


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author	Customer name	Customer ref.		Item name	
				1,00001	
Our ref.	Rev/Changed by	Date of issue	Saving ident	Pages	
CQ461134	A	26.08.2020	untitled.xlsm	1(3)	
No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	3GKP 082 470-BDK		Calc. ref. 3GZF021008-210	
3	Type/Frame	M3KP 80MLG 4			
4	Mounting	IM3011, V1(flange)			
5	Rated output P _N	0,75	kW		
6	Service factor	1			
7	Type of duty	S1(IEC) 100%			
8	Rated voltage U _N	380	VD	± 10 % (IEC 60034-1)	
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n _N	1436	r/min		
11	Rated current I _N	1,68	A		
12	No-load current	1,05	A		
13	Starting current I _s /I _N	6,4		Meet IEC 60034-12, N	
14	Nominal torque T _N	5	Nm		
15	Locked rotor torque T _s /T _N	2,8			
16	Maximum torque T _{max} /T _N	3,3			
17	Minimum torque T _{min} /T _N	2,0			
18	Speed at minimum torque	270	r/min		
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	100	1,68	83,3 / IE3	0,81
20		75	1,34	84,8	0,75
21		50	1,05	84,4	0,64
22		Start	10,8		0,71
23	Maximum starting time from hot	20	s		
24	Maximum starting time from cold	36	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	6205-2Z/C3 - 6204-2Z/C3			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	57	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	0,0033	kg-m2		
34	Balancing				
35	Vibration class				
36	Position of terminal box	Top			
37	Terminal box entries; no, dims.				
38	Number of power terminals				
39	Direction of rotation	CW or CCW			
40	Weight of rotor	5	kg		
41	Total weight of motor	41	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46	Type of protection	Ex db eb IIC T4 Gb			
47	EC Type Examination No	LCIE 19 ATEX 3027 X			
48					
Option Variant Codes / Definition					
49	+066 Modified for specified mounting position - V1				
50	+005 Protective roof, vertical motor, shaft down.				
51	+734 Standard cable gland, Ex d IIC, armoured cable.				
52	+461 Ex d(e) design, Group II C				
53	+148 Routine test report.				
54	+179 Special paint specification. Munsell N 8.5				
55	+468 Cable entry from D-end				
56	+146 Type test with report for one motor from specific delivery batch.				
Remarks:					
Data based on situation 17.2.2020					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					

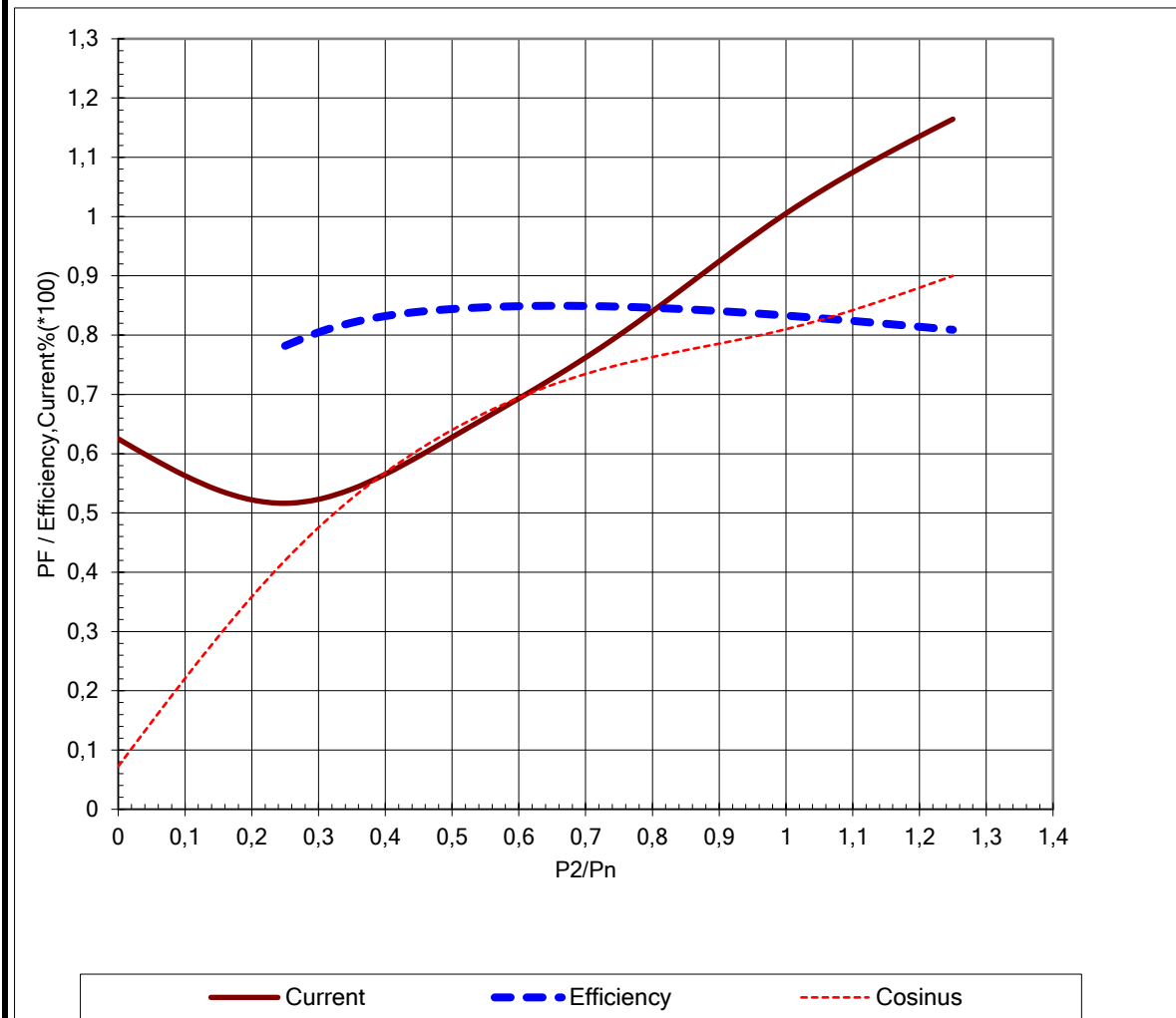
Project	Location
---------	----------

Department/Author	Customer name	Customer ref.	Item name 1,00001
-------------------	---------------	---------------	-----------------------------

Our ref.	Rev/Changed by Date of issue A	Saving ident untitled.xlsm	Pages 2(3)
----------	--	--------------------------------------	----------------------

Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3KP 80MLG 4	Calc. ref.	3GZF021008-210
Product code	3GKP 082 470-ADK		
Rated output P _N	0,75 kW		
Type of duty	S1(IEC) 100%		

Voltage (V)	380	Current I _N (A)	1,68	Power factor at P _N	0,81
Frequency (Hz)	50	Speed (r/min)	1436	Efficiency (%) at P _N	83,3



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 17.2.2020

All data subject to tolerances in accordance with IEC



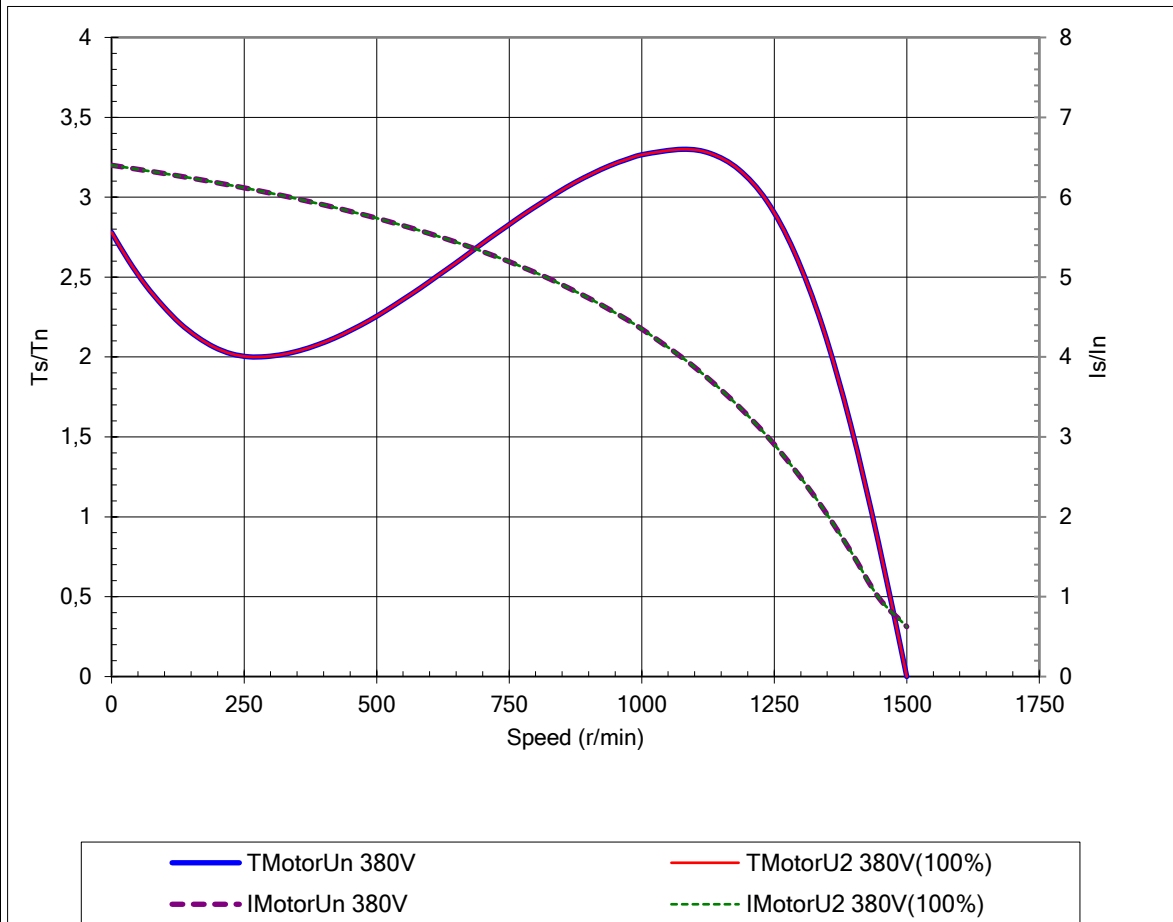
Project	Location
---------	----------

Department/Author	Customer name	Customer ref.	Item name
			1,00001

Our ref.	Rev/Changed b Date of issue	Saving ident	Pages
	A	untitled.xlsm	3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3KP 80MLG 4	Calc. ref.	3GZF021008-210
Product code	3GKP 082 470-ADK	Frequency (Hz)	50
Rated output P _N	0,75 kW	Rated current I _N	1,68 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm2)	0,0033	Voltage (V) 100%	380	Voltage (V)	380V(100%)
J _{load} (kgm2)		T _{start} /T _N	2,8	T _{start} /T _N	2,8
Speed (r/min)	1436	Starting time (s)		Starting time (s)	
T _N (Nm)	5	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	6,4	I _s /I _n	6,4
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 17.2.2020

All data subject to tolerances in accordance with IEC