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 **23.09.2019**	Saving ident **untitled.xls**	Pages **1(3)**

No.	Definition	Data	Unit	Remarks	
1	Product	***TEFC, 3-phase, squirrel cage induction motor***			
2	Product code	***3GAA 081 612-ASJ***		Calc. ref.	3GZF021008-222
3	Type/Frame	***M3AA 80B 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	***400***	VY	± 5 % (IEC 60034-1)	
9	Rated frequency f_N	***50***	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n_N	***2885***	r/min		
11	Rated current I_N	***1,70***	A		
12	No-load current	***1,1***	A		
13	Starting current I_S/I_N	***7,5***		Meet IEC 60034-12, N	
14	Nominal torque T_N	***2,5***	Nm		
15	Locked rotor torque T_S/T_N	***4,1***			
16	Maximum torque T_{max}/T_N	***4,6***			
17	Minimum torque T_{min}/T_N	***4,1***			
18	Speed at minimum torque	***510***	r/min		
	Load characteristics (IEC 60034-2-1:2014)	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	*100*	**1,70**	**80,7 / IE3**	**0,76**
20		*75*	**1,53**	**80,9**	**0,66**
21		*50*	**1,30**	**80,2**	**0,52**
22		*Start*	**12,8**		**0,68**
23	Maximum starting time from hot	***16***	s		
24	Maximum starting time from cold	***29***	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	***0,002***	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	Total weight of motor	***9***	kg		
41	Dimension drawing no.				
42					
43					
44					
45					
Ex-motors					
46					
47					
48					
Option	Variant Codes / Definition				
49					
50					
51					
52					

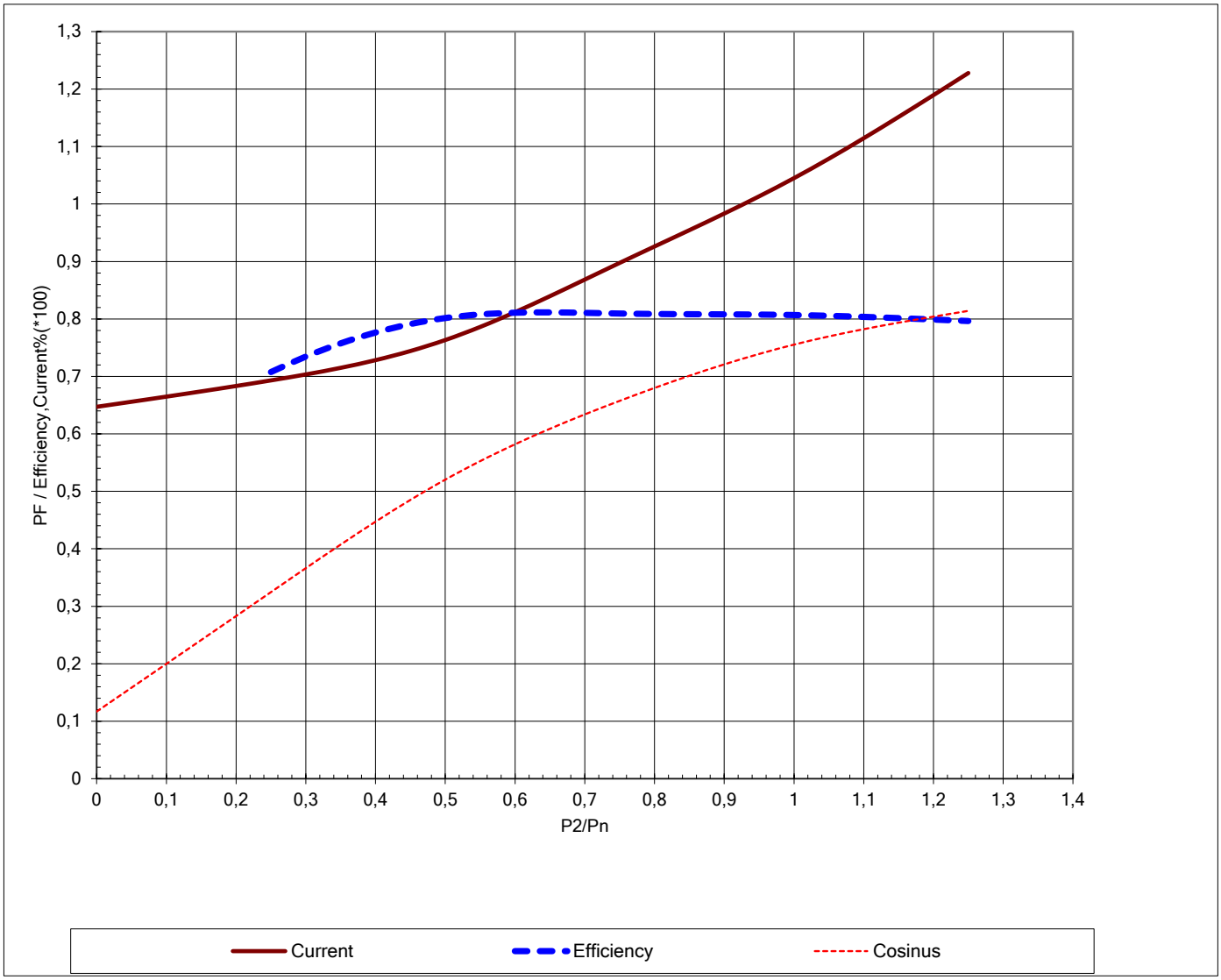
Remarks:

Data based on situation 05.07.2016
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 **A**	Date of issue **23.09.2019**	Saving ident **untitled.xls**	Pages **2(3)**

Product	**TEFC, 3-phase, squirrel cage induction motor**			
Type/Frame	**M3AA 80B 2**		Calc. ref.	**3GZF021008-222**
Product code	**3GAA 081 612-ASJ**			
Rated output P_N	**0,75**	kW		
Type of duty	**S1(IEC) 100%**			

Voltage (V)	**400**	Current I_N (A)	**1,70**	Power factor at P_N	**0,76**
Frequency (Hz)	**50**	Speed (r/min)	**2885**	Efficiency (%) at P_N	**80,7**



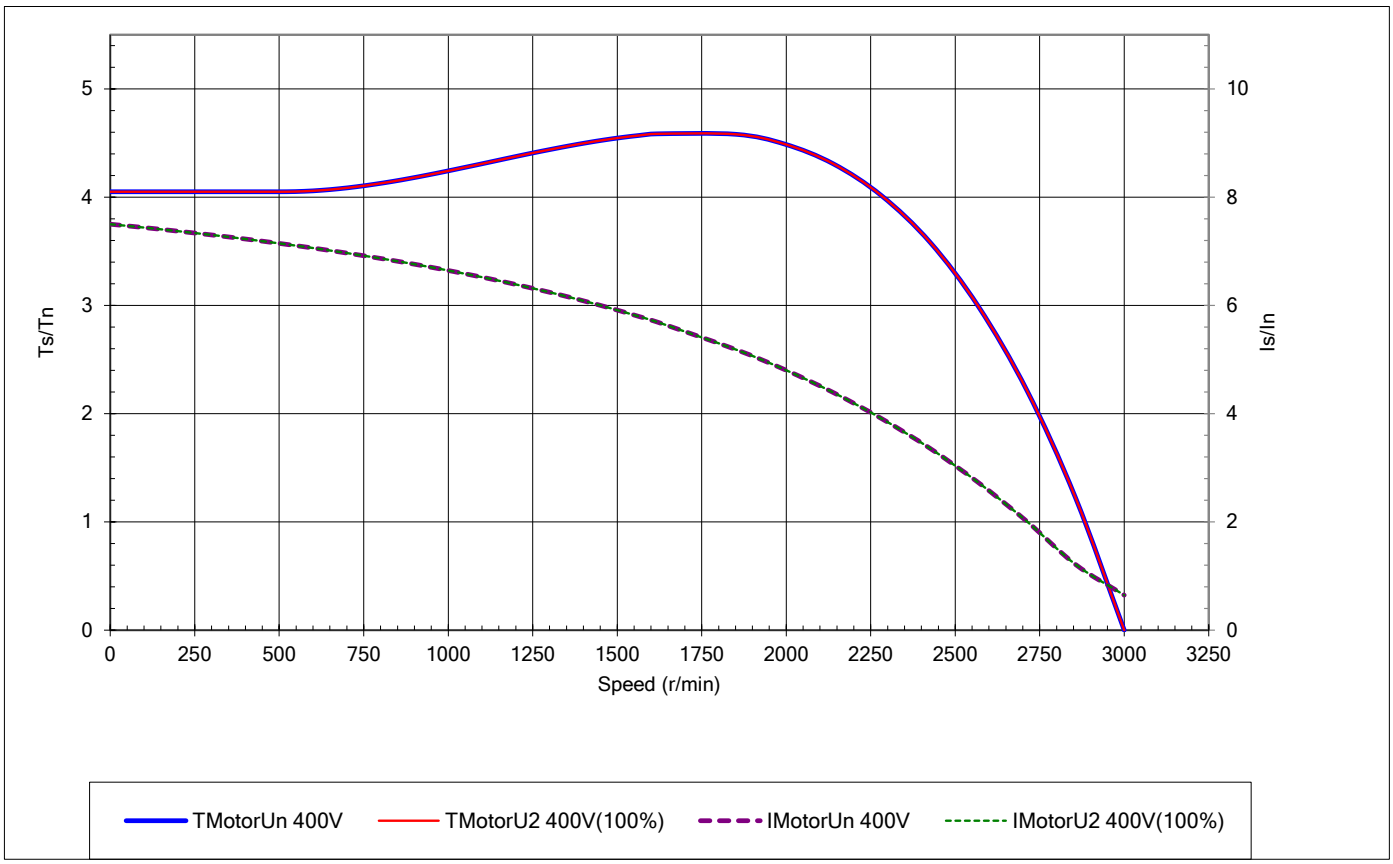
Load characteristics (IEC 60034-2-1:2014)
Data based on situation 05.07.2016

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 by **A**	Date of issue **23.09.2019**	Saving ident **untitled.xls**	Pages **3(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M3AA 80B 2**		Calc. ref.	3GZF021008-222	
Product code	**3GAA 081 612-ASJ**		Frequency (Hz)	**50**	
Rated output P_N	**0,75**	kW	Rated current I_N	**1,70**	A
Type of duty	**S1(IEC) 100%**				

J_{motor} (kgm2)	**0,002**	Voltage (V) 100%	***400***	Voltage (V)	***400V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***4,1***	T_{start}/T_N	***4,1***
Speed (r/min)	**2885**	Starting time (s)		Starting time (s)	
T_N (Nm)	**2,5**	Speed (r/min)	***0***	Speed (r/min)	***0***
T_{load} (Nm)		I_s/I_n	***7,5***	I_s/I_n	***7,5***
Nbr. of Consecutive Starts at UN		T_{max}/T_n	***4,6***	T_{max}/T_n	***4,6***



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 05.07.2016

All data subject to tolerances in accordance with IEC

ABB Motors and Generators	Technical Data Sheet - DOL			
	Project		Location	
Department/Author	Customer name		Customer ref.	Item name **2,00001**
Our ref.	Rev/Changed by **A**	Date of issue **23.09.2019**	Saving ident **untitled.xls**	Pages **1(3)**

No.	Definition	Data	Unit	Remarks	
1	Product	***TEFC, 3-phase, squirrel cage induction motor***			
2	Product code	***3GAA 081 612-ASJ***		Calc. ref.	3GZF021008-222
3	Type/Frame	***M3AA 80B 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	***230***	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f_N	***50***	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n_N	***2885***	r/min		
11	Rated current I_N	***2,9***	A		
12	No-load current	***1,54***	A		
13	Starting current I_S/I_N	***7,5***		Meet IEC 60034-12, N	
14	Nominal torque T_N	***2,5***	Nm		
15	Locked rotor torque T_S/T_N	***4,1***			
16	Maximum torque T_{max}/T_N	***4,6***			
17	Minimum torque T_{min}/T_N	***4,1***			
18	Speed at minimum torque	***510***	r/min		
	Load characteristics (IEC 60034-2-1:2014)	Load %	Current A	Efficiency %	Power factor
19	PLL determined from residual loss	*100*	**2,9**	**80,7 / IE3**	**0,76**
20		*75*	**2,7**	**80,9**	**0,66**
21		*50*	**2,3**	**80,2**	**0,52**
22		*Start*	**22,1**		**0,68**
23	Maximum starting time from hot	***50***	s		
24	Maximum starting time from cold	***90***	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	***0,002***	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	Total weight of motor	***9***	kg		
41	Dimension drawing no.				
42					
43					
44					
45					
Ex-motors					
46					
47					
48					
Option	Variant Codes / Definition				
49					
50					
51					
52					

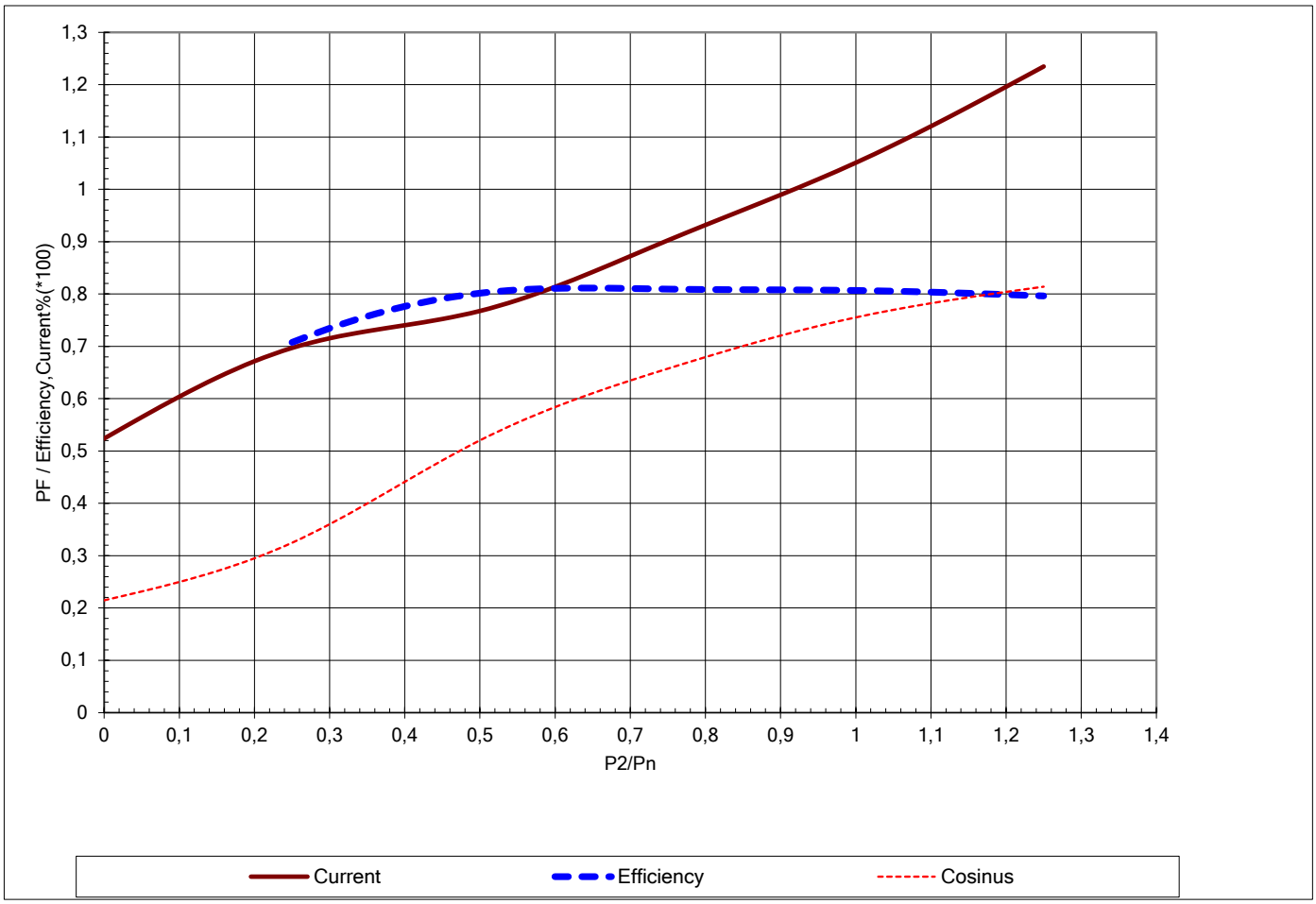
Remarks:

Data based on situation 05.07.2016
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 **2,00001**
Our ref.	Rev/Changed by **A**	Date of issue **23.09.2019**	Saving ident **untitled.xls**	Pages **2(3)**

Product	**TEFC, 3-phase, squirrel cage induction motor**			
Type/Frame	**M3AA 80B 2**		Calc. ref.	**3GZF021008-222**
Product code	**3GAA 081 612-ASJ**			
Rated output P_N	**0,75**	kW		
Type of duty	**S1(IEC) 100%**			

Voltage (V)	**230**	Current I_N (A)	**2,9**	Power factor at P_N	**0,76**
Frequency (Hz)	**50**	Speed (r/min)	**2885**	Efficiency (%) at P_N	**80,7**



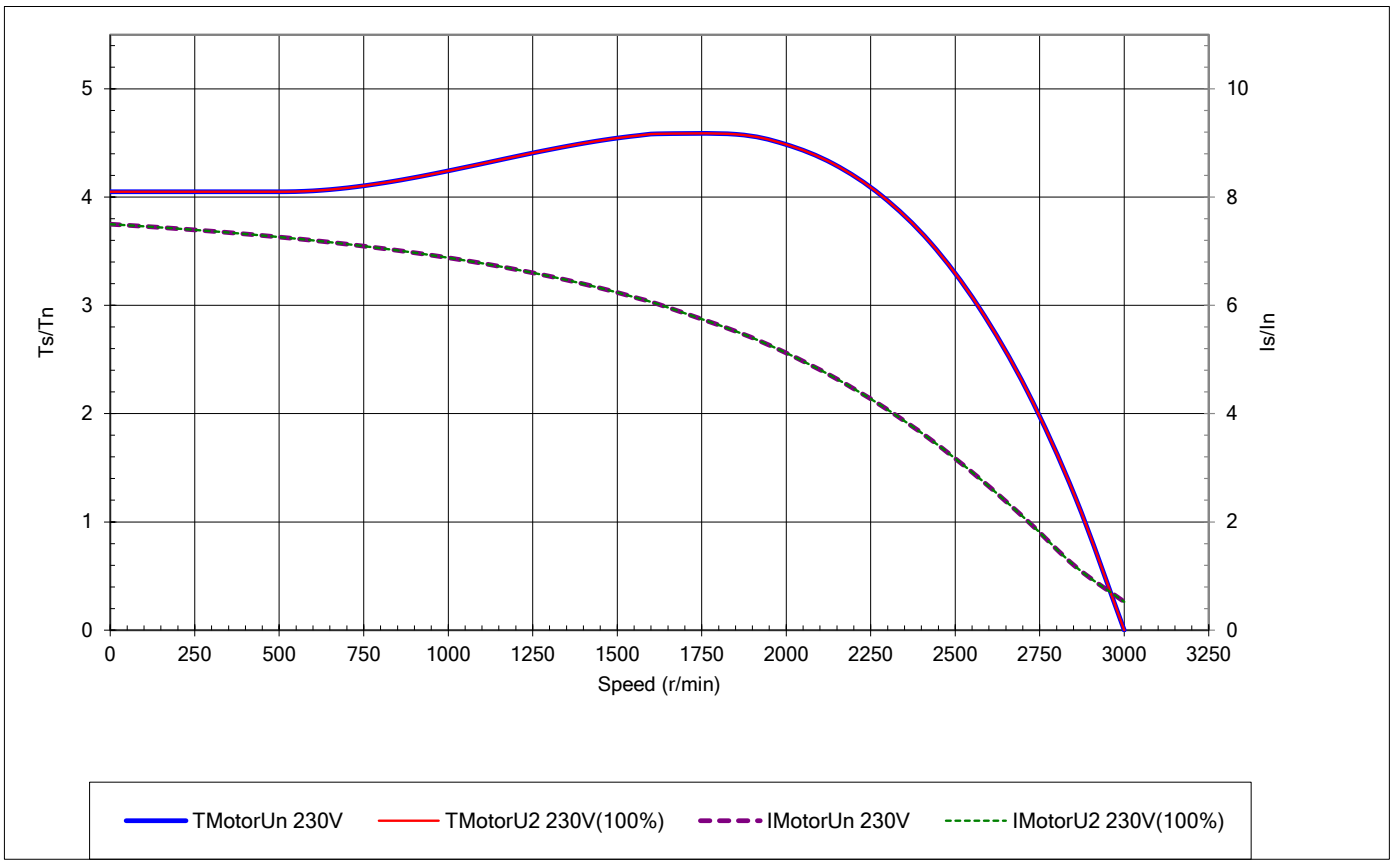
Load characteristics (IEC 60034-2-1:2014)
Data based on situation 05.07.2016

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 **2,00001**
Our ref.	Rev/Changed by **A**	Date of issue **23.09.2019**	Saving ident **untitled.xls**	Pages **3(3)**

Type of product	**TEFC, 3-phase, squirrel cage induction motor**				
Type/Frame	**M3AA 80B 2**		Calc. ref.	3GZF021008-222	
Product code	**3GAA 081 612-ASJ**		Frequency (Hz)	**50**	
Rated output P_N	**0,75**	kW	Rated current I_N	**2,9**	A
Type of duty	**S1(IEC) 100%**				

J_{motor} (kgm2)	**0,002**	Voltage (V) 100%	***230***	Voltage (V)	***230V(100%)***
J_{load} (kgm2)		T_{start}/T_N	***4,1***	T_{start}/T_N	***4,1***
Speed (r/min)	**2885**	Starting time (s)		Starting time (s)	
T_N (Nm)	**2,5**	Speed (r/min)	***0***	Speed (r/min)	***0***
T_{load} (Nm)		I_s/I_n	***7,5***	I_s/I_n	***7,5***
Nbr. of Consecutive Starts at UN		T_{max}/T_n	***4,6***	T_{max}/T_n	***4,6***



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 05.07.2016

All data subject to tolerances in accordance with IEC