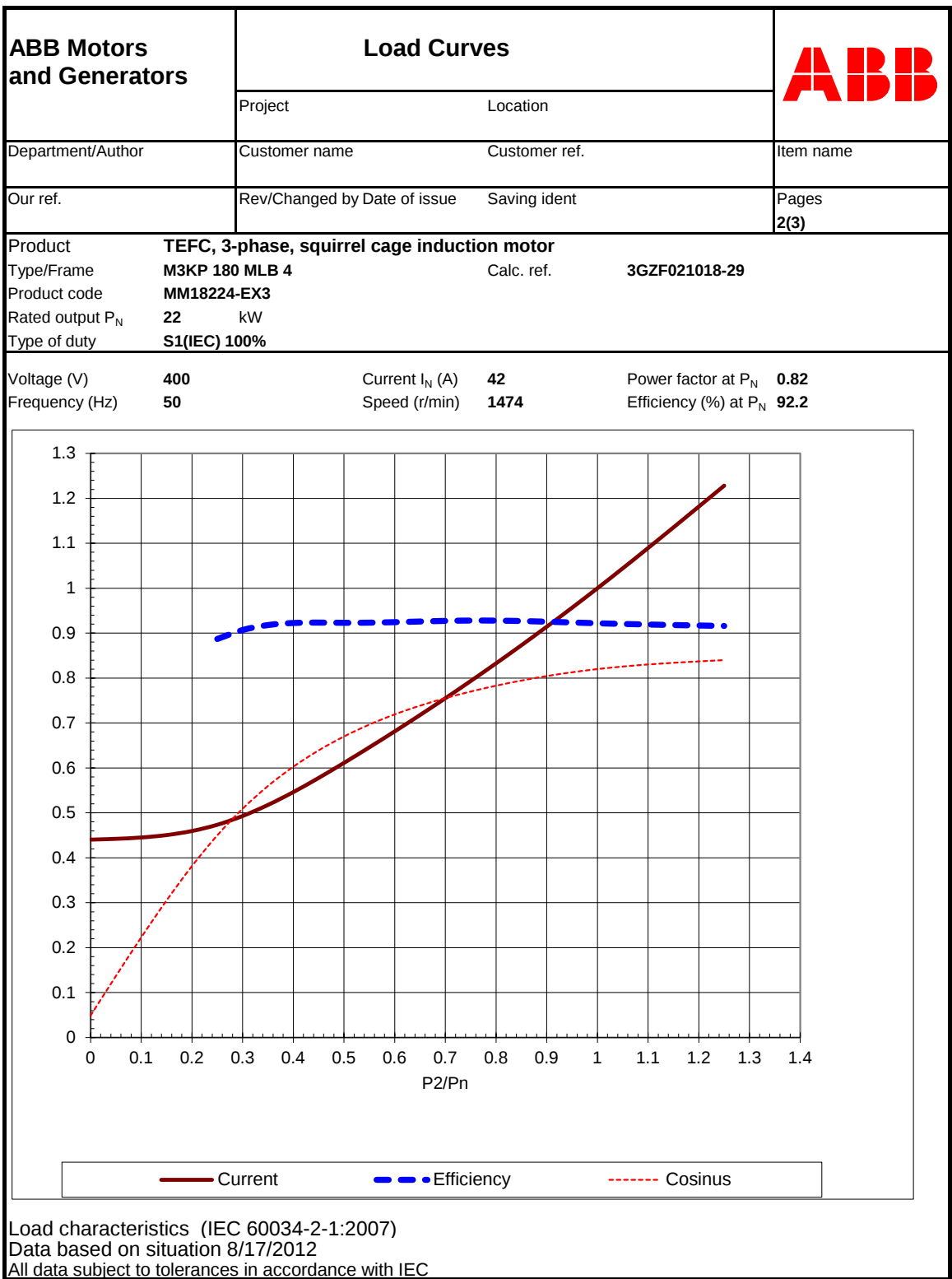


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author		Customer name	Customer ref.		Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM18224-EX3 (3GKP182420-ADH+332+461)		
3	Type/Frame	M3KP 180 MLB 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	22	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	1474	r/min	
11	Rated current I _N	42	A	
12	No-load current	18.5	A	
13	Starting current I _s /I _N	7.9		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	143	Nm	
15	Locked rotor torque T _S /T _N	2.9		
16	Maximum torque T _{max} /T _N	3.4		
17	Minimum torque T _{min} /T _N	2.5		
18	Speed at minimum torque	225	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency % Power factor
20	PLL determined from residual loss	100	42	92.2 / IE2 0.82
21		75	33.3	92.8 0.77
22		50	25.6	92.3 0.67
23		Start	331	0.5
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	6310/C3 - 6310/C3		
32	Type of Grease	Lithium based		
33	Sound pressure level (LP dB(A) 1m)	62	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.23	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dims.	2xM40x1.5 + 2xM20x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Weight of rotor	60	kg	
42	Total weight of motor	290	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 8/17/2012				
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.				



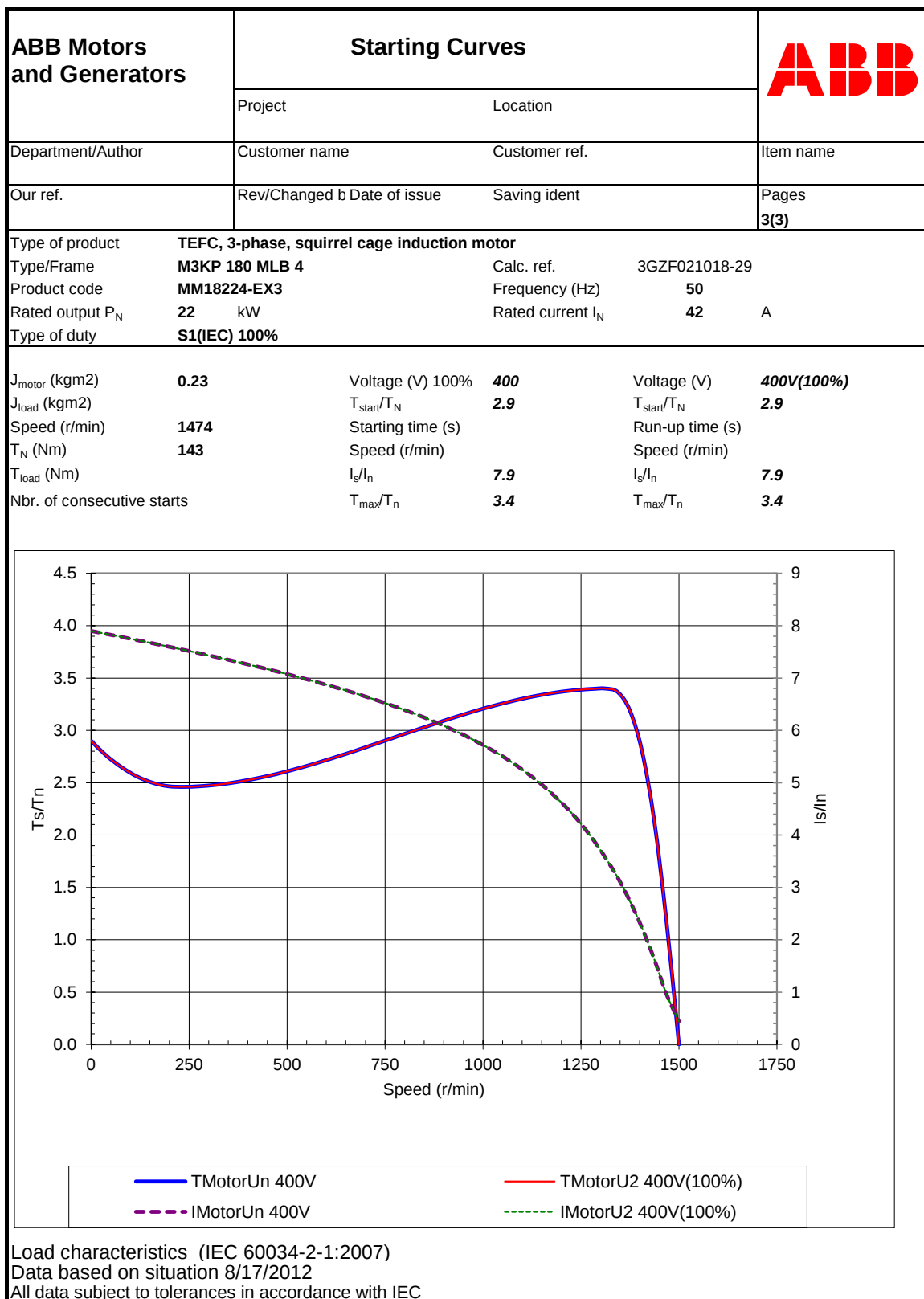


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project		Location	
Department/Author		Customer name		Customer ref.	Item name
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)

No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM18224-EX3 (3GKP182420-ADH+332+461)		
3	Type/Frame	M3KP 180 MLB 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	22	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	1476	r/min	
11	Rated current I _N	41.4	A	
12	No-load current	20	A	
13	Starting current I _s /I _N	8.4		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	142	Nm	
15	Locked rotor torque T _S /T _N	3.2		
16	Maximum torque T _{max} /T _N	3.7		
17	Minimum torque T _{min} /T _N	2.6		
18	Speed at minimum torque	225	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency % Power factor
20	PLL determined from residual loss	100	41.4	92.2 / IE2 0.8
21		75	33.4	92.7 0.74
22		50	26.4	91.9 0.63
23		Start	348	0.51
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	6310/C3 - 6310/C3		
32	Type of Grease	Lithium based		
33	Sound pressure level (LP dB(A) 1m)	62	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.23	kg-m2	
35	Balancing	Half Key		
36	Vibration class	Grade A		
37	Position of terminal box	Top		
38	Terminal box entries; no, dims.	2xM40x1.5 + 2xM20x1.5		
39	Number of power terminals	6		
40	Direction of rotation	CW or CCW		
41	Weight of rotor	60	kg	
42	Total weight of motor	290	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 8/17/2012				
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.				

