



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>EMM28754-PP (3GBP282220-ADK+332+509+531)</b>		
3	Type/Frame	<b>M3BP 280 SMB 4</b>		
4	Mounting	<b>IM1001, B3(foot)</b>		
5	Rated output P <sub>N</sub>	<b>75</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>1486</b>	r/min	
11	Rated current I <sub>N</sub>	<b>133</b>	A	
12	No-load current	<b>50</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>7.4</b>		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>482</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>2.5</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>2.3</b>		
18	Speed at minimum torque	<b>1200</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>133</b>	<b>95.7 / IE3</b>
21		<b>75</b>	<b>104</b>	<b>95.8</b>
22		<b>50</b>	<b>77.8</b>	<b>95.3</b>
23		<b>Start</b>	<b>984</b>	<b>0.45</b>
24	Maximum starting time from hot	<b>18</b>	s	
25	Maximum starting time from cold	<b>32</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>6316/C3 - 6316/C3</b>		
32	Type of Grease	<b>Lithium based</b>		
33	Sound pressure level (LP dB(A) 1m)	<b>72</b>	dB(A)	at load
34	Moment of inertia J = ¼ GD2	<b>1.5</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>2xM63x1.5 + 2xM16x1.5</b>		
39	Number of power terminals	<b>6</b>		
40	Direction of rotation	<b>CW or CCW</b>		
41	Total weight of motor	<b>665</b>	kg	
42				

**Variant Codes / Definition**

332 = Baldor catalog number  
 509 = Fulfilling EISA Subtype I efficiency requirements, CC031A  
 531 = Sea freight packaging

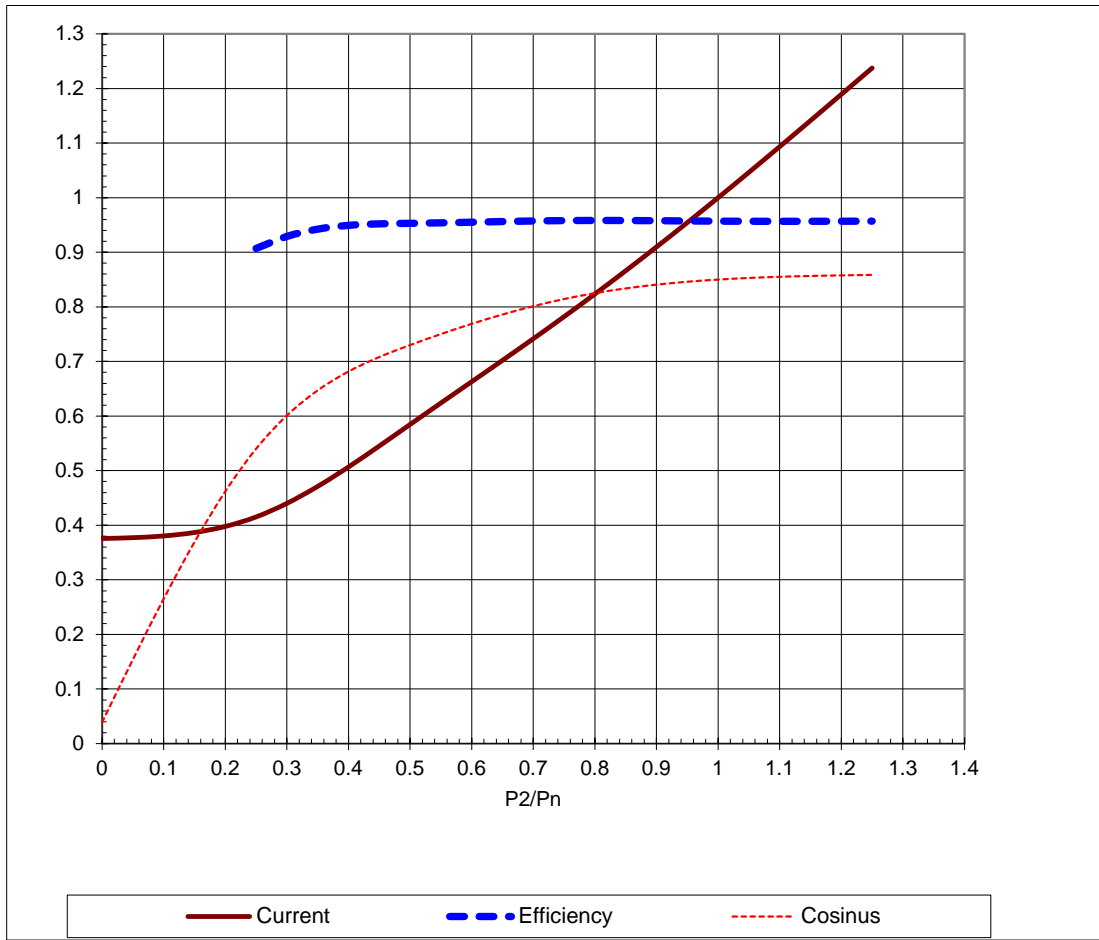
Remarks:

Data based on situation 11/4/2012  
 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
Our ref.	Rev/Changed by	Date of issue	Saving ident
			Pages <b>2(3)</b>

**Product** TEFC, 3-phase, squirrel cage induction motor  
**Type/Frame** M3BP 280 SMB 4  
**Product code** EMM28754-PP  
**Rated output P<sub>N</sub>** 75 kW  
**Type of duty** S1(IEC) 100%

**Voltage (V)** 400      **Current I<sub>N</sub> (A)** 133      **Power factor at P<sub>N</sub>** 0.85  
**Frequency (Hz)** 50      **Speed (r/min)** 1486      **Efficiency (%) at P<sub>N</sub>** 95.7

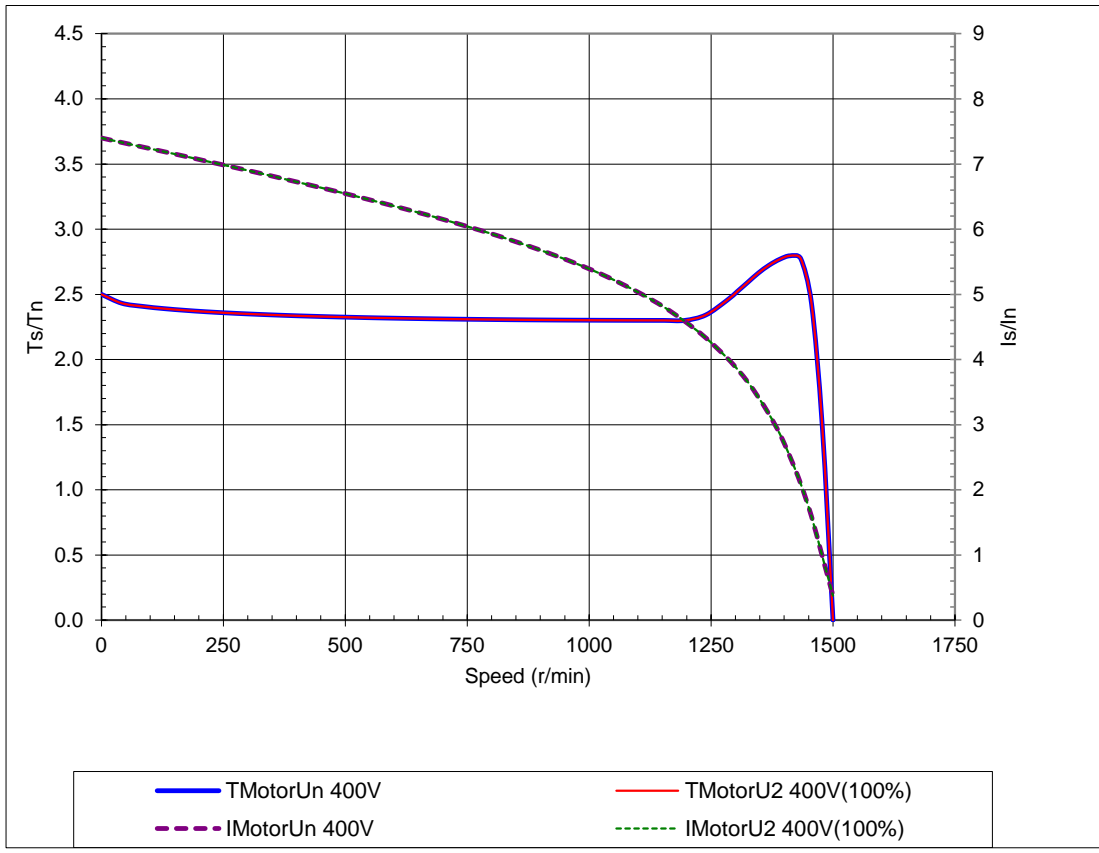


Load characteristics (IEC 60034-2-1:2007)  
 Data based on situation 11/4/2012  
 All data subject to tolerances in accordance with IEC

<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 280 SMB 4</b>		
Product code	<b>EMM28754-PP</b>	Frequency (Hz)	<b>50</b>
Rated output P <sub>N</sub>	<b>75 kW</b>	Rated current I <sub>N</sub>	<b>133 A</b>
Type of duty	<b>S1(IEC) 100%</b>		

J <sub>motor</sub> (kgm <sup>2</sup> )	<b>1.5</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>2.5</b>	T <sub>start</sub> /T <sub>N</sub>	<b>2.5</b>
Speed (r/min)	<b>1486</b>	Starting time (s)		Run-up time (s)	
T <sub>N</sub> (Nm)	<b>482</b>	Speed (r/min)		Speed (r/min)	
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>7.4</b>	I <sub>s</sub> /I <sub>n</sub>	<b>7.4</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)  
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No.	Definition	Data	Unit	Remarks
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
2	Product code	<b>EMM28754-PP (3GBP282220-ADK+332+509+531)</b>		
3	Type/Frame	<b>M3BP 280 SMB 4</b>		
4	Mounting	<b>IM1001, B3(foot)</b>		
5	Rated output P <sub>N</sub>	<b>75</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>1486</b>	r/min	
11	Rated current I <sub>N</sub>	<b>77.1</b>	A	
12	No-load current	<b>29</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>7.4</b>		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>482</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>2.5</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>2.3</b>		
18	Speed at minimum torque	<b>1200</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>77.1</b>	<b>95.7 / IE3</b>
21		<b>75</b>	<b>60.3</b>	<b>95.8</b>
22		<b>50</b>	<b>45.1</b>	<b>95.3</b>
23		<b>Start</b>	<b>570</b>	<b>0.45</b>
24	Maximum starting time from hot	<b>18</b>	s	
25	Maximum starting time from cold	<b>32</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>6316/C3 - 6316/C3</b>		
32	Type of Grease	<b>Lithium based</b>		
33	Sound pressure level (LP dB(A) 1m)	<b>72</b>	dB(A)	at load
34	Moment of inertia J = ¼ GD2	<b>1.5</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>2xM63x1.5 + 2xM16x1.5</b>		
39	Number of power terminals	<b>6</b>		
40	Direction of rotation	<b>CW or CCW</b>		
41	Total weight of motor	<b>665</b>	kg	
42				


**Variant Codes / Definition**

332 = Baldor catalog number  
 509 = Fulfilling EISA Subtype I efficiency requirements, CC031A  
 531 = Sea freight packaging

Remarks:

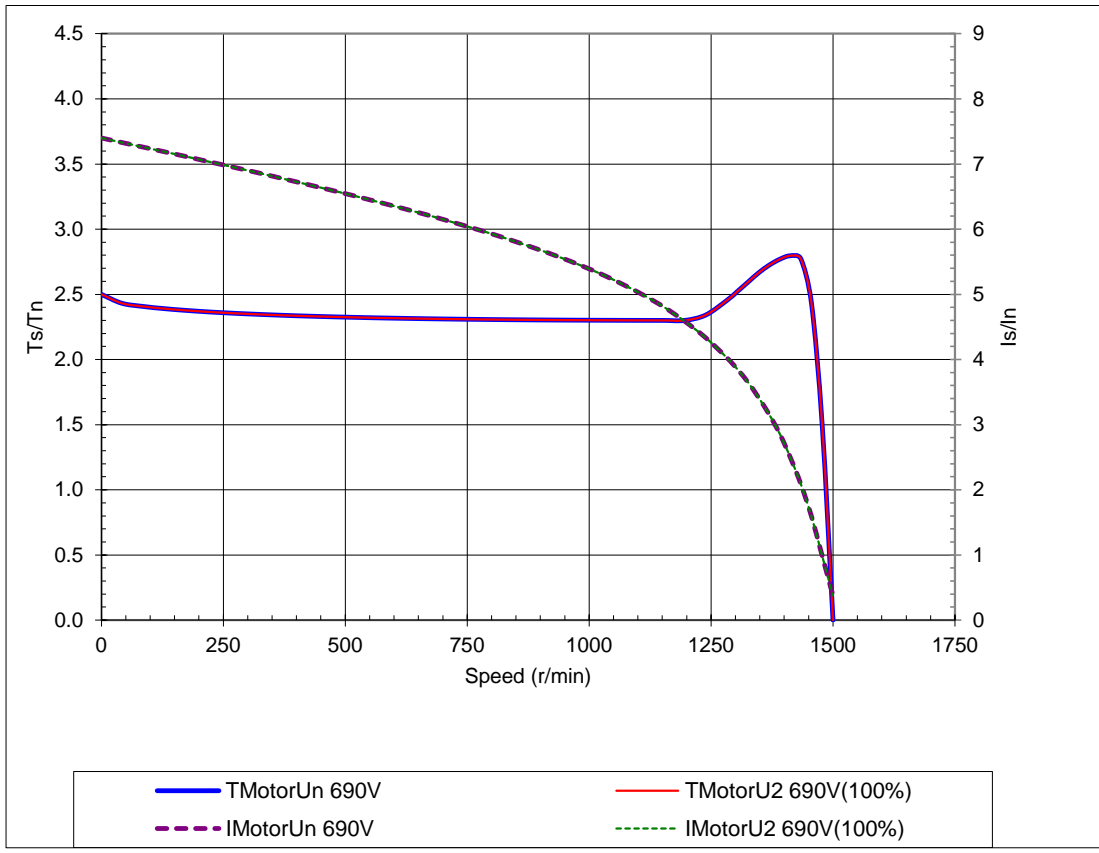
Data based on situation 11/4/2012  
 All data subject to tolerances in accordance with IEC  
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<b>ABB Motors and Generators</b>	<b>Starting Curves</b>		
	Project	Location	
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Type of product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
Type/Frame	<b>M3BP 280 SMB 4</b>		
Product code	<b>EMM28754-PP</b>	Frequency (Hz)	<b>50</b>
Rated output P <sub>N</sub>	<b>75 kW</b>	Rated current I <sub>N</sub>	<b>77.1 A</b>
Type of duty	<b>S1(IEC) 100%</b>		

J <sub>motor</sub> (kgm <sup>2</sup> )	<b>1.5</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>2.5</b>	T <sub>start</sub> /T <sub>N</sub>	<b>2.5</b>
Speed (r/min)	<b>1486</b>	Starting time (s)		Run-up time (s)	
T <sub>N</sub> (Nm)	<b>482</b>	Speed (r/min)		Speed (r/min)	
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>7.4</b>	I <sub>s</sub> /I <sub>n</sub>	<b>7.4</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 11/4/2012  
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No.	Definition	Data	Unit	Remarks
1	Product	<b>TEFC, 3-phase, squirrel cage induction motor</b>		
2	Product code	<b>EMM28754-PP (3GBP282220-ADK+332+509+531)</b>		
3	Type/Frame	<b>M3BP 280 SMB 4</b>		
4	Mounting	<b>IM1001, B3(foot)</b>		
5	Rated output P <sub>N</sub>	<b>75</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>1788</b>	r/min	
11	Rated current I <sub>N</sub>	<b>117</b>	A	
12	No-load current	<b>46</b>	A	
13	Starting current I <sub>s</sub> /I <sub>N</sub>	<b>8.4</b>		Not within IEC 60034-12 design N,H
14	Nominal torque T <sub>N</sub>	<b>401</b>	Nm	
15	Locked rotor torque T <sub>S</sub> /T <sub>N</sub>	<b>2.7</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>2.5</b>		
18	Speed at minimum torque	<b>1440</b>	r/min	
19	Load characteristics (IEEE 112 B: 2004)	Load %	Current A	Efficiency %
20	NEMA nominal efficiency (*)	<b>100</b>	<b>117</b>	<b>95.5 / IE3 / 94.5</b>
21		<b>75</b>	<b>93.8</b>	<b>95.2</b>
22		<b>50</b>	<b>71.3</b>	<b>94.3</b>
23		<b>Start</b>	<b>985</b>	<b>0.45</b>
24	Maximum starting time from hot	<b>18</b>	s	
25	Maximum starting time from cold	<b>36</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>6316/C3 - 6316/C3</b>		
32	Type of Grease	<b>Lithium based</b>		
33	Sound pressure level (LP dB(A) 1m)	<b>76</b>	dB(A)	at load
34	Moment of inertia J = ¼ GD2	<b>1.5</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>2xM63x1.5 + 2xM16x1.5</b>		
39	Number of power terminals	<b>6</b>		
40	Direction of rotation	<b>CW or CCW</b>		
41	Total weight of motor	<b>665</b>	kg	
42				

**Variant Codes / Definition**

332 = Baldor catalog number  
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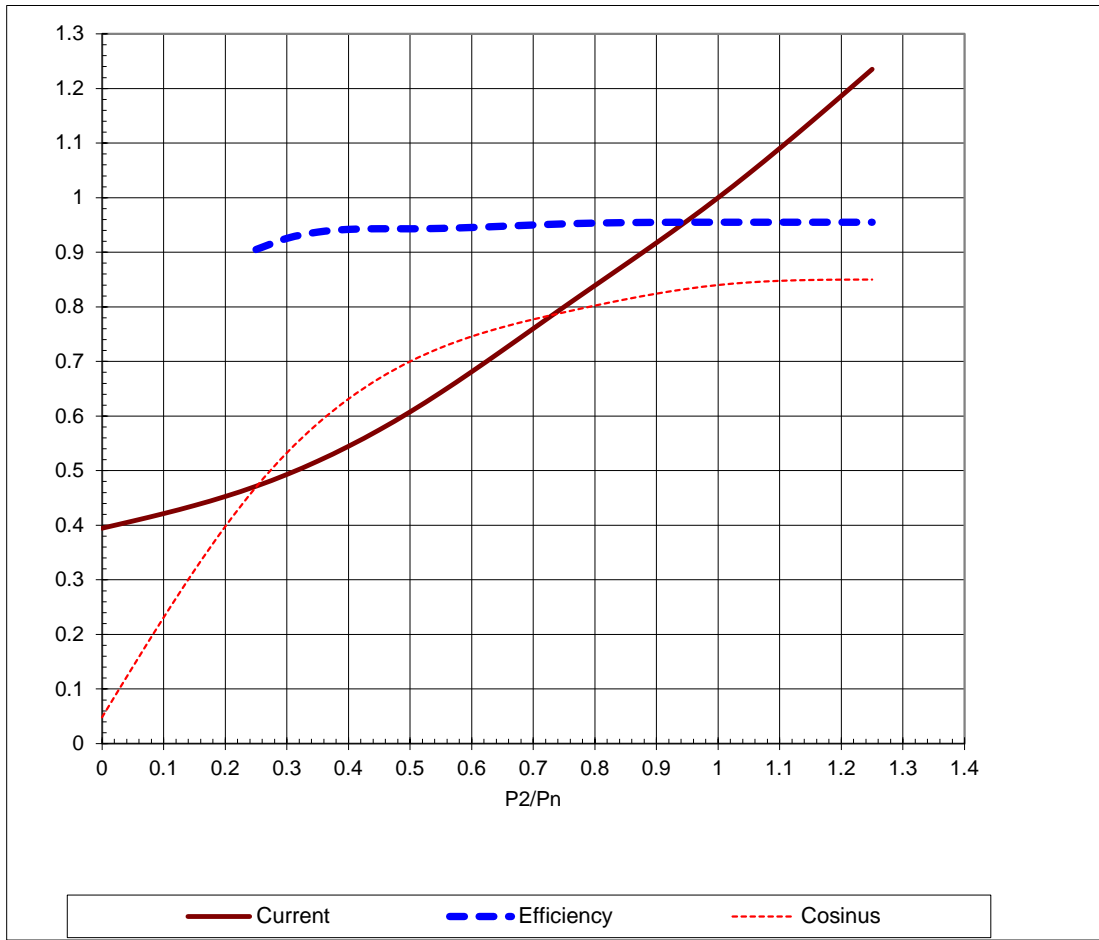
Remarks:

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<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 280 SMB 4  
**Product code** EMM28754-PP  
**Rated output P<sub>N</sub>** 75 kW  
**Type of duty** S1(IEC) 100%

**Voltage (V)** 460      **Current I<sub>N</sub> (A)** 117      **Power factor at P<sub>N</sub>** 0.84  
**Frequency (Hz)** 60      **Speed (r/min)** 1788      **Efficiency (%) at P<sub>N</sub>** 95.5



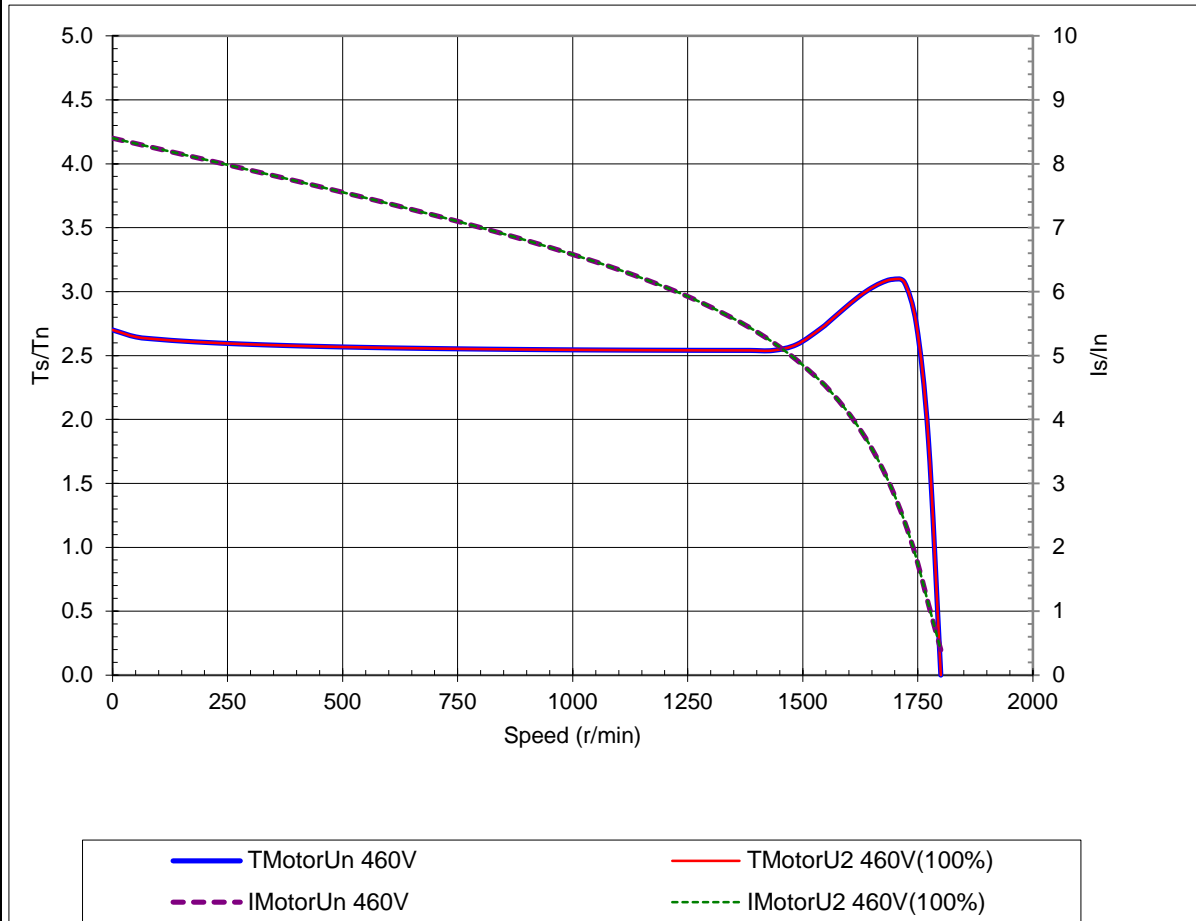
Load characteristics (IEEE 112 B: 2004)  
 Data based on situation 5/15/2012  
 All data subject to tolerances in accordance with IEC



<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 280 SMB 4</b>		
Product code	<b>EMM28754-PP</b>	Frequency (Hz)	<b>60</b>
Rated output P <sub>N</sub>	<b>75 kW</b>	Rated current I <sub>N</sub>	<b>117 A</b>
Type of duty	<b>S1(IEC) 100%</b>		

J <sub>motor</sub> (kgm <sup>2</sup> )	<b>1.5</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>2.7</b>	T <sub>start</sub> /T <sub>N</sub>	<b>2.7</b>
Speed (r/min)	<b>1788</b>	Starting time (s)		Run-up time (s)	
T <sub>N</sub> (Nm)	<b>401</b>	Speed (r/min)		Speed (r/min)	
T <sub>load</sub> (Nm)		I <sub>s</sub> /I <sub>n</sub>	<b>8.4</b>	I <sub>s</sub> /I <sub>n</sub>	<b>8.4</b>
Nbr. of consecutive starts		T <sub>max</sub> /T <sub>n</sub>	<b>3.1</b>	T <sub>max</sub> /T <sub>n</sub>	<b>3.1</b>



Load characteristics (IEEE 112 B: 2004)  
 Data based on situation 5/15/2012  
 All data subject to tolerances in accordance with IEC