

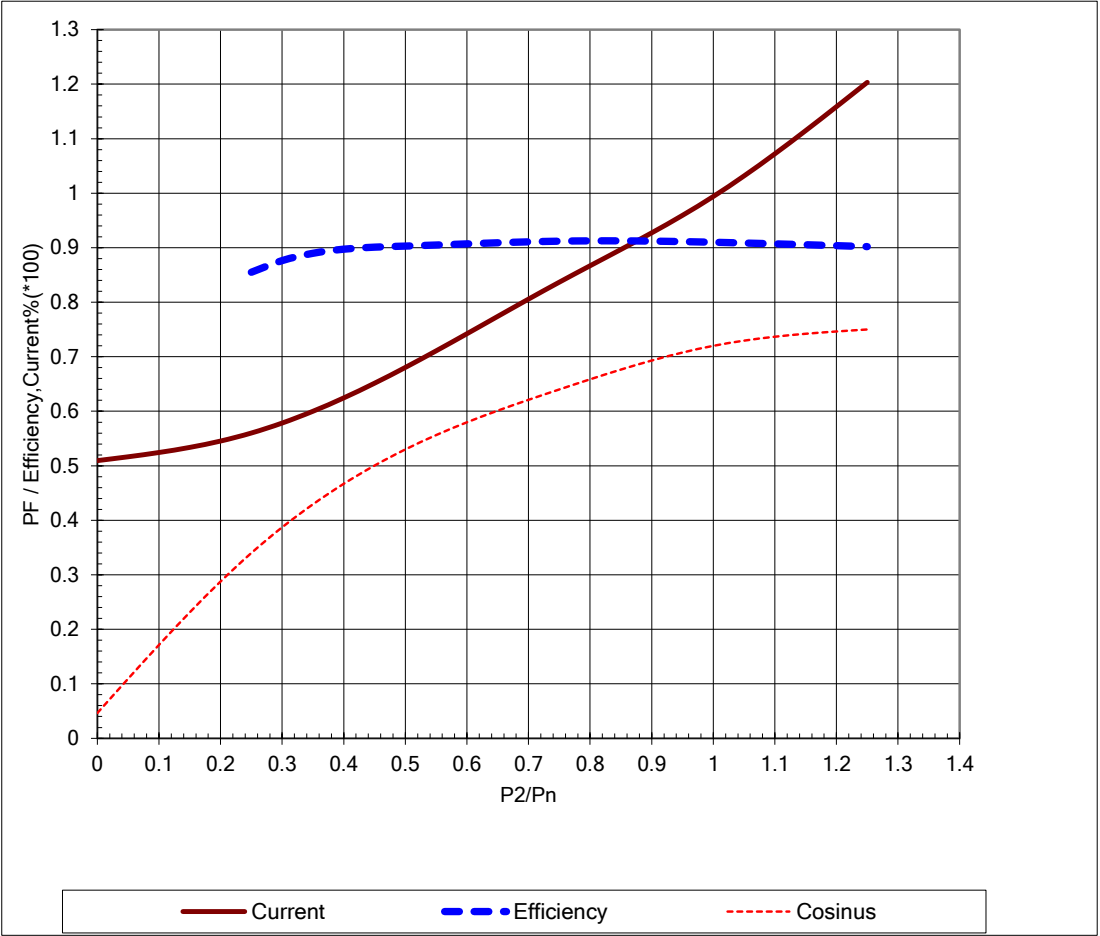


ABB Motors and Generators		Technical Data Sheet - DOL			
		Project	Location		
Department/Author		Customer name	Customer ref.		Item name 1.00001
Our ref.		Rev/Changed by A	Date of issue 3/19/2018	Saving ident untitled.xls	Pages 1(3)
No.	Definition	Data	Unit	Remarks	
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>			
2	Product code	<b>EMM13556-PP (3GBP 133 280-APK)</b>		Calc. ref.	3GZF021013-244
3	Type/Frame	<b>M3BP 132SMH 6</b>			
4	Mounting	<b>IM1001, B3(foot)</b>			
5	Rated output P <sub>N</sub>	<b>5.5</b>	kW		
6	Service factor	<b>1</b>			
7	Type of duty	<b>S1(IEC) 100%</b>			
8	Rated voltage U <sub>N</sub>	<b>460</b>	VD	± 5 % (IEC 60034-1)	
9	Rated frequency f <sub>N</sub>	<b>60</b>	Hz	± 2 % (IEC 60034-1)	
10	Rated speed n <sub>N</sub>	<b>1169</b>	r/min		
11	Rated current I <sub>N</sub>	<b>10.6</b>	A		
12	No-load current	<b>5.4</b>	A		
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>5.7</b>		Meet IEC 60034-12, N	
14	Nominal torque T <sub>N</sub>	<b>45</b>	Nm		
15	Locked rotor torque T <sub>s</sub> /T <sub>N</sub>	<b>2</b>			
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>3.1</b>			
17	Minimum torque T <sub>min</sub> /T <sub>N</sub>	<b>1.9</b>			
18	Speed at minimum torque	<b>180</b>	r/min		
Load characteristics (CSA 390-10)		Load %	Current A	Efficiency %	Power factor
19		100	<b>10.6</b>	<b>91.0 / IE3</b>	<b>0.72</b>
20		75	<b>8.9</b>	<b>91.2</b>	<b>0.64</b>
21		50	<b>7.2</b>	<b>90.3</b>	<b>0.53</b>
22		Start	<b>60</b>		<b>0.28</b>
23	Maximum starting time from hot	<b>10</b>	s		
24	Maximum starting time from cold	<b>18</b>	s		
25	Insulation class / Temperature class	<b>F / B</b>			
26	Ambient temperature	<b>40</b>	°C		
27	Altitude	<b>1000</b>	m.a.s.l.		
28	Enclosure	<b>IP55</b>			
29	Cooling system	<b>IC411 self ventilated</b>			
30	Bearing DE/NDE	<b>6208-2Z/C3 - 6208-2Z/C3</b>			
31	Type of Grease				
32	Sound pressure level (LP dB(A) 1m)	<b>60</b>	dB(A)	at load	
33	Moment of inertia J = ¼ GD2	<b>0.0654</b>	kg-m2		
34	Balancing				
35	Vibration class				
36	Position of terminal box	<b>Top</b>			
37	Terminal box entries; no, dimens.				
38	Number of power terminals				
39	Direction of rotation	<b>CW or CCW</b>			
40	Weight of rotor	<b>21</b>	kg		
41	Total weight of motor	<b>79</b>	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 7/26/2017					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					

<b>ABB Motors and Generators</b>	<b>Load Curves</b>		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name <b>1.00001</b>
Our ref.	Rev/Changed by A	Date of issue <b>3/19/2018</b>	Saving ident untitled.xls Pages <b>2(3)</b>
Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
Type/Frame	<b>M3BP 132SMH 6</b>	Calc. ref.	<b>3GZF021013-244</b>
Product code	<b>EMM13556-PP</b>		
Rated output P <sub>N</sub>	<b>5.5 kW</b>		
Type of duty	<b>S1(IEC) 100%</b>		
Voltage (V)	<b>460</b>	Current I <sub>N</sub> (A)	10.6
Frequency (Hz)	<b>60</b>	Speed (r/min)	<b>1169</b>
		Power factor at P <sub>N</sub>	<b>0.72</b>
		Efficiency (%) at P <sub>N</sub>	<b>91</b>
			
<p>Load characteristics (CSA 390-10) Data based on situation 7/26/2017</p> <p style="text-align: center;"><b>All data subject to tolerances in accordance with IEC</b></p>			

<b>ABB Motors and Generators</b>	<b>Starting Curves</b>		<b>ABB</b>
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name <b>1.00001</b>
Our ref.	Rev/Changed b Date of issue <b>A 3/19/2018</b>	Saving ident <b>untitled.xls</b>	Pages <b>3(3)</b>
Type of product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
Type/Frame	<b>M3BP 132SMH 6</b>	Calc. ref.	<b>3GZF021013-244</b>
Product code	<b>EMM13556-PP</b>	Frequency (Hz)	<b>60</b>
Rated output $P_N$	<b>5.5 kW</b>	Rated current $I_N$	<b>10.6 A</b>
Type of duty	<b>S1(IEC) 100%</b>		
$J_{motor}$ (kgm <sup>2</sup> )	<b>0.065</b>	Voltage (V) 100%	<b>460</b>
$J_{load}$ (kgm <sup>2</sup> )		$T_{start}/T_N$	<b>2</b>
Speed (r/min)	<b>1169</b>	Starting time (s)	
$T_N$ (Nm)	<b>45</b>	Speed (r/min)	
$T_{load}$ (Nm)		$I_s/I_n$	<b>5.7</b>
Nbr. of Consecutive Starts at UN		$T_{max}/T_n$	<b>3.1</b>
			<b>460V(100%)</b>
			<b>2</b>
			<b>5.7</b>
			<b>3.1</b>

Speed (r/min)

— TMotorUn 460V

- - - IMotorUn 460V

— TMotorU2 460V(100%)

- - - IMotorU2 460V(100%)

Load characteristics (CSA 390-10)  
Data based on situation 7/26/2017

**All data subject to tolerances in accordance with IEC**