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 **A**	Date of issue **3/19/2018**	Saving ident untitled.xls	Pages **1(3)**

No.	Definition	Data	Unit	Remarks	
1	Product	***TEFC, 3-phase, squirrel cage induction motor***			
2	Product code	***EMM08752-PP (3GBP 081 340-ACK)***		Calc. ref.	3GZF021008-136
3	Type/Frame	***M3BP 80MD 2***			
4	Mounting	***IM1001, B3(foot)***			
5	Rated output P_N	***0.75***	kW		
6	Service factor	***1***			
7	Type of duty	***S1(IEC) 100%***			
8	Rated voltage U_N	***460***	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f_N	***60***	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n_N	***3484***	r/min		
11	Rated current I_N	***1.33***	A		
12	No-load current	***0.53***	A		
13	Starting current I_s/I_N	***7.4***		Meet IEC 60034-12, N	
14	Nominal torque T_N	***2.1***	Nm		
15	Locked rotor torque T_S/T_N	***3.3***			
16	Maximum torque T_{max}/T_N	***4.2***			
17	Minimum torque T_{min}/T_N	***3.2***			
18	Speed at minimum torque	***612***	r/min		
	Load characteristics (CSA 390-10)	Load %	Current A	Efficiency %	Power factor
19	NEMA nominal efficiency (*)	*100*	**1.33**	**77.0 / IE3 / 75.5**	**0.86**
20		*75*	**1.15**	**75.8**	**0.81**
21		*50*	**0.92**	**71.3**	**0.72**
22		*Start*	**9.8**		**0.7**
23	Maximum starting time from hot	***17***	s		
24	Maximum starting time from cold	***31***	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	***6204-2Z/C3 - 6203-2Z/C3***			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	***60***	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	***0.0012***	kg-m2		
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	***3***	kg		
41	Total weight of motor	***18***	kg		
42	Dimension drawing no.				
43					
44					
45					
Ex-motors					
46					
47					
48					
Option	Variant Codes / Definition				
49	+509 Fulfilling EISA Subtype I efficiency requirements, CC031A				
50					
51					
52					

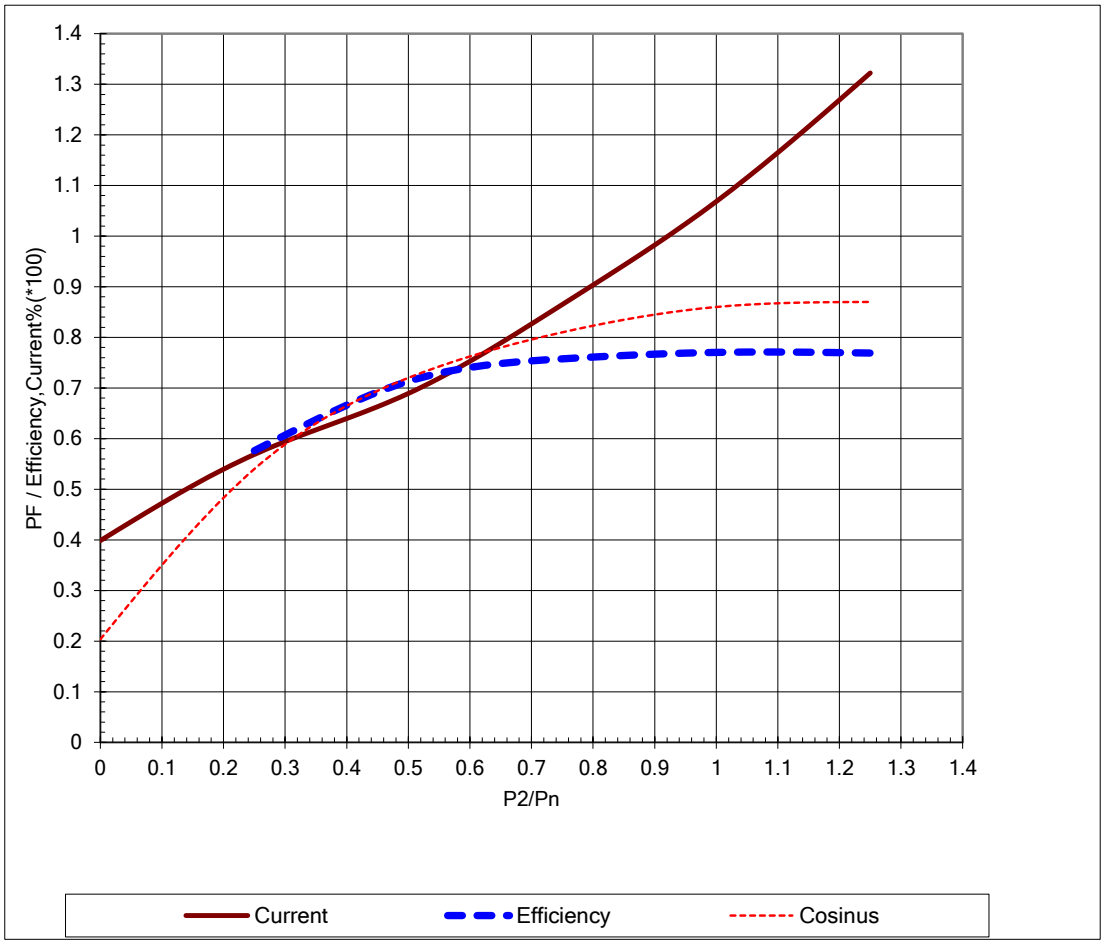
Remarks:

Data based on situation 7/6/2017
All data subject to tolerances in accordance with IEC
Guaranteed values on request

ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name **1.00001**
Our ref.	Rev/Changed by Date of issue A **3/19/2018**	Saving ident untitled.xls	Pages **2(3)**

Product	**TEFC, 3-phase, squirrel cage induction motor**		
Type/Frame	**M3BP 80MD 2**	Calc. ref.	**3GZF021008-136**
Product code	**EMM08752-PP**		
Rated output P_N	**0.75** kW		
Type of duty	**S1(IEC) 100%**		

Voltage (V)	**460**	**Current I_N (A)**	1.33	**Power factor at P_N**	**0.86**
Frequency (Hz)	**60**	**Speed (r/min)**	**3484**	**Efficiency (%) at P_N**	**77**



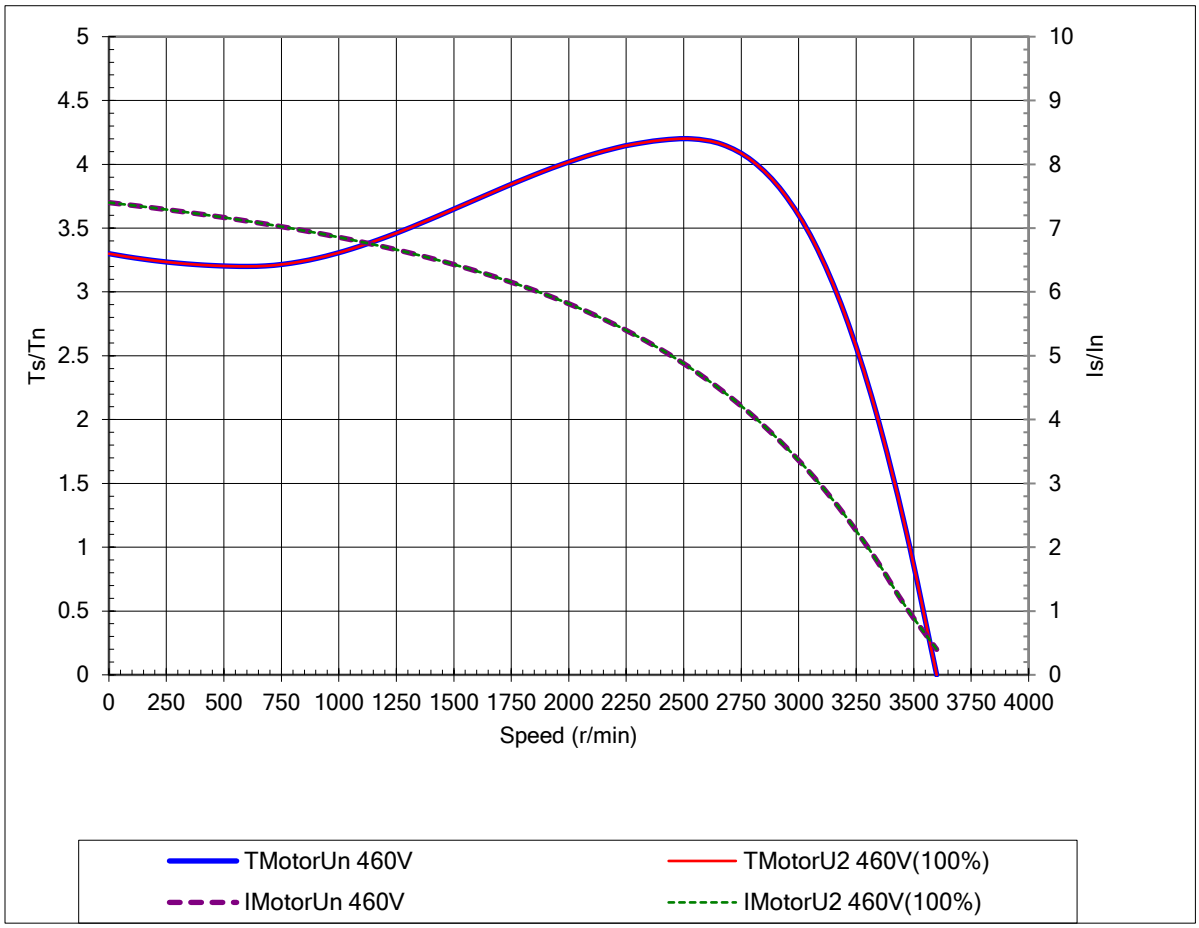
Load characteristics (CSA 390-10)
Data based on situation 7/6/2017

All data subject to tolerances in accordance with IEC

ABB Motors and Generators	Starting Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name **1.00001**
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages
	A **3/19/2018**	**untitled.xls**	**3(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M3BP 80MD 2**		Calc. ref.	3GZF021008-136	
Product code	**EMM08752-PP**		Frequency (Hz)	**60**	
Rated output P_N	**0.75** kW		Rated current I_N	**1.33**	A
Type of duty	**S1(IEC) 100%**				

J_{motor} (kgm2)	**0.0012**	Voltage (V) 100%	***460***	Voltage (V)	***460V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***3.3***	T_{start}/T_N	***3.3***
Speed (r/min)	**3484**	Starting time (s)		Starting time (s)	
T_N (Nm)	**2.1**	Speed (r/min)		Speed (r/min)	
T_{load} (Nm)		I_s/I_n	***7.4***	I_s/I_n	***7.4***
Nbr. of Consecutive Starts at UN		T_{max}/T_n	***4.2***	T_{max}/T_n	***4.2***



Load characteristics (CSA 390-10)
Data based on situation 7/6/2017

All data subject to tolerances in accordance with IEC