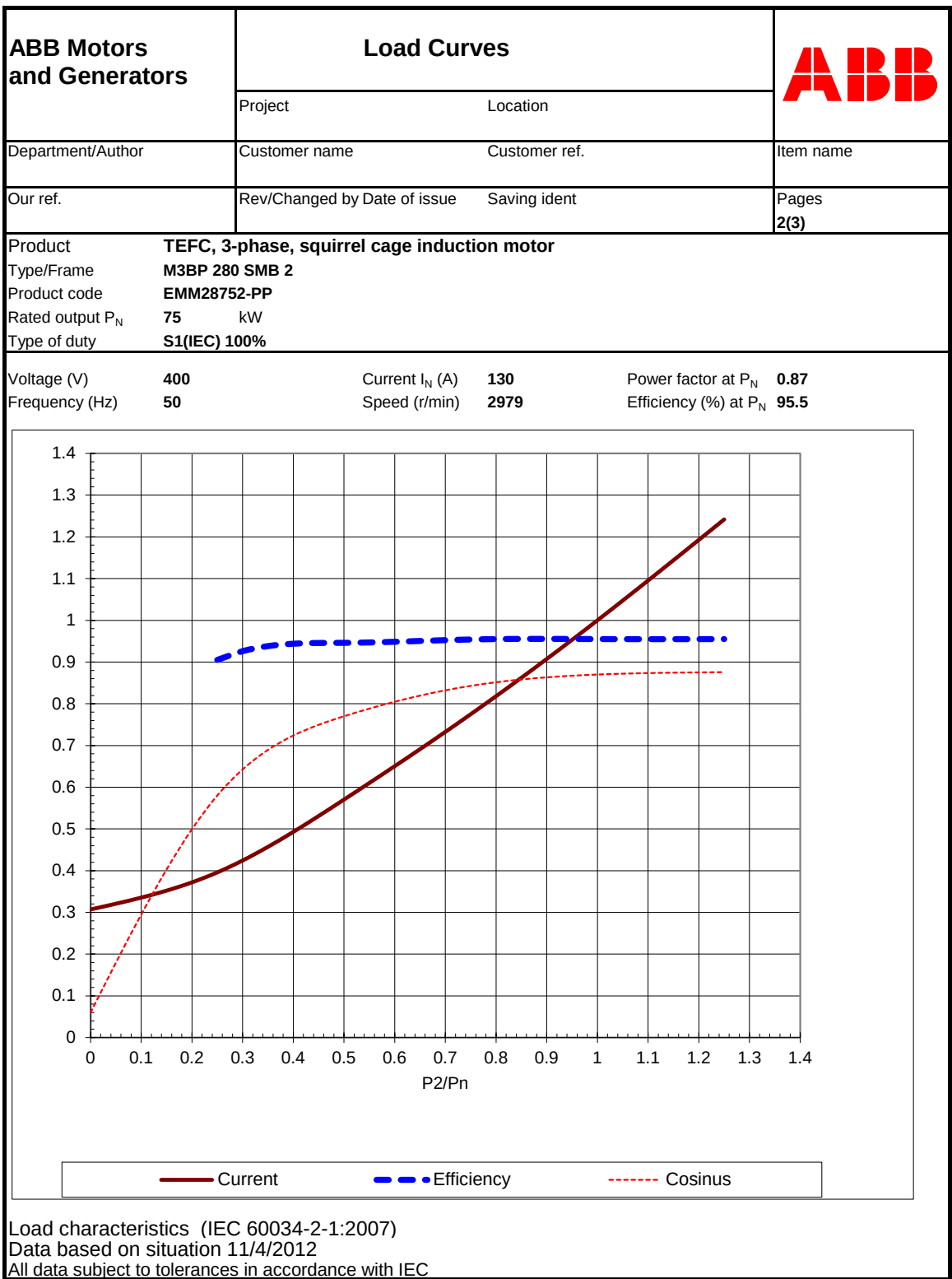
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	EMM28752-PP (3GBP281220-ADK+332+509+531)		
3	Type/Frame	M3BP 280 SMB 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	75	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	400	VD	± 5 % (IEC 60034-1)
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	2979	r/min	
11	Rated current I _N	130	A	
12	No-load current	40	A	
13	Starting current I _s /I _N	7.3		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	240	Nm	
15	Locked rotor torque T _S /T _N	2.1		
16	Maximum torque T _{max} /T _N	2.9		
17	Minimum torque T _{min} /T _N	2		
18	Speed at minimum torque	2250	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	130	95.5 / IE3
21		75	100	95.4
22		50	74.3	94.6
23		Start	951	0.35
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	6316/C3 - 6316/C3		
32	Type of Grease	Lithium based		
33	Sound pressure level (LP dB(A) 1m)	77	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.9	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	2xM63x1.5 + 2xM20x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	665	kg	
42				

Variant Codes / Definition

332 = Baldor catalog number
509 = Fulfilling EISA Subtype I efficiency requirements, CC031A
531 = Sea freight packaging

Remarks:

Data based on situation 11/4/2012
 All data subject to tolerances in accordance with IEC
 Guaranteed values on request



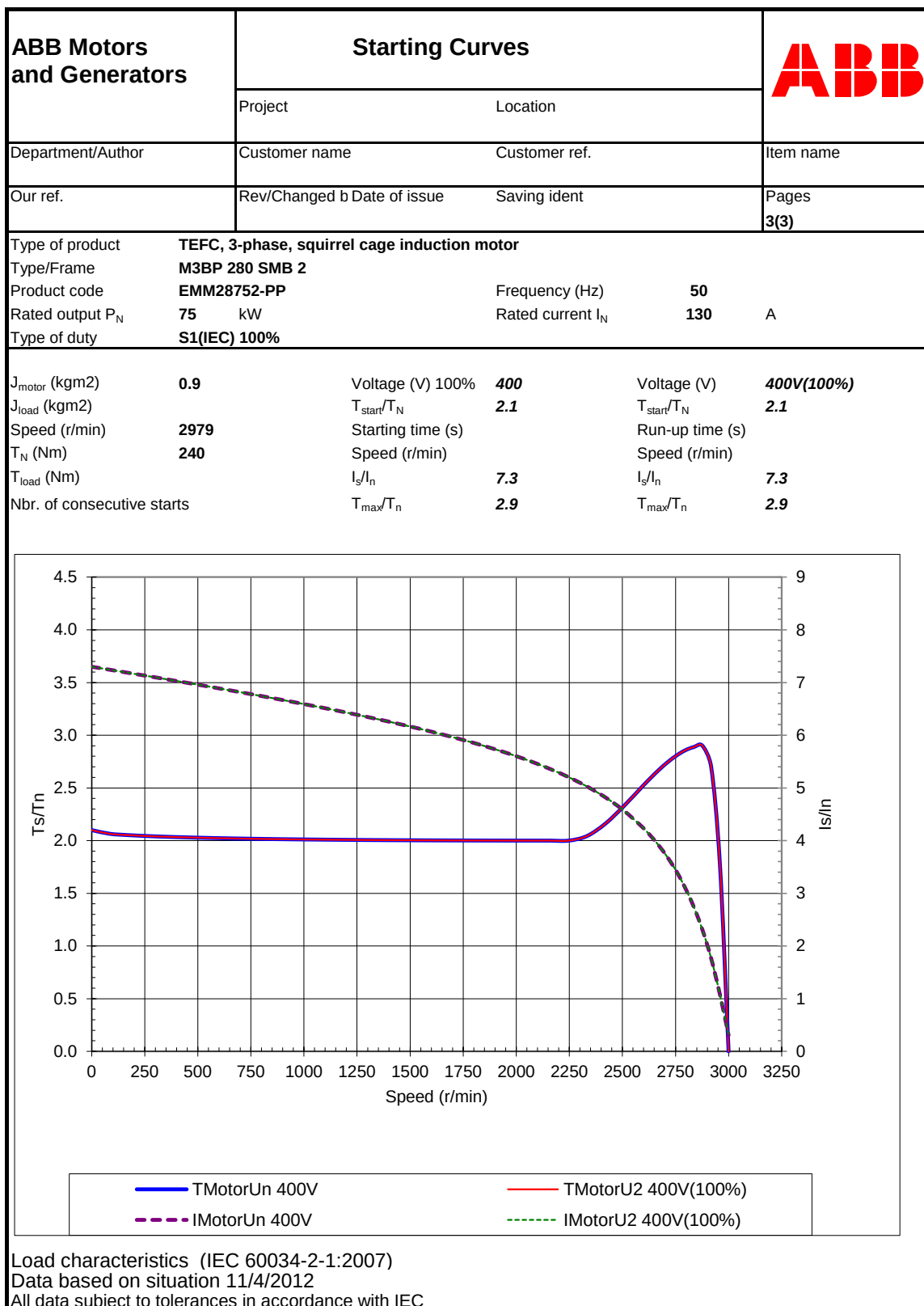


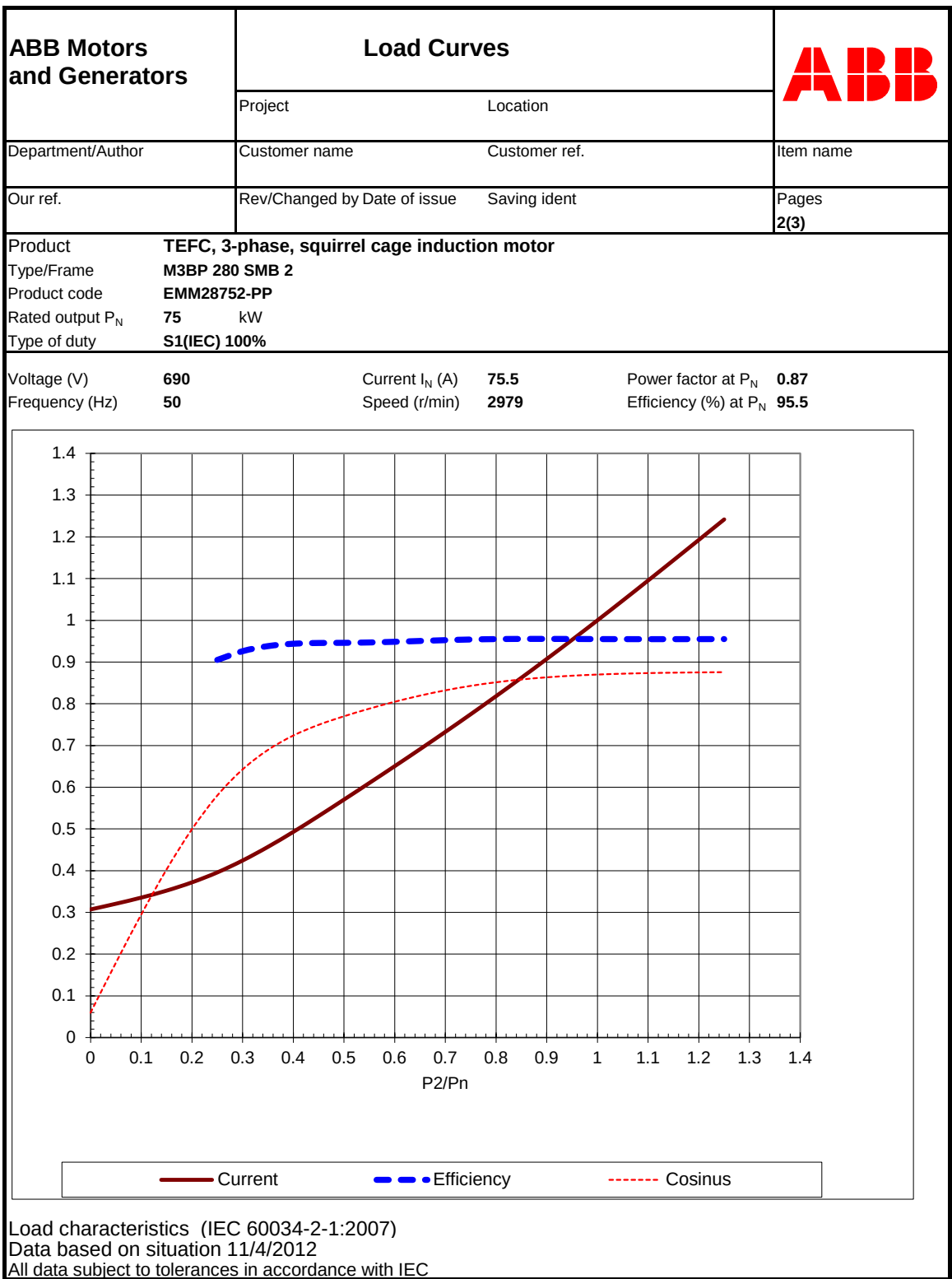
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3	Type/Frame	M3BP 280 SMB 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	75	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	690	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	2979	r/min		
11	Rated current I _N	75.5	A		
12	No-load current	23	A		
13	Starting current I _s /I _N	7.3		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	240	Nm		
15	Locked rotor torque T _S /T _N	2.1			
16	Maximum torque T _{max} /T _N	2.9			
17	Minimum torque T _{min} /T _N	2			
18	Speed at minimum torque	2250	r/min		
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor
20	PLL determined from residual loss	100	75.5	95.5 / IE3	0.87
21		75	58.5	95.4	0.84
22		50	43	94.6	0.77
23		Start	551		0.35
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	6316/C3 - 6316/C3			
32	Type of Grease	Lithium based			
33	Sound pressure level (LP dB(A) 1m)	77	dB(A)	at load	
34	Moment of inertia J = ¼ GD2	0.9	kg-m2		
35	Balancing	Half Key			
36	Vibration class	Grade A			
37	Position of terminal box	Top			
38	Terminal box entries; no, dimens.	2xM63x1.5 + 2xM20x1.5			
39	Number of power terminals	6			
40	Direction of rotation	CW or CCW			
41	Total weight of motor	665	kg		
42					

Variant Codes / Definition
 332 = Baldor catalog number
 509 = Fulfilling EISA Subtype I efficiency requirements, CC031A
 531 = Sea freight packaging

Remarks:

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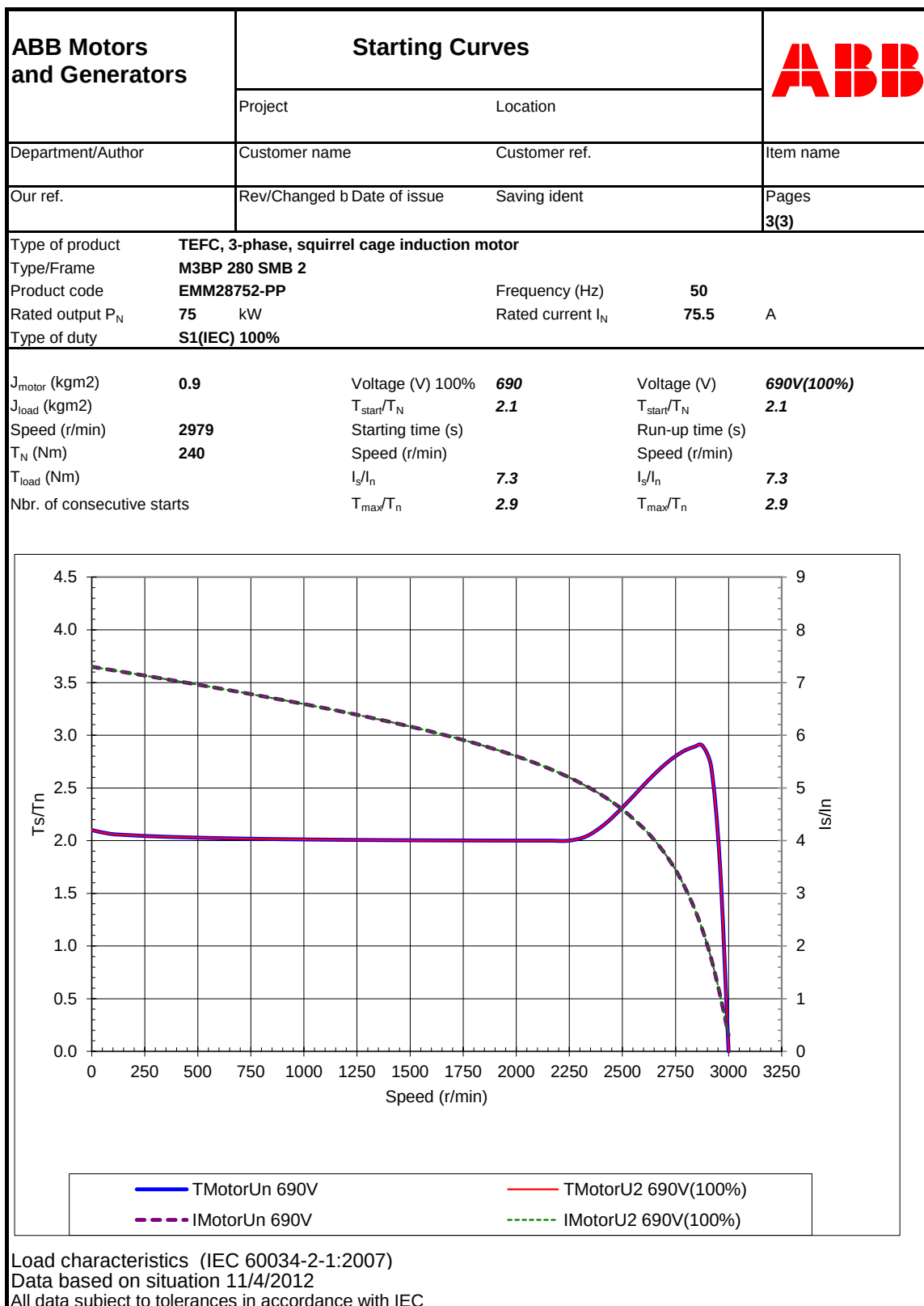


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3	Type/Frame	M3BP 280 SMB 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	75	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U _N	460	VD	± 5 % (IEC 60034-1)
9	Rated frequency f _N	60	Hz	± 2 % (IEC 60034-1)
10	Rated speed n _N	3581	r/min	
11	Rated current I _N	115	A	
12	No-load current	32	A	
13	Starting current I _s /I _N	8.2		Not within IEC 60034-12 design N,H
14	Nominal torque T _N	200	Nm	
15	Locked rotor torque T _S /T _N	2.1		
16	Maximum torque T _{max} /T _N	3.2		
17	Minimum torque T _{min} /T _N	2		
18	Speed at minimum torque	2592	r/min	
19	Load characteristics (IEEE 112 B: 2004)	Load %	Current A	Efficiency %
20	NEMA nominal efficiency (*)	100	115	95.0 / IE3 / 93.6
21		75	90.1	94.4
22		50	66.6	92.9
23		Start	944	0.35
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	6316/C3 - 6316/C3		
32	Type of Grease	Lithium based		
33	Sound pressure level (LP dB(A) 1m)	81	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.9	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dimens.	2xM63x1.5 + 2xM20x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Total weight of motor	665	kg	
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Variant Codes / Definition

332 = Baldor catalog number
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Remarks:

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