

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	EMM08554-PP (3GBP 082 440-ACK)		Calc. ref. 3GZF021008-138
3	Type/Frame	M3BP 80MLD 4		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	0.55	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	1747	r/min	
11	Rated current I _N	1.03	A	
12	No-load current	0.49	A	
13	Starting current I _s /I _N	7.6		Meet IEC 60034-12, N,(H at 60 Hz)
14	Nominal torque T _N	3	Nm	
15	Locked rotor torque T _s /T _N	3.1		
16	Maximum torque T _{max} /T _N	4		
17	Minimum torque T _{min} /T _N	2.9		
18	Speed at minimum torque	270	r/min	
Load characteristics (IEC 60034-2-1:2014)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	1.03	83.9 / IE3
20		75	0.84	84
21		50	0.69	82.1
22		Start	7.8	0.66
23	Maximum starting time from hot	18	s	
24	Maximum starting time from cold	33	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)	48	dB(A)	at load
33	Moment of inertia J = ¼ GD2	0.0028	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	5	kg	
41	Total weight of motor	20	kg	
42	Dimension drawing no.			
43				
44				
45				

Ex-motors				
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Option Variant Codes / Definition				
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Remarks:

Data based on situation 11/7/2016
 All data subject to tolerances in accordance with IEC
 Guaranteed values on request



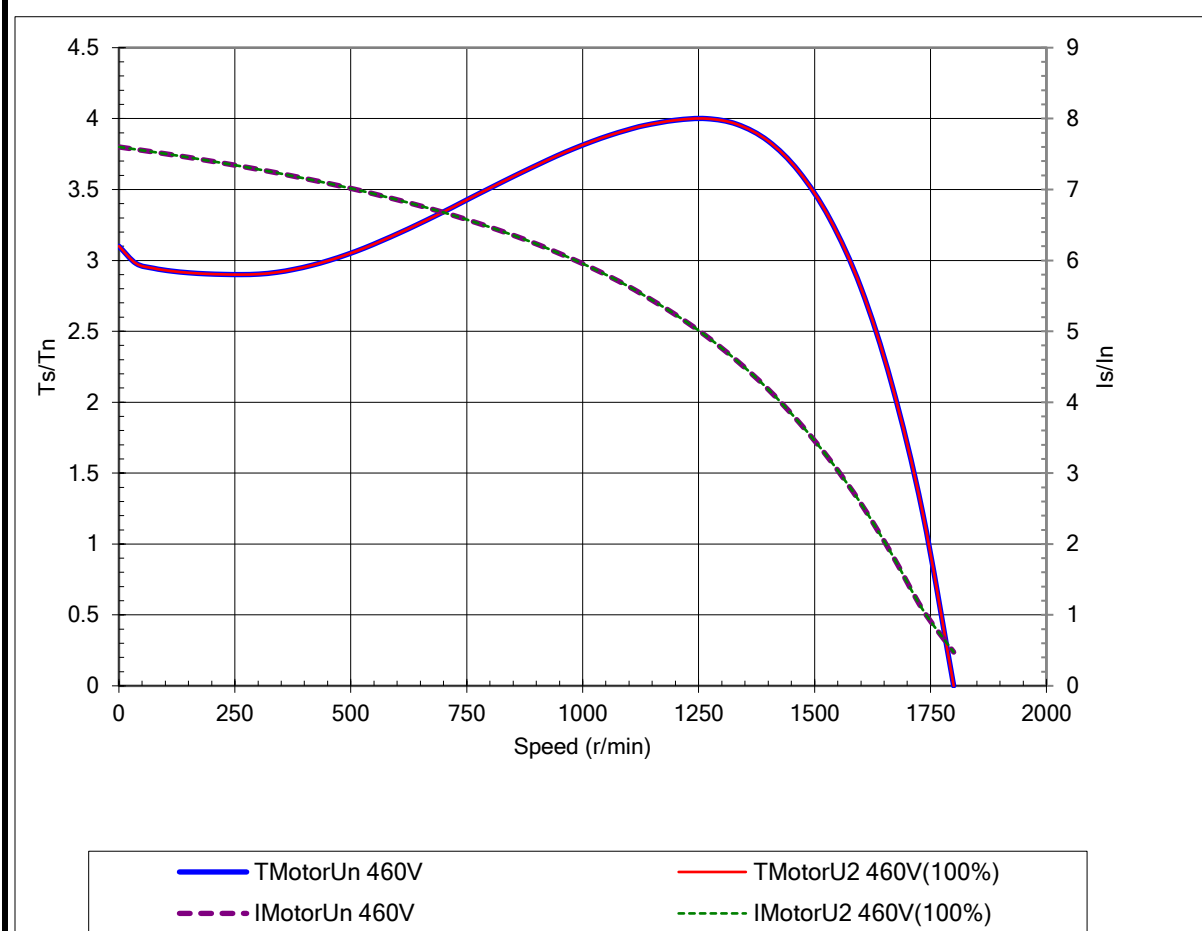
ABB Motors and Generators	Load Curves					
	Project	Location				
Department/Author	Customer name	Customer ref.	Item name 1.00001			
Our ref.	Rev/Changed by A	Date of issue 3/19/2018	Saving ident untitled.xls Pages 2(3)			
Product	TEFC, 3-phase, squirrel cage induction motor					
Type/Frame	M3BP 80MLD 4	Calc. ref.	3GZF021008-138			
Product code	EMM08554-PP					
Rated output P _N	0.55 kW					
Type of duty	S1(IEC) 100%					
Voltage (V)	460	Current I _N (A)	1.03			
Frequency (Hz)	60	Speed (r/min)	1747			
		Power factor at P _N	0.79			
		Efficiency (%) at P _N	83.9			
<table border="0"> <tr> <td style="text-align: center;">— Current</td> <td style="text-align: center;">- - - Efficiency</td> <td style="text-align: center;">... Cosinus</td> </tr> </table>				— Current	- - - Efficiency	... Cosinus
— Current	- - - Efficiency	... Cosinus				
<p>Load characteristics (IEC 60034-2-1:2014) Data based on situation 11/7/2016</p> <p style="text-align: center;">All data subject to tolerances in accordance with IEC</p>						

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 A 3/19/2018	Saving ident untitled.xls	Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 80MLD 4	Calc. ref.	3GZF021008-138
Product code	EMM08554-PP	Frequency (Hz)	60
Rated output P _N	0.55 kW	Rated current I _N	1.03 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm ²)	0.0028	Voltage (V) 100%	460	Voltage (V)	460V(100%)
J _{load} (kgm ²)		T _{start} /T _N	3.1	T _{start} /T _N	3.1
Speed (r/min)	1747	Starting time (s)		Starting time (s)	
T _N (Nm)	3	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	7.6	I _s /I _n	7.6
Nbr. of Consecutive Starts at UN		T _{max} /T _n	4	T _{max} /T _n	4



Load characteristics (IEC 60034-2-1:2014)
Data based on situation 11/7/2016

All data subject to tolerances in accordance with IEC