


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name	Customer ref.		Item name	
				1.00021	
Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages	
	A	21/11/2017	wimes stock.do2.xls	1(3)	
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GBA 311 220-ADM		Calc. ref. 3GZF021031-535	
3	Type/Frame	M2BAX 315SMB 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	110	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	2982	r/min		
11	Rated current I _N	192	A		
12	No-load current	52	A		
13	Starting current I _s /I _N	7		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	352	Nm		
15	Locked rotor torque T _s /T _N	1.8			
16	Maximum torque T _{max} /T _N	2.7			
17	Minimum torque T _{min} /T _N	1.7			
18	Speed at minimum torque	2460	r/min		
	Load characteristics (IEC 60034-2-1:2014)	Load %	Current A	Efficiency %	
19	PLL determined from residual loss	100	192	95.2 / IE3	
20		75	149	94.9	
21		50	108	93.9	
22		Start	1344	0.22	
23	Maximum starting time from hot	15	s		
24	Maximum starting time from cold	27	s		
25	Insulation class / Temperature class	F / B			
26	Ambient temperature	40	°C		
27	Altitude	1000	m.a.s.l.		
28	Enclosure	IP55			
29	Cooling system	IC411 self ventilated			
30	Bearing DE/NDE	6217/C3 - 6217/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	78	dB(A)	at load	
33	Moment of inertia J = ¼ GD ²	1.3	kg-m ²		
34	Balancing				
35	Vibration class				
36	Position of terminal box	Top			
37	Terminal box entries; no, dimens.				
38	Number of power terminals				
39	Direction of rotation	CW or CCW			
40	Weight of rotor	155	kg		
41	Total weight of motor	801	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46					
47					
48					
Option Variant Codes / Definition					
49					
50					
51					
52					
Remarks:					
Data based on situation 10/10/2017					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					

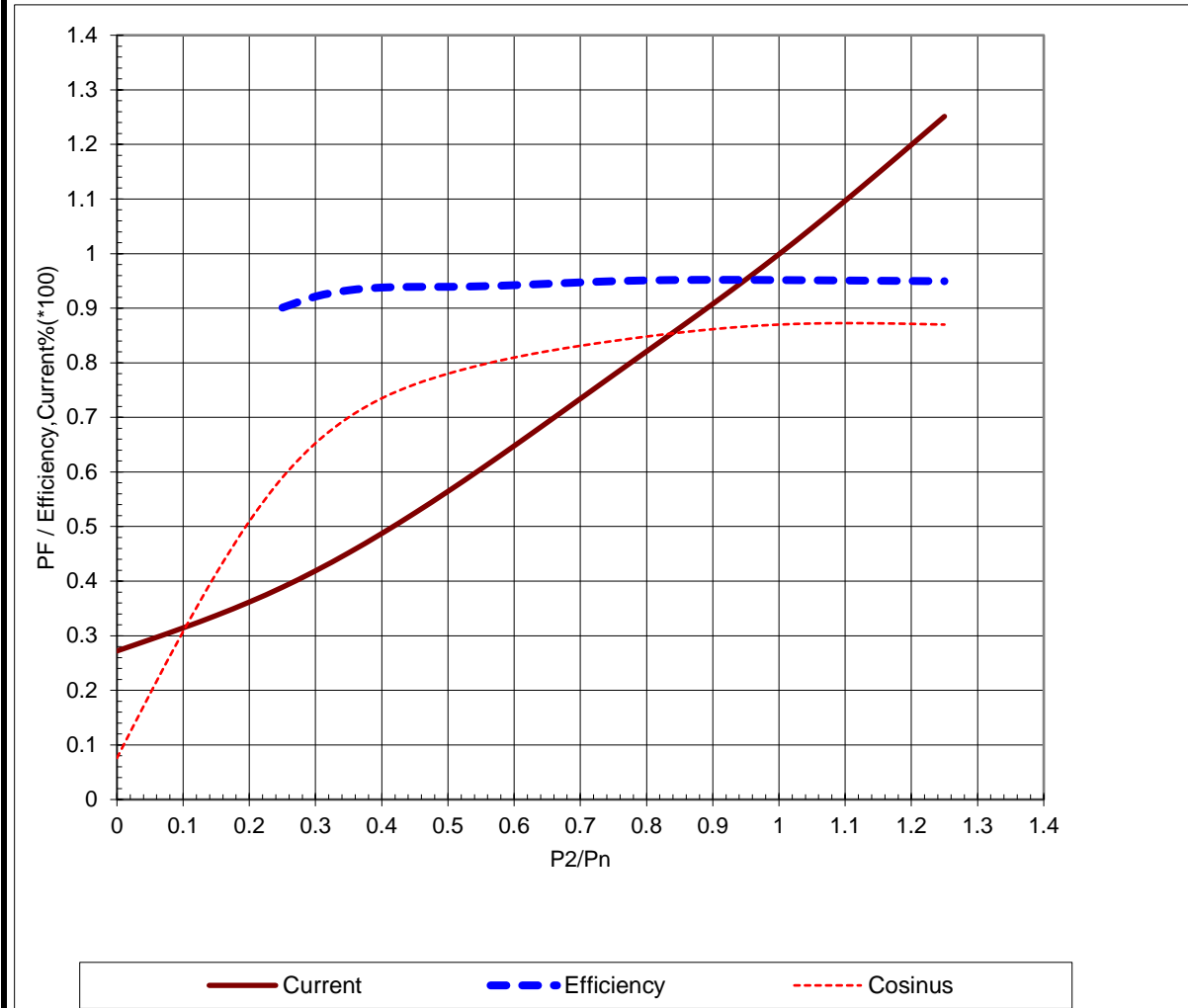
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Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages
	A	21/11/2017	wimes stock.do2.xls	2(3)

Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M2BAX 315SMB 2	Calc. ref.	3GZF021031-535
Product code	3GBA 311 220-ADM		
Rated output P _N	110	kW	
Type of duty	S1(IEC) 100%		

Voltage (V)	400	Current I _N (A)	192	Power factor at P _N	0.87
Frequency (Hz)	50	Speed (r/min)	2982	Efficiency (%) at P _N	95.2



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 10/10/2017

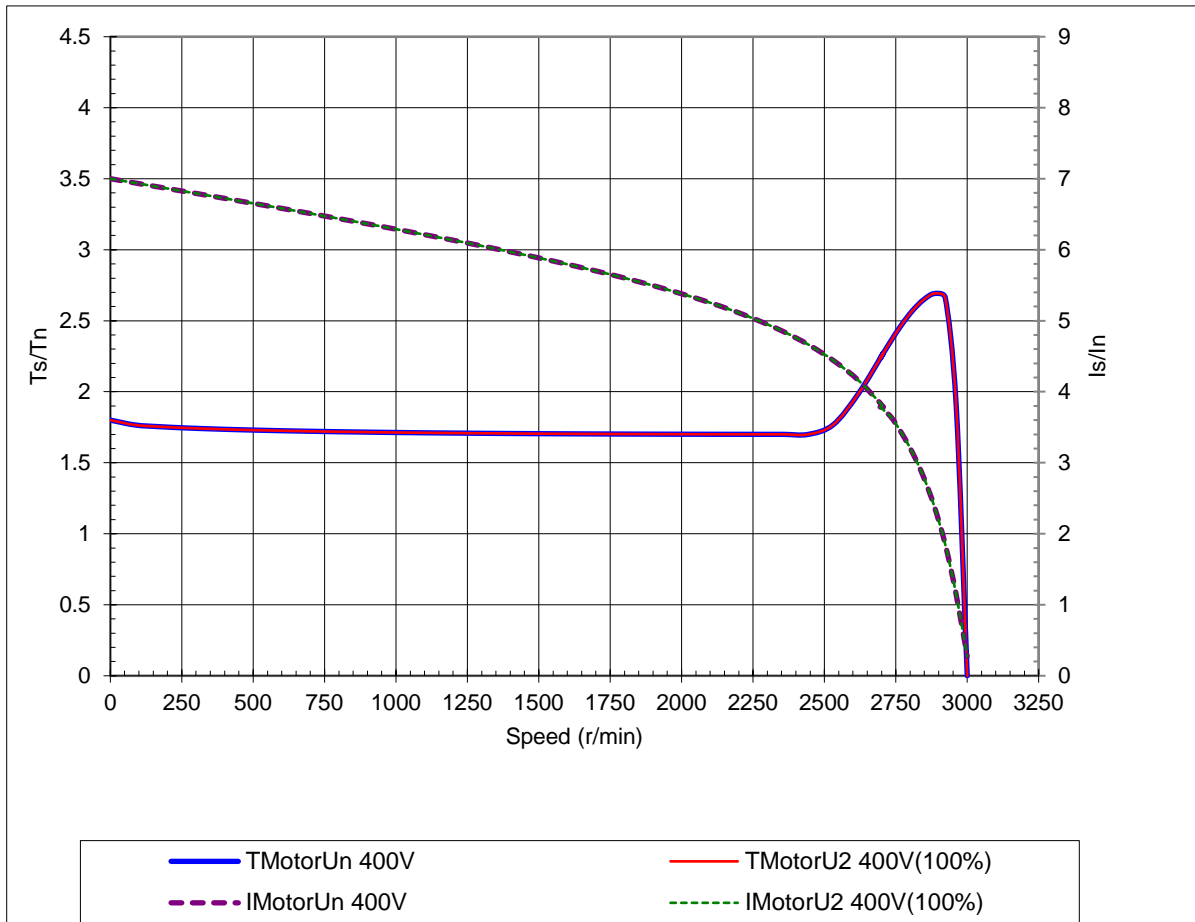
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Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M2BAX 315SMB 2	Calc. ref.	3GZF021031-535
Product code	3GBA 311 220-ADM	Frequency (Hz)	50
Rated output P _N	110 kW	Rated current I _N	192 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm ²)	1.3	Voltage (V) 100%	400	Voltage (V)	400V(100%)
J _{load} (kgm ²)		T _{start} /T _N	1.8	T _{start} /T _N	1.8
Speed (r/min)	2982	Starting time (s)		Starting time (s)	
T _N (Nm)	352	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	7	I _s /I _n	7
Nbr. of Consecutive Starts at UN		T _{max} /T _n	2.7	T _{max} /T _n	2.7



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 10/10/2017

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