



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>MM13554-PP (3GBP132322-ADB+332+333)</b>		
3	Type/Frame	<b>M3BP 132 SMB 4</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>400</b>	VD	± 5 % (IEC 60034-1)
9	Rated frequency f <sub>N</sub>	<b>50</b>	Hz	± 2 % (IEC 60034-1)
10	Rated speed n <sub>N</sub>	<b>1460</b>	r/min	
11	Rated current I <sub>N</sub>	<b>11.1</b>	A	
12	No-load current	<b>4.8</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>5.9</b>		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>36</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>1.7</b>		
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>2.4</b>		
17	Minimum torque T <sub>min</sub> /T <sub>N</sub>	<b>1.3</b>		
18	Speed at minimum torque	<b>360</b>	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	<b>100</b>	<b>11.1</b>	<b>89.0 / IE2</b>
21		<b>75</b>	<b>8.5</b>	<b>89.8</b>
22		<b>50</b>	<b>6.8</b>	<b>88.9</b>
23		<b>Start</b>	<b>65</b>	<b>0.46</b>
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>6208-2Z/C3 - 6208-2Z/C3</b>		
32	Type of Grease	<b>Greased for life</b>		
33	Sound pressure level (LP dB(A) 1m)	<b>67</b>	dB(A)	at load
34	Moment of inertia J = ¼ GD2	<b>0.03282</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	Weight of rotor	<b>12</b>	kg	
42	Total weight of motor	<b>70</b>	kg	
43				

**Variant Codes / Definition**

332 = Baldor catalog number  
333 = Not for use in the USA

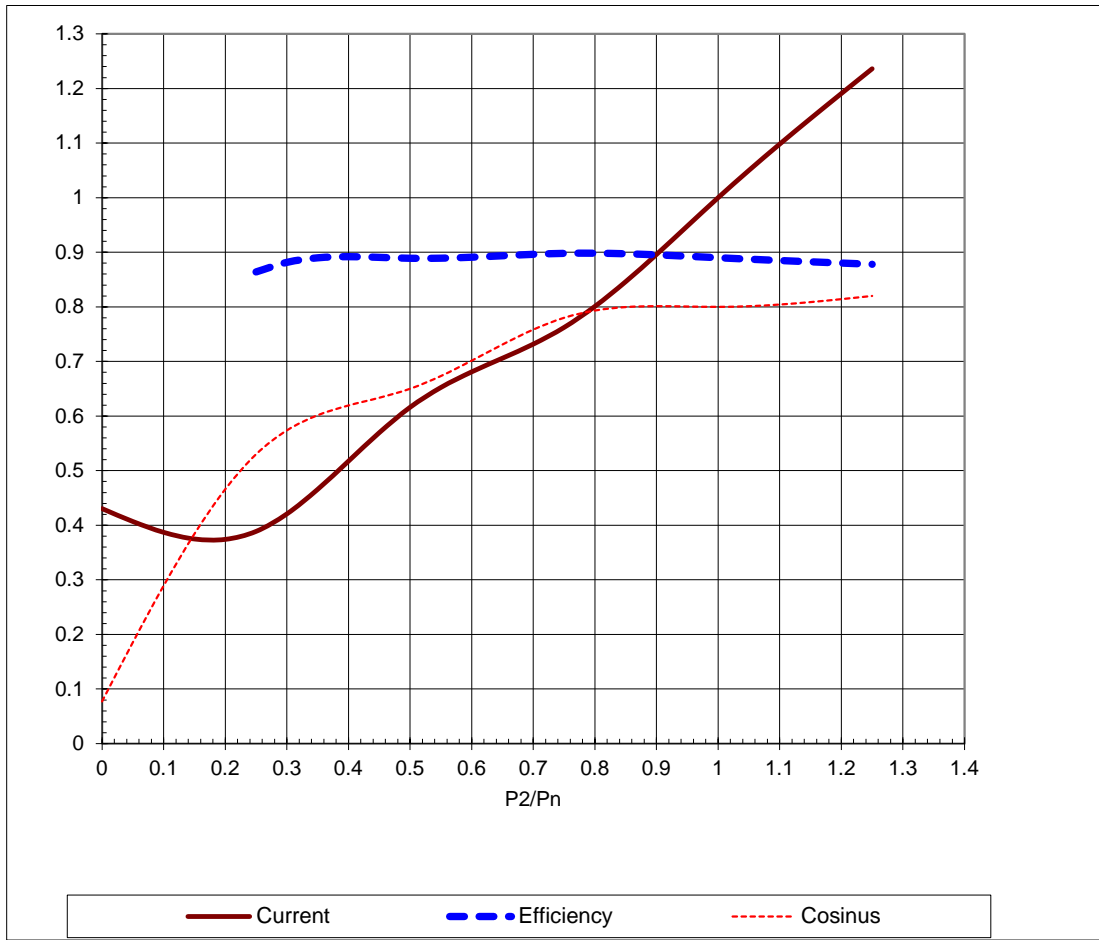
Remarks:

Data based on situation 3/14/2012  
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
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**Product** TEFC, 3-phase, squirrel cage induction motor  
**Type/Frame** M3BP 132 SMB 4  
**Product code** MM13554-PP  
**Rated output P<sub>N</sub>** 5.5 kW  
**Type of duty** S1(IEC) 100%

**Voltage (V)** 400      **Current I<sub>N</sub> (A)** 11.1      **Power factor at P<sub>N</sub>** 0.8  
**Frequency (Hz)** 50      **Speed (r/min)** 1460      **Efficiency (%) at P<sub>N</sub>** 89



Load characteristics (IEC 60034-2-1:2007)  
 Data based on situation 3/14/2012  
 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	
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 132 SMB 4</b>			
Product code	<b>MM13554-PP</b>	Frequency (Hz)	<b>50</b>	
Rated output P <sub>N</sub>	<b>5.5 kW</b>	Rated current I <sub>N</sub>	<b>11.1</b>	<b>A</b>
Type of duty	<b>S1(IEC) 100%</b>			
J <sub>motor</sub> (kgm <sup>2</sup> )	<b>0.0328</b>	Voltage (V) 100%	<b>400</b>	Voltage (V) <b>400V(100%)</b>
J <sub>load</sub> (kgm <sup>2</sup> )		T <sub>start</sub> /T <sub>N</sub>	<b>1.7</b>	T <sub>start</sub> /T <sub>N</sub> <b>1.7</b>
Speed (r/min)	<b>1460</b>	Starting time (s)		Run-up time (s)
T <sub>N</sub> (Nm)	<b>36</b>	Speed (r/min)		Speed (r/min)
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>5.9</b>	I <sub>s</sub> /I <sub>n</sub> <b>5.9</b>
Nbr. of consecutive starts		T <sub>max</sub> /T <sub>n</sub>	<b>2.4</b>	T <sub>max</sub> /T <sub>n</sub> <b>2.4</b>

Legend:

- TMotorUn 400V
- TMotorU2 400V(100%)
- - - IMotorUn 400V
- - - IMotorU2 400V(100%)

Load characteristics (IEC 60034-2-1:2007)  
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No.	Definition	Data	Unit	Remarks
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
2	Product code	<b>MM13554-PP (3GBP132322-ADB+332+333)</b>		
3	Type/Frame	<b>M3BP 132 SMB 4</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>690</b>	VY	± 5 % (IEC 60034-1)
9	Rated frequency f <sub>N</sub>	<b>50</b>	Hz	± 2 % (IEC 60034-1)
10	Rated speed n <sub>N</sub>	<b>1460</b>	r/min	
11	Rated current I <sub>N</sub>	<b>6.4</b>	A	
12	No-load current	<b>2.8</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>5.9</b>		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>36</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>1.7</b>		
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>2.4</b>		
17	Minimum torque T <sub>min</sub> /T <sub>N</sub>	<b>1.3</b>		
18	Speed at minimum torque	<b>360</b>	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	6.4	89.0 / IE2
21		75	4.9	89.8
22		50	3.9	88.9
23		Start	38	0.46
24	Maximum starting time from hot	10	s	
25	Maximum starting time from cold	18	s	
26	Insulation class / Temperature class	<b>F / B</b>		
27	Ambient temperature	40	°C	
28	Altitude	1000	m.a.s.l.	
29	Enclosure	<b>IP55</b>		
30	Cooling system	<b>IC411 self ventilated</b>		
31	Bearing DE/NDE	<b>6208-2Z/C3 - 6208-2Z/C3</b>		
32	Type of Grease	<b>Greased for life</b>		
33	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load
34	Moment of inertia J = ¼ GD2	0.03282	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	Weight of rotor	12	kg	
42	Total weight of motor	70	kg	
43				

**Variant Codes / Definition**

332 = Baldor catalog number  
333 = Not for use in the USA

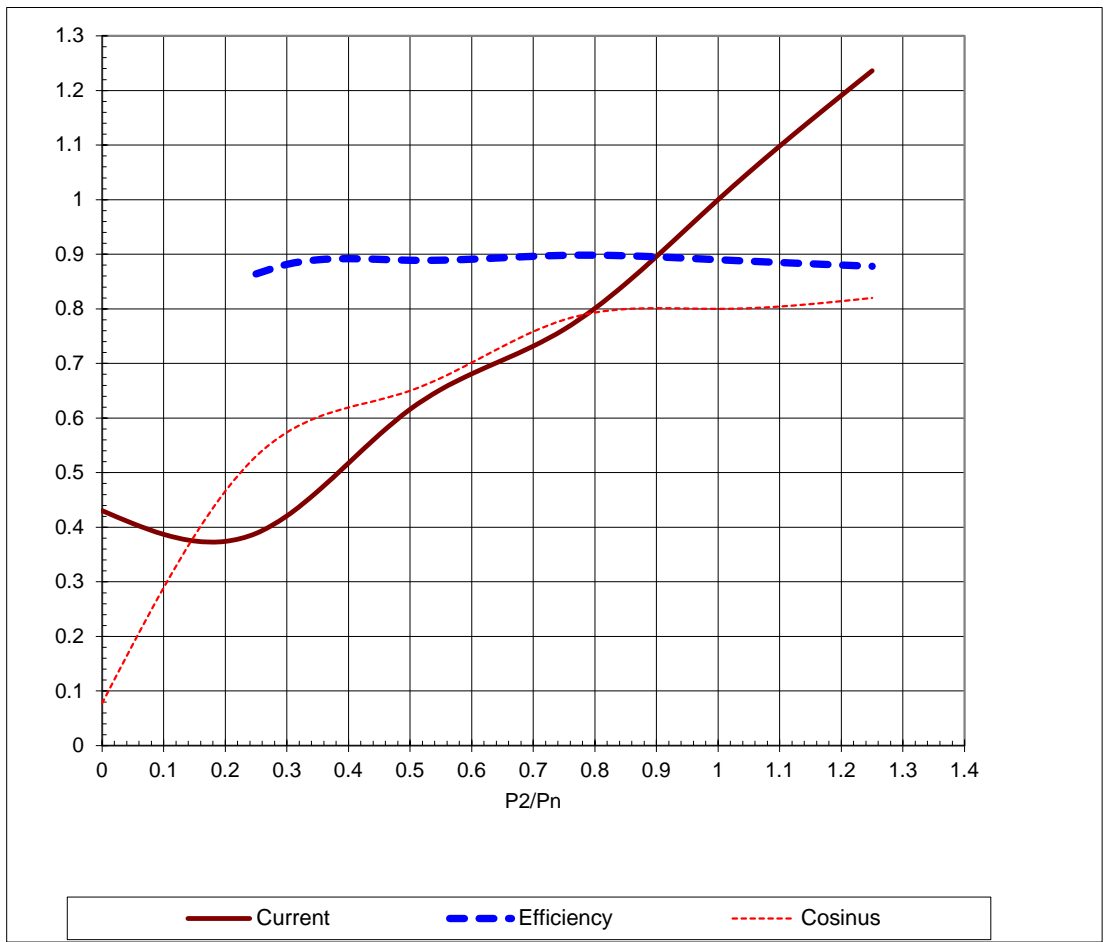
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<b>ABB Motors and Generators</b>	<b>Load Curves</b>		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
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			Pages <b>2(3)</b>

**Product** TEFC, 3-phase, squirrel cage induction motor  
**Type/Frame** M3BP 132 SMB 4  
**Product code** MM13554-PP  
**Rated output P<sub>N</sub>** 5.5 kW  
**Type of duty** S1(IEC) 100%

**Voltage (V)** 690                      **Current I<sub>N</sub> (A)** 6.4                      **Power factor at P<sub>N</sub>** 0.8  
**Frequency (Hz)** 50                      **Speed (r/min)** 1460                      **Efficiency (%) at P<sub>N</sub>** 89



Load characteristics (IEC 60034-2-1:2007)  
 Data based on situation 3/14/2012  
 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	
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 132 SMB 4</b>			
Product code	<b>MM13554-PP</b>	Frequency (Hz)	<b>50</b>	
Rated output P <sub>N</sub>	<b>5.5 kW</b>	Rated current I <sub>N</sub>	<b>6.4</b>	A
Type of duty	<b>S1(IEC) 100%</b>			
J <sub>motor</sub> (kgm <sup>2</sup> )	<b>0.0328</b>	Voltage (V) 100%	<b>690</b>	Voltage (V) <b>690V(100%)</b>
J <sub>load</sub> (kgm <sup>2</sup> )		T <sub>start</sub> /T <sub>N</sub>	<b>1.7</b>	T <sub>start</sub> /T <sub>N</sub> <b>1.7</b>
Speed (r/min)	<b>1460</b>	Starting time (s)		Run-up time (s)
T <sub>N</sub> (Nm)	<b>36</b>	Speed (r/min)		Speed (r/min)
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>5.9</b>	I <sub>s</sub> /I <sub>n</sub> <b>5.9</b>
Nbr. of consecutive starts		T <sub>max</sub> /T <sub>n</sub>	<b>2.4</b>	T <sub>max</sub> /T <sub>n</sub> <b>2.4</b>

The graph plots torque (Ts/Tn) on the left y-axis (0.0 to 3.5) and current (Is/In) on the right y-axis (0 to 7) against speed (r/min) on the x-axis (0 to 1750). Four curves are shown: TMotorUn 690V (solid blue), TMotorU2 690V(100%) (solid red), IMotorUn 690V (dashed purple), and IMotorU2 690V(100%) (dashed green). The torque curves show a peak around 1250 r/min, while the current curves show a peak around 1000 r/min.

Load characteristics (IEC 60034-2-1:2007)  
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No.	Definition	Data	Unit	Remarks
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
2	Product code	<b>MM13554-PP (3GBP132322-ADB+332+333)</b>		
3	Type/Frame	<b>M3BP 132 SMB 4</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>1765</b>	r/min	
11	Rated current I <sub>N</sub>	<b>9.7</b>	A	
12	No-load current	<b>4.5</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>6.7</b>		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>29.8</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>1.8</b>		
16	Maximum torque T <sub>max</sub> /T <sub>N</sub>	<b>2.8</b>		
17	Minimum torque T <sub>min</sub> /T <sub>N</sub>	<b>1.4</b>		
18	Speed at minimum torque	<b>432</b>	r/min	
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %
20	PLL determined from residual loss	100	9.7	90.0 / IE2
21		75	7.8	90
22		50	6.2	88.5
23		Start	65	0.46
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>6208-2Z/C3 - 6208-2Z/C3</b>		
32	Type of Grease	<b>Greased for life</b>		
33	Sound pressure level (LP dB(A) 1m)	<b>74</b>	dB(A)	at load
34	Moment of inertia J = ¼ GD2	<b>0.03282</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	Weight of rotor	<b>12</b>	kg	
42	Total weight of motor	<b>70</b>	kg	
43				

**Variant Codes / Definition**

332 = Baldor catalog number  
**333 = Not for use in the USA**

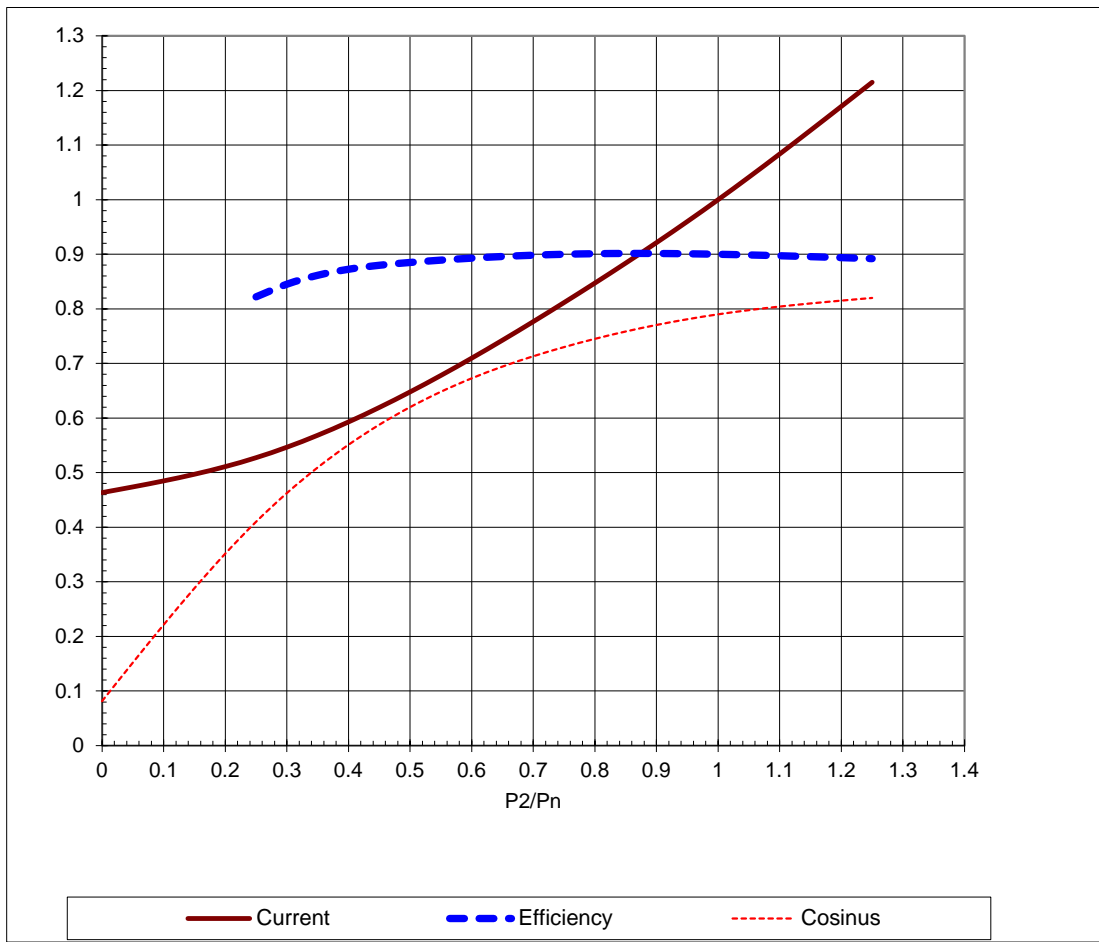
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<b>ABB Motors and Generators</b>	<b>Load Curves</b>		
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**Product** TEFC, 3-phase, squirrel cage induction motor  
**Type/Frame** M3BP 132 SMB 4  
**Product code** MM13554-PP  
**Rated output P<sub>N</sub>** 5.5 kW  
**Type of duty** S1(IEC) 100%

**Voltage (V)** 460      **Current I<sub>N</sub> (A)** 9.7      **Power factor at P<sub>N</sub>** 0.79  
**Frequency (Hz)** 60      **Speed (r/min)** 1765      **Efficiency (%) at P<sub>N</sub>** 90

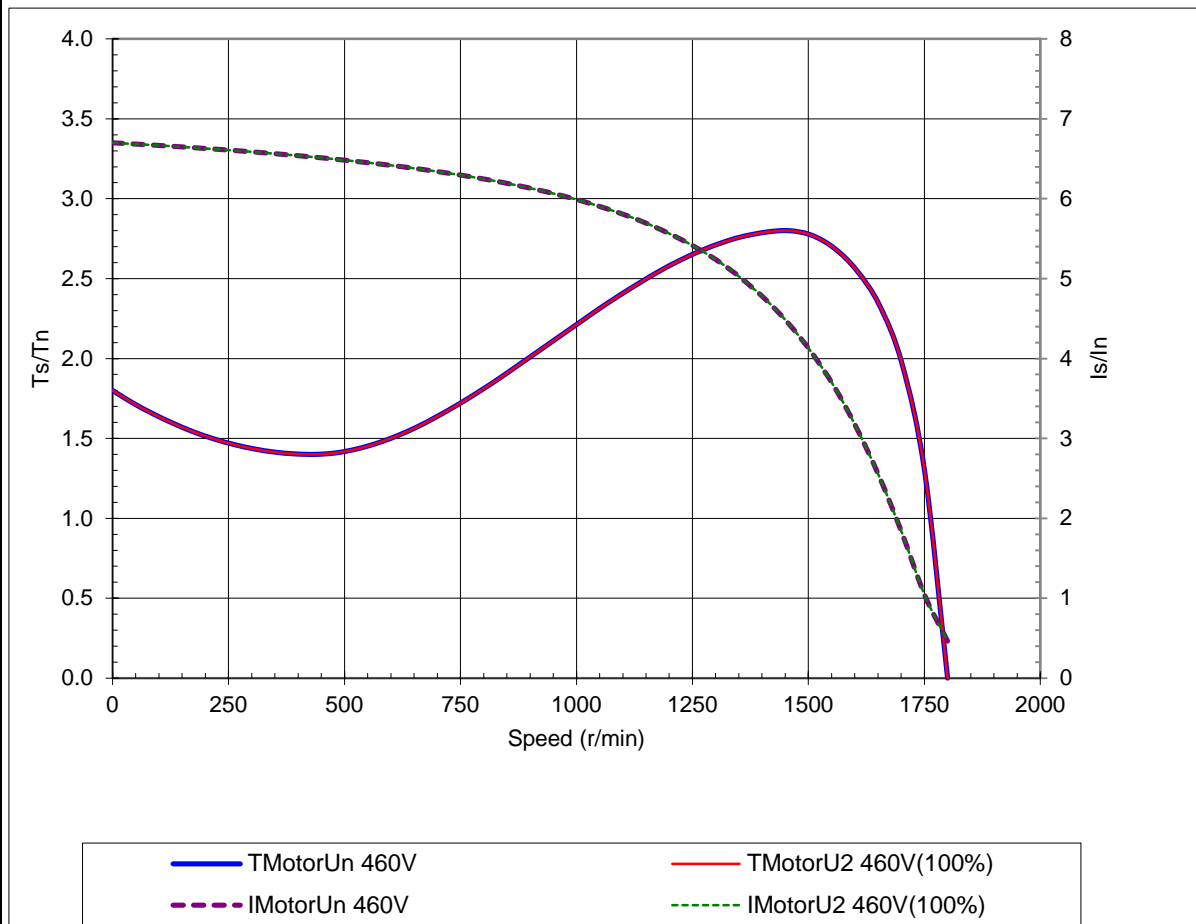


Load characteristics (IEC 60034-2-1:2007)  
 Data based on situation 3/14/2012  
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<b>ABB Motors and Generators</b>	<b>Starting Curves</b>		
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Type of product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
Type/Frame	<b>M3BP 132 SMB 4</b>		
Product code	<b>MM13554-PP</b>	Frequency (Hz)	<b>60</b>
Rated output P <sub>N</sub>	<b>5.5 kW</b>	Rated current I <sub>N</sub>	<b>9.7 A</b>
Type of duty	<b>S1(IEC) 100%</b>		

J <sub>motor</sub> (kgm <sup>2</sup> )	<b>0.0328</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>1.8</b>	T <sub>start</sub> /T <sub>N</sub>	<b>1.8</b>
Speed (r/min)	<b>1765</b>	Starting time (s)		Run-up time (s)	
T <sub>N</sub> (Nm)	<b>29.8</b>	Speed (r/min)		Speed (r/min)	
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>6.7</b>	I <sub>s</sub> /I <sub>n</sub>	<b>6.7</b>
Nbr. of consecutive starts		T <sub>max</sub> /T <sub>n</sub>	<b>2.8</b>	T <sub>max</sub> /T <sub>n</sub>	<b>2.8</b>



Load characteristics (IEC 60034-2-1:2007)  
 Data based on situation 3/14/2012  
 All data subject to tolerances in accordance with IEC