


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name	Customer ref.		Item name	
				1.00025	
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 351 210-ADM		Calc. ref. 3GZF021035-512	
3	Type/Frame	M2BAX 355SMA 2			
4	Mounting	IM1001, B3(foot)			
5	Rated output P _N	250	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	2985	r/min		
11	Rated current I _N	423	A		
12	No-load current	106	A		
13	Starting current I _s /I _N	7.7		Fullfilled IEC 60034-12 design N,H	
14	Nominal torque T _N	800	Nm		
15	Locked rotor torque T _s /T _N	2.1			
16	Maximum torque T _{max} /T _N	3.3			
17	Minimum torque T _{min} /T _N	1.8			
18	Speed at minimum torque	2400	r/min		
	Load characteristics (IEC 60034-2-1:2014)	Load %	Current A	Efficiency %	
19	PLL determined from residual loss	100	423	95.8 / IE3	
20		75	325	95.6	
21		50	235	94.6	
22		Start	3274	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	6219/C3 - 6219/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	83	dB(A)	at load	
33	Moment of inertia J = ¼ GD ²	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	286	kg		
41	Total weight of motor	1412	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					

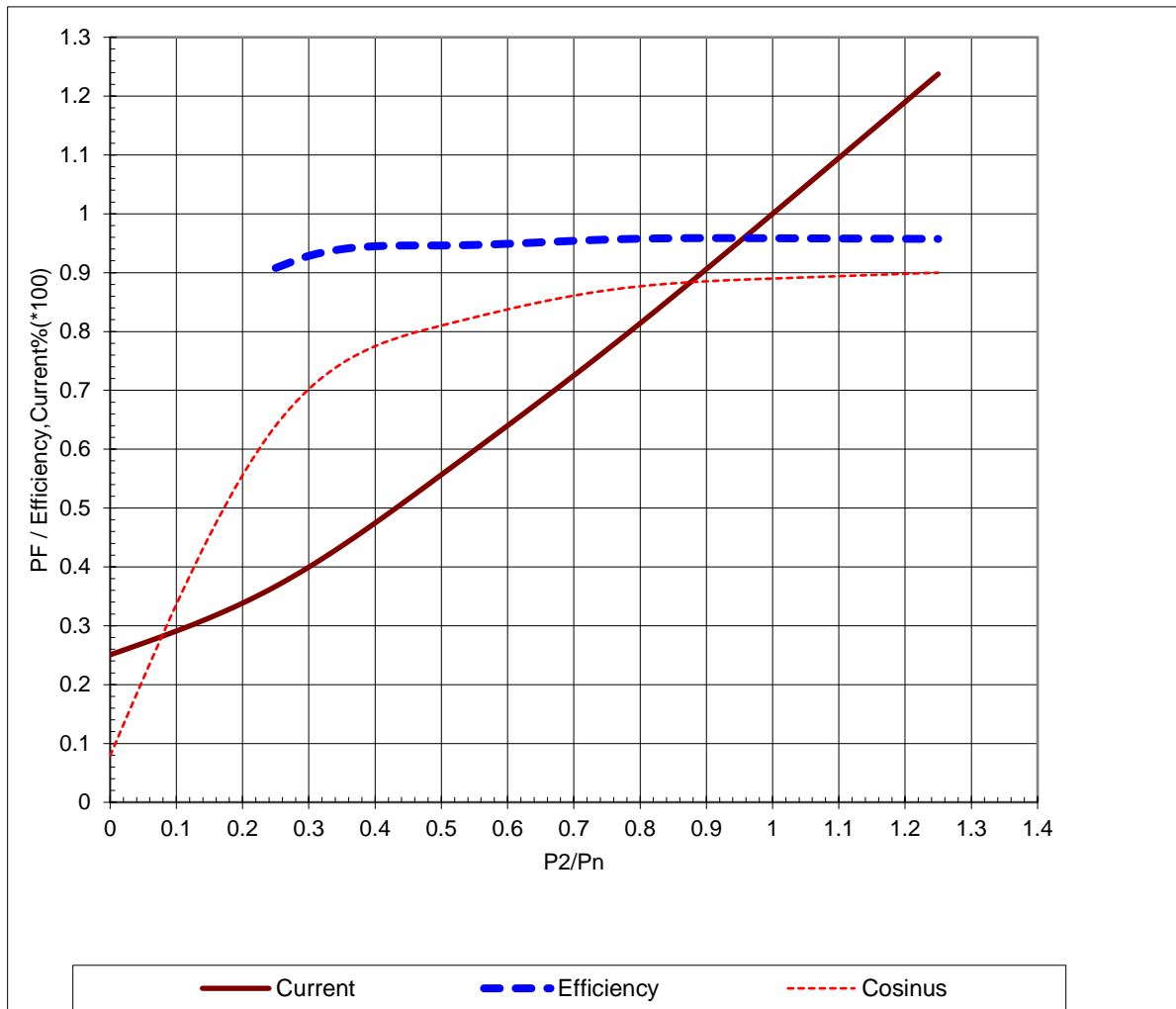
Project _____ Location _____

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

Product **TEFC, 3-phase, squirrel cage induction motor**
 Type/Frame **M2BAX 355SMA 2** Calc. ref. **3GZF021035-512**
 Product code **3GBA 351 210-ADM**
 Rated output P_N **250 kW**
 Type of duty **S1(IEC) 100%**

Voltage (V) **400** Current I_N (A) **423** Power factor at P_N **0.89**
 Frequency (Hz) **50** Speed (r/min) **2985** Efficiency (%) at P_N **95.8**



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

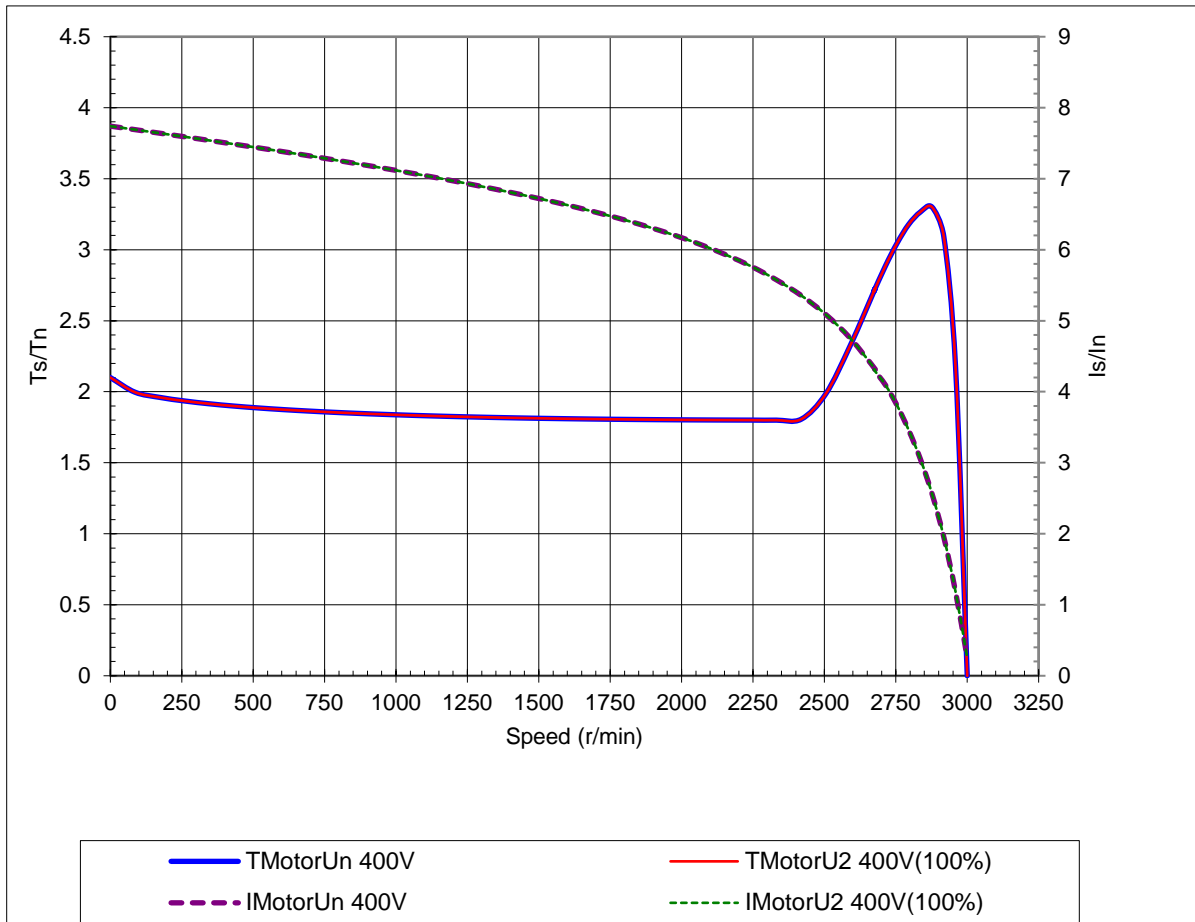
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Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M2BAX 355SMA 2	Calc. ref.	3GZF021035-512
Product code	3GBA 351 210-ADM	Frequency (Hz)	50
Rated output P _N	250 kW	Rated current I _N	423 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm ²)	3	Voltage (V) 100%	400	Voltage (V)	400V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.1	T _{start} /T _N	2.1
Speed (r/min)	2985	Starting time (s)		Starting time (s)	
T _N (Nm)	800	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	7.7	I _s /I _n	7.7
Nbr. of Consecutive Starts at UN		T _{max} /T _n	3.3	T _{max} /T _n	3.3



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

All data subject to tolerances in accordance with IEC