



Project		Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident
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No.	Definition	Data	Unit	Remarks
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
2	Product code	<b>EMM09222-PP (3GBP091530-ACK+332+509)</b>		
3	Type/Frame	<b>M3BP 90 LC 2</b>		
4	Mounting	<b>IM1001, B3(foot)</b>		
5	Rated output P <sub>N</sub>	<b>2.2</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>	VY	± 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>3513</b>	r/min	
11	Rated current I <sub>N</sub>	<b>3.5</b>	A	
12	No-load current	<b>1.3</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>10.6</b>		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>6</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>3.6</b>		
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>4.8</b>		
17	Minimum torque T <sub>min</sub> /T <sub>N</sub>	<b>3</b>		
18	Speed at minimum torque	<b>612</b>	r/min	
19	Load characteristics (CSA 390-10)	Load %	Current A	Efficiency %
20		100	3.5	86.5 / IE3
21		75	2.7	86
22		50	2	83.7
23		Start	38	0.79
24	Maximum starting time from hot	<b>10</b>	s	
25	Maximum starting time from cold	<b>18</b>	s	
26	Insulation class / Temperature class	<b>F / B</b>		
27	Ambient temperature	<b>40</b>	°C	
28	Altitude	<b>1000</b>	m.a.s.l.	
29	Enclosure	<b>IP55</b>		
30	Cooling system	<b>IC411 self ventilated</b>		
31	Bearing DE/NDE	<b>6205-2Z/C3 - 6204-2Z/C3</b>		
32	Type of Grease	<b>Greased for life</b>		
33	Sound pressure level (LP dB(A) 1m)	<b>71</b>	dB(A)	at load
34	Moment of inertia J = ¼ GD2	<b>0.0044</b>	kg-m2	
35	Balancing	<b>Half Key</b>		
36	Vibration class	<b>Grade A</b>		
37	Position of terminal box	<b>Top</b>		
38	Terminal box entries; no, dimens.	<b>2xM32x1.5</b>		
39	Number of power terminals	<b>6</b>		
40	Direction of rotation	<b>CW or CCW</b>		
41	Total weight of motor	<b>35</b>	kg	
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**Variant Codes / Definition**

332 = Baldor catalog number  
509 = Fulfilling EISA Subtype I efficiency requirements, CC031A

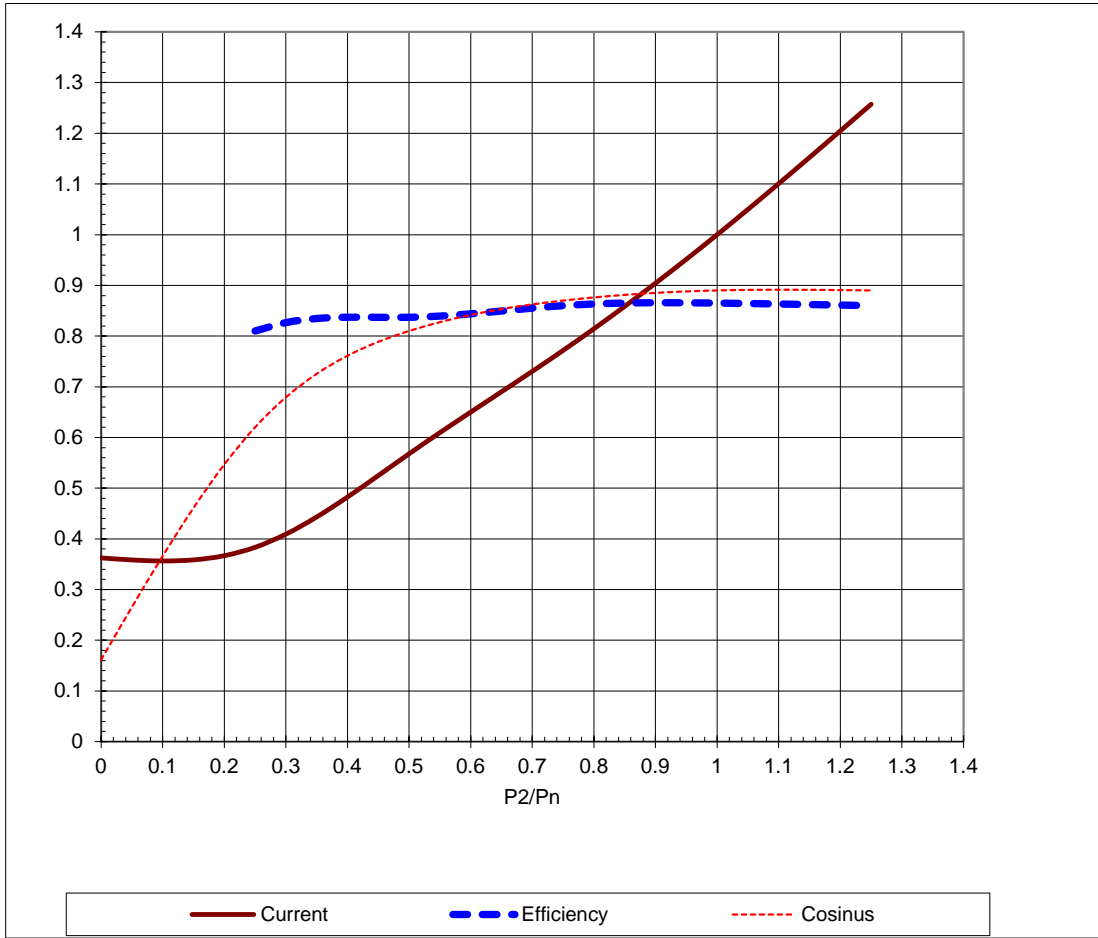
Remarks:

Data based on situation  
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	
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**Product** TEFC, 3-phase, squirrel cage induction motor  
**Type/Frame** M3BP 90 LC 2 **Calc. ref.** 3GZF021009-136  
**Product code** EMM09222-PP  
**Rated output P<sub>N</sub>** 2.2 kW  
**Type of duty** S1(IEC) 100%

**Voltage (V)** 460 **Current I<sub>N</sub> (A)** 3.5 **Power factor at P<sub>N</sub>** 0.89  
**Frequency (Hz)** 60 **Speed (r/min)** 3513 **Efficiency (%) at P<sub>N</sub>** 86.5

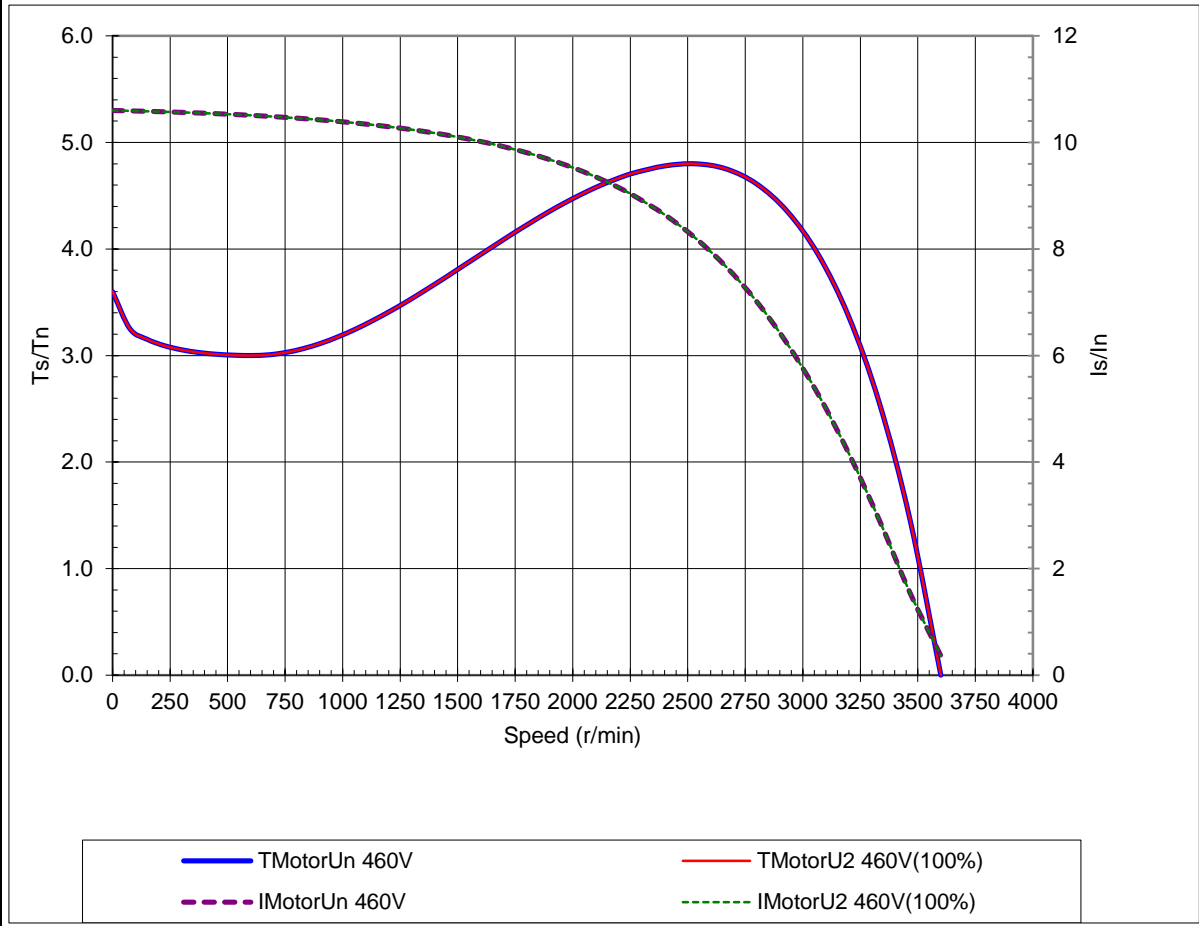


Load characteristics (CSA 390-10)  
 Data based on situation  
 All data subject to tolerances in accordance with IEC

<b>ABB Motors and Generators</b>	<b>Starting Curves</b>		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages <b>3(3)</b>

Type of product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
Type/Frame	<b>M3BP 90 LC 2</b>	Calc. ref.	3GZF021009-136
Product code	<b>EMM09222-PP</b>	Frequency (Hz)	<b>60</b>
Rated output P <sub>N</sub>	<b>2.2 kW</b>	Rated current I <sub>N</sub>	<b>3.5 A</b>
Type of duty	<b>S1(IEC) 100%</b>		

J <sub>motor</sub> (kgm <sup>2</sup> )	<b>0.0044</b>	Voltage (V) 100%	<b>460</b>	Voltage (V)	<b>460V(100%)</b>
J <sub>load</sub> (kgm <sup>2</sup> )		T <sub>start</sub> /T <sub>N</sub>	<b>3.6</b>	T <sub>start</sub> /T <sub>N</sub>	<b>3.6</b>
Speed (r/min)	<b>3513</b>	Starting time (s)		Run-up time (s)	
T <sub>N</sub> (Nm)	<b>6</b>	Speed (r/min)		Speed (r/min)	
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>10.6</b>	I <sub>s</sub> /I <sub>n</sub>	<b>10.6</b>
Nbr. of consecutive starts		T <sub>max</sub> /T <sub>n</sub>	<b>4.8</b>	T <sub>max</sub> /T <sub>n</sub>	<b>4.8</b>



Load characteristics (CSA 390-10)  
 Data based on situation  
 All data subject to tolerances in accordance with IEC