



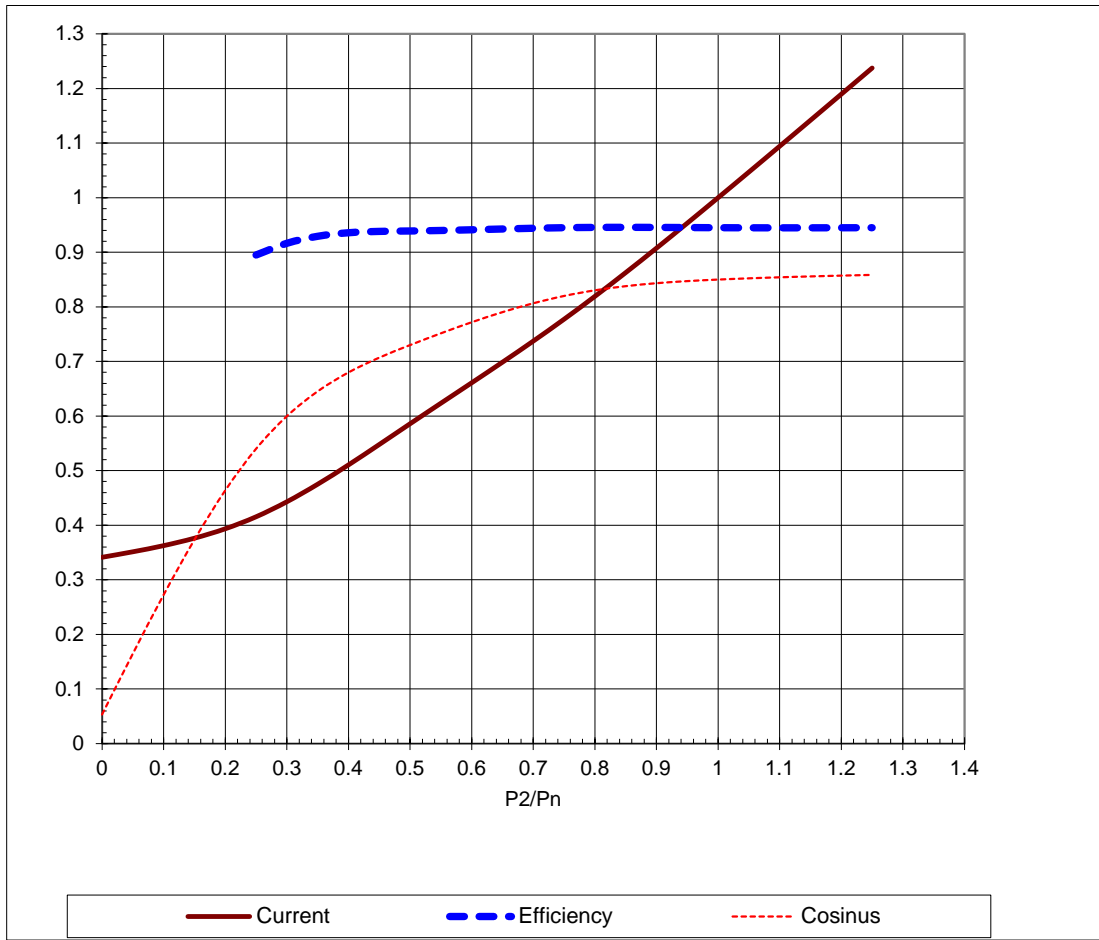
ABB Motors and Generators		Technical Data Sheet - DOL				
Department/Author		Project	Location		Item name	
Our ref.		Rev/Changed by	Date of issue	Saving ident	Pages 1(3)	
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM28754-EX1 (3GGP282210-ADG+332+531)				
3	Type/Frame	M3GP 280 SMA 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	75	kW			
6	Service factor	1				
7	Type of duty	S1(IEC) 100%				
8	Rated voltage U _N	400	VD	± 5 % (IEC 60034-1)		
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)		
10	Rated speed n _N	1484	r/min			
11	Rated current I _N	134	A			
12	No-load current	46	A			
13	Starting current I _s /I _N	6.9		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T _N	483	Nm			
15	Locked rotor torque T _s /T _N	2.5				
16	Maximum torque T _{max} /T _N	2.8				
17	Minimum torque T _{min} /T _N	2.2				
18	Speed at minimum torque	1200	r/min			
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor	
20	PLL determined from residual loss	100	134	94.5 / IE2	0.85	
21		75	104	94.5	0.82	
22		50	78.9	93.9	0.73	
23		Start	929		0.42	
24	Maximum starting time from hot	18	s			
25	Maximum starting time from cold	32	s			
26	Insulation class / Temperature class	F / B				
27	Ambient temperature	40	°C			
28	Altitude	1000	m.a.s.l.			
29	Enclosure	IP55				
30	Cooling system	IC411 self ventilated				
31	Bearing DE/NDE	6316/C3 - 6316/C3				
32	Type of Grease	Lithium based				
33	Sound pressure level (LP dB(A) 1m)	68	dB(A)	at load		
34	Moment of inertia J = ¼ GD2	1.25	kg-m2			
35	Balancing	Half Key				
36	Vibration class	Grade A				
37	Position of terminal box	Top				
38	Terminal box entries; no, dimens.	2xM63x1.5 + 2xM20x1.5				
39	Number of power terminals	6				
40	Direction of rotation	CW or CCW				
41	Total weight of motor	625	kg			
42	Ex-motors					
43	Type of protection	* Ex nA II T3				
44						
Variant Codes / Definition						
	332 = Baldor catalog number					
	531 = Sea freight packaging					
Remarks:						
Data based on situation 11/22/2012						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						
* For more information on the Atex/IECEx rating, please contact your local Baldor representative.						


ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident
			Pages 2(3)

Product TEFC, 3-phase, squirrel cage induction motor
Type/Frame M3GP 280 SMA 4
Product code MM28754-EX1
Rated output P_N 75 kW
Type of duty S1(IEC) 100%

Voltage (V) 400 **Current I_N (A)** 134 **Power factor at P_N** 0.85
Frequency (Hz) 50 **Speed (r/min)** 1484 **Efficiency (%) at P_N** 94.5

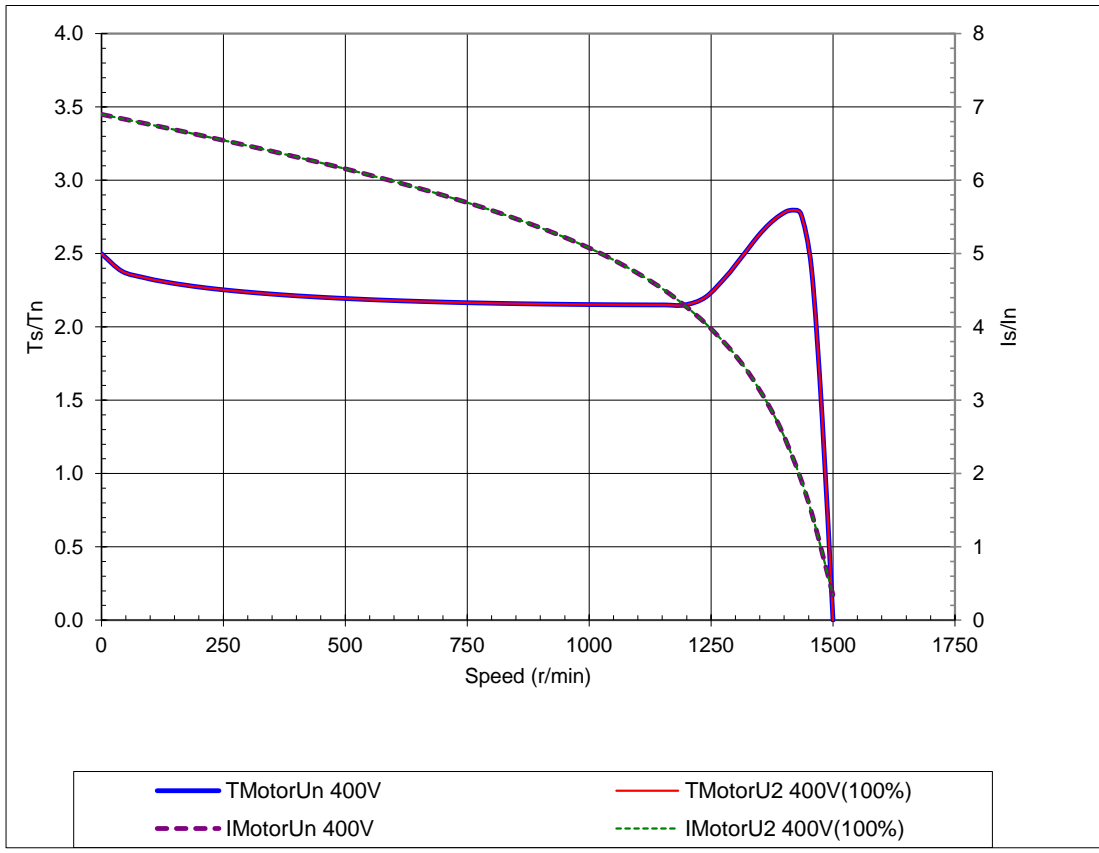


Load characteristics (IEC 60034-2-1:2007)
 Data based on situation 11/22/2012
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ABB Motors and Generators	Starting Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3GP 280 SMA 4		
Product code	MM28754-EX1	Frequency (Hz)	50
Rated output P _N	75 kW	Rated current I _N	134 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm ²)	1.3	Voltage (V) 100%	400	Voltage (V)	400V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N	2.5
Speed (r/min)	1484	Starting time (s)		Run-up time (s)	
T _N (Nm)	483	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	6.9	I _s /I _n	6.9
Nbr. of consecutive starts		T _{max} /T _n	2.8	T _{max} /T _n	2.8



Load characteristics (IEC 60034-2-1:2007)
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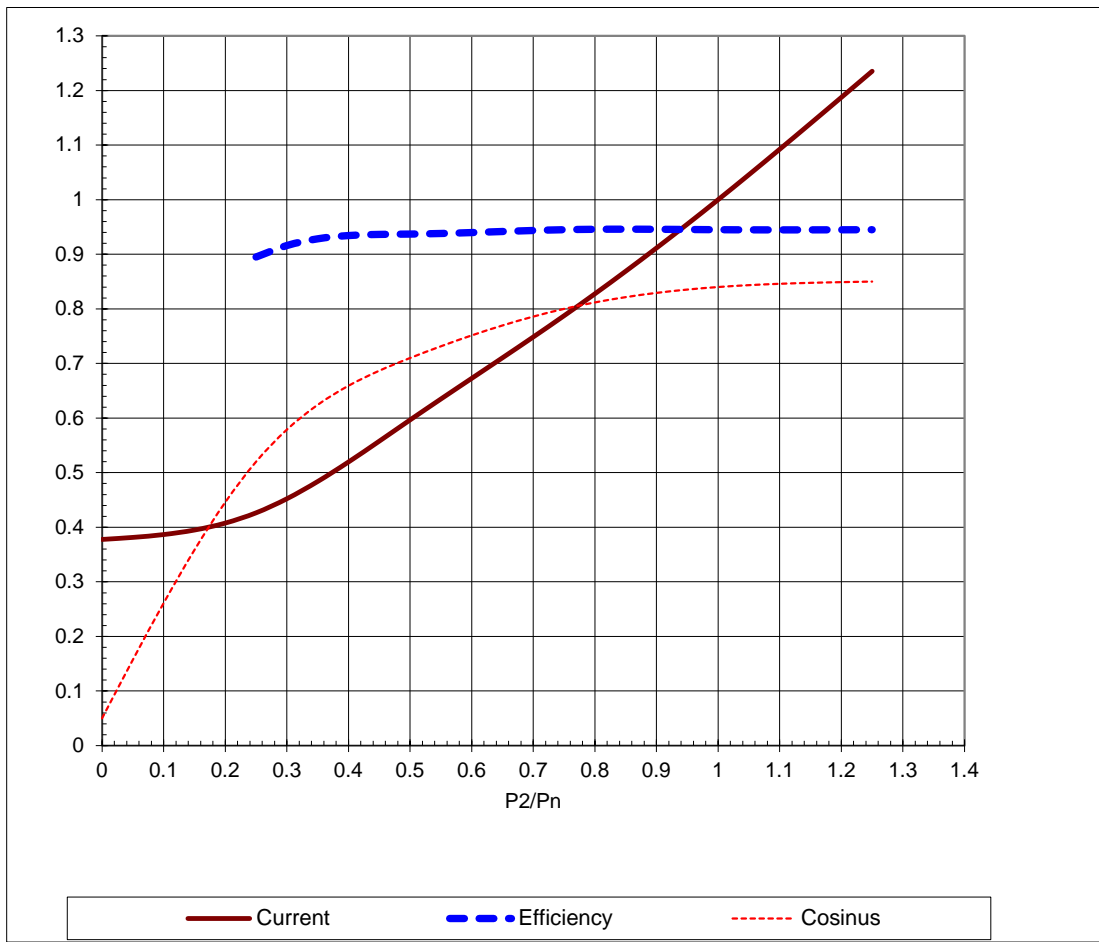
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No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM28754-EX1 (3GGP282210-ADG+332+531)				
3	Type/Frame	M3GP 280 SMA 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	75	kW			
6	Service factor	1				
7	Type of duty	S1(IEC) 100%				
8	Rated voltage U _N	415	VD	± 5 % (IEC 60034-1)		
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)		
10	Rated speed n _N	1486	r/min			
11	Rated current I _N	131	A			
12	No-load current	50	A			
13	Starting current I _s /I _N	7.3		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T _N	482	Nm			
15	Locked rotor torque T _s /T _N	2.7				
16	Maximum torque T _{max} /T _N	3				
17	Minimum torque T _{min} /T _N	2.3				
18	Speed at minimum torque	1200	r/min			
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor	
20	PLL determined from residual loss	100	131	94.5 / IE2	0.84	
21		75	103	94.5	0.8	
22		50	78.4	93.7	0.71	
23		Start	959		0.42	
24	Maximum starting time from hot	18	s			
25	Maximum starting time from cold	36	s			
26	Insulation class / Temperature class	F / B				
27	Ambient temperature	40	°C			
28	Altitude	1000	m.a.s.l.			
29	Enclosure	IP55				
30	Cooling system	IC411 self ventilated				
31	Bearing DE/NDE	6316/C3 - 6316/C3				
32	Type of Grease	Lithium based				
33	Sound pressure level (LP dB(A) 1m)	68	dB(A)	at load		
34	Moment of inertia J = ¼ GD2	1.25	kg-m2			
35	Balancing	Half Key				
36	Vibration class	Grade A				
37	Position of terminal box	Top				
38	Terminal box entries; no, dimens.	2xM63x1.5 + 2xM20x1.5				
39	Number of power terminals	6				
40	Direction of rotation	CW or CCW				
41	Total weight of motor	625	kg			
42	Ex-motors					
43	Type of protection	* Ex nA II T3				
44						
Variant Codes / Definition						
	332 = Baldor catalog number					
	531 = Sea freight packaging					
Remarks:						
Data based on situation 11/22/2012						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						
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ABB Motors and Generators	Load Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed by	Date of issue	Saving ident
			Pages 2(3)

Product TEFC, 3-phase, squirrel cage induction motor
Type/Frame M3GP 280 SMA 4
Product code MM28754-EX1
Rated output P_N 75 kW
Type of duty S1(IEC) 100%

Voltage (V) 415 **Current I_N (A)** 131 **Power factor at P_N** 0.84
Frequency (Hz) 50 **Speed (r/min)** 1486 **Efficiency (%) at P_N** 94.5

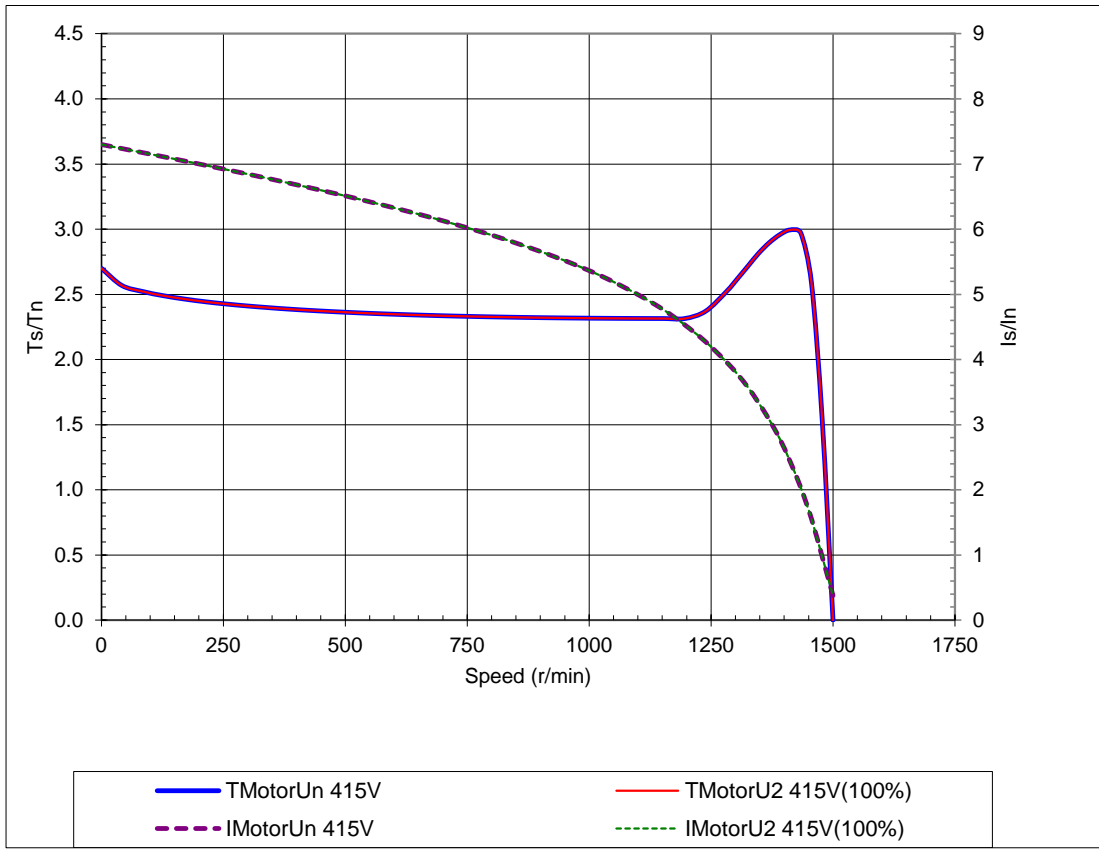


Load characteristics (IEC 60034-2-1:2007)
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ABB Motors and Generators	Starting Curves		
	Project	Location	
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Our ref.	Rev/Changed b Date of issue	Saving ident	Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3GP 280 SMA 4		
Product code	MM28754-EX1	Frequency (Hz)	50
Rated output P _N	75 kW	Rated current I _N	131 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm ²)	1.3	Voltage (V) 100%	415	Voltage (V)	415V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.7	T _{start} /T _N	2.7
Speed (r/min)	1486	Starting time (s)		Run-up time (s)	
T _N (Nm)	482	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	7.3	I _s /I _n	7.3
Nbr. of consecutive starts		T _{max} /T _n	3	T _{max} /T _n	3



Load characteristics (IEC 60034-2-1:2007)
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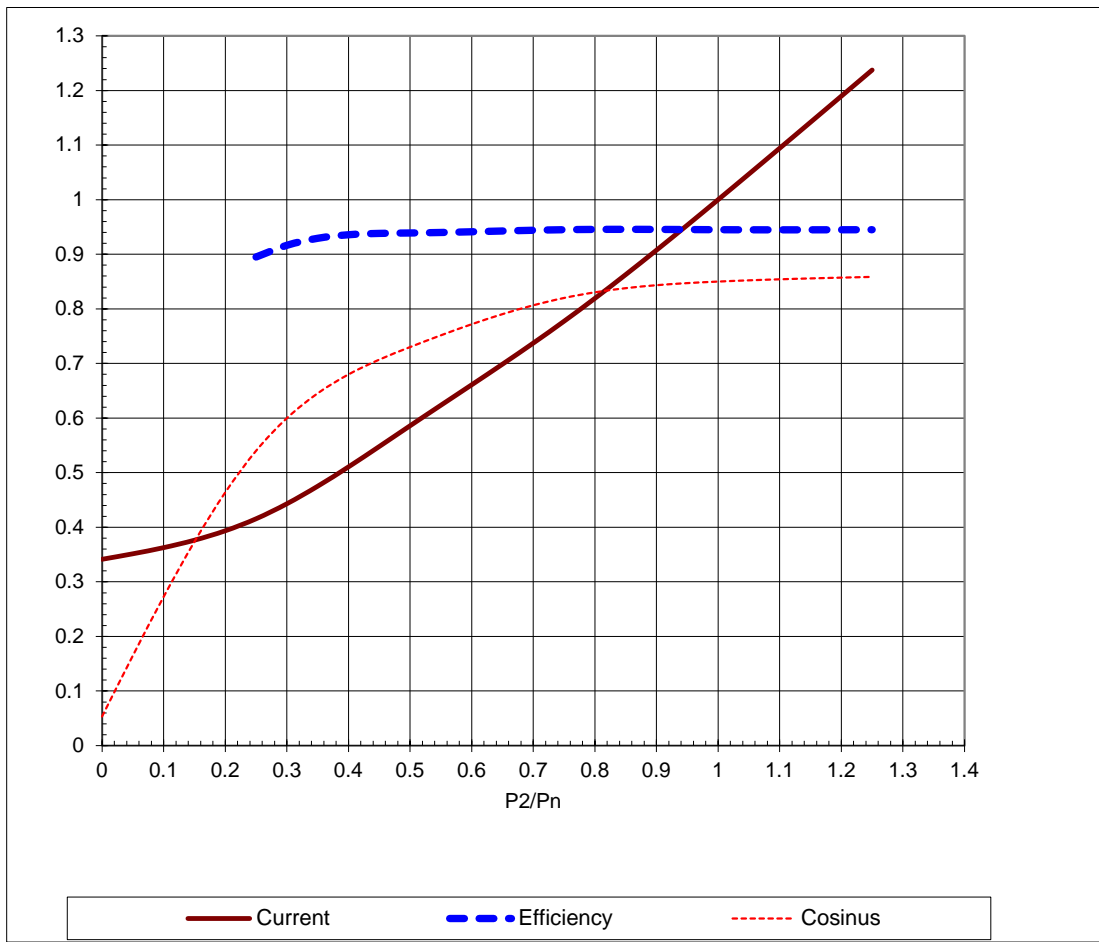
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2	Product code	MM28754-EX1 (3GGP282210-ADG+332+531)				
3	Type/Frame	M3GP 280 SMA 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	75	kW			
6	Service factor	1				
7	Type of duty	S1(IEC) 100%				
8	Rated voltage U _N	690	VY	± 5 % (IEC 60034-1)		
9	Rated frequency f _N	50	Hz	± 2 % (IEC 60034-1)		
10	Rated speed n _N	1484	r/min			
11	Rated current I _N	78.1	A			
12	No-load current	27	A			
13	Starting current I _s /I _N	6.9		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T _N	483	Nm			
15	Locked rotor torque T _s /T _N	2.5				
16	Maximum torque T _{max} /T _N	2.8				
17	Minimum torque T _{min} /T _N	2.2				
18	Speed at minimum torque	1200	r/min			
19	Load characteristics (IEC 60034-2-1:2007)	Load %	Current A	Efficiency %	Power factor	
20	PLL determined from residual loss	100	78.1	94.5 / IE2	0.85	
21		75	60.7	94.5	0.82	
22		50	45.7	93.9	0.73	
23		Start	539		0.42	
24	Maximum starting time from hot	18	s			
25	Maximum starting time from cold	32	s			
26	Insulation class / Temperature class	F / B				
27	Ambient temperature	40	°C			
28	Altitude	1000	m.a.s.l.			
29	Enclosure	IP55				
30	Cooling system	IC411 self ventilated				
31	Bearing DE/NDE	6316/C3 - 6316/C3				
32	Type of Grease	Lithium based				
33	Sound pressure level (LP dB(A) 1m)	68	dB(A)	at load		
34	Moment of inertia J = ¼ GD2	1.25	kg-m2			
35	Balancing	Half Key				
36	Vibration class	Grade A				
37	Position of terminal box	Top				
38	Terminal box entries; no, dimens.	2xM63x1.5 + 2xM20x1.5				
39	Number of power terminals	6				
40	Direction of rotation	CW or CCW				
41	Total weight of motor	625	kg			
42						
Ex-motors						
43	Type of protection	* Ex nA II T3				
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Variant Codes / Definition						
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	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
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Product TEFC, 3-phase, squirrel cage induction motor
Type/Frame M3GP 280 SMA 4
Product code MM28754-EX1
Rated output P_N 75 kW
Type of duty S1(IEC) 100%

Voltage (V) 690 **Current I_N (A)** 78.1 **Power factor at P_N** 0.85
Frequency (Hz) 50 **Speed (r/min)** 1484 **Efficiency (%) at P_N** 94.5

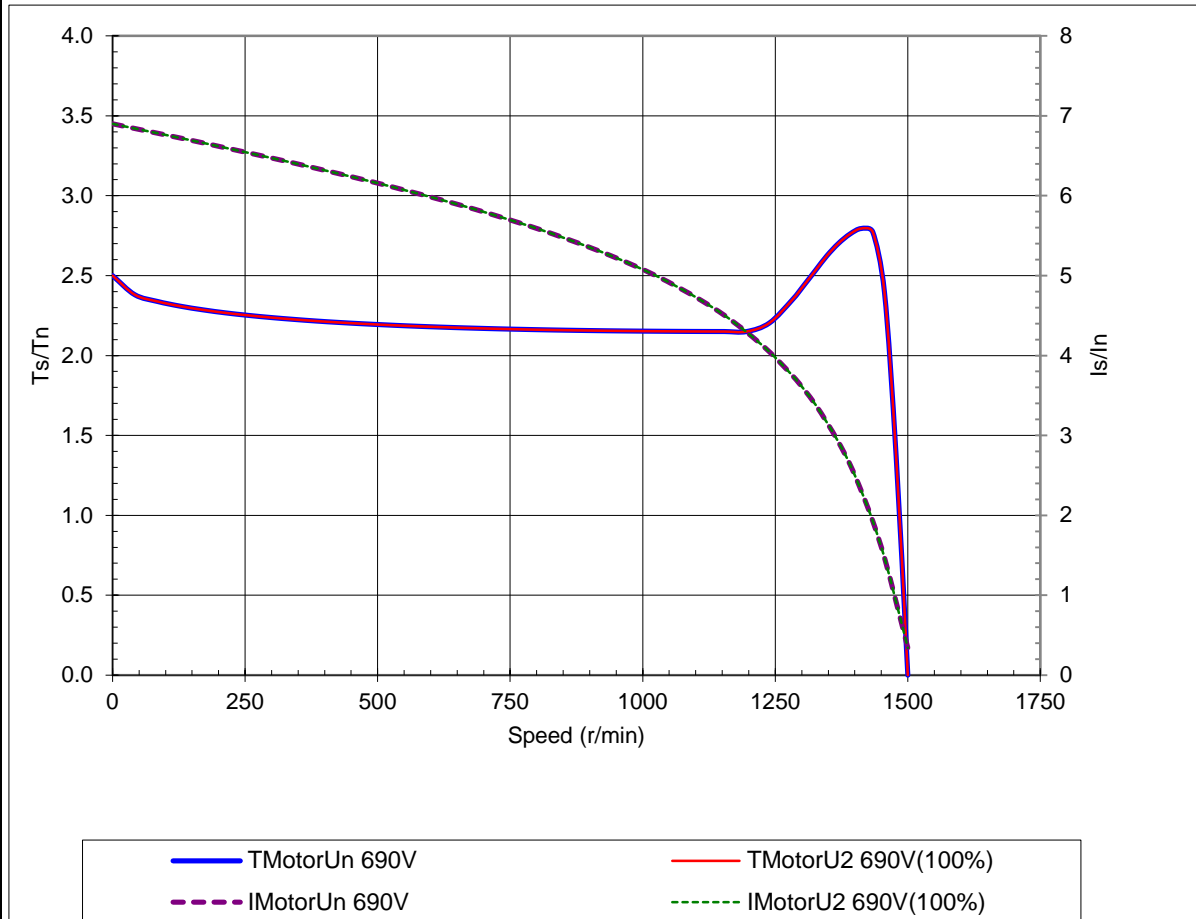


Load characteristics (IEC 60034-2-1:2007)
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ABB Motors and Generators	Starting Curves		
	Project	Location	
Department/Author	Customer name	Customer ref.	Item name
Our ref.	Rev/Changed b Date of issue	Saving ident	Pages 3(3)

Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3GP 280 SMA 4		
Product code	MM28754-EX1	Frequency (Hz)	50
Rated output P _N	75 kW	Rated current I _N	78.1 A
Type of duty	S1(IEC) 100%		

J _{motor} (kgm ²)	1.3	Voltage (V) 100%	690	Voltage (V)	690V(100%)
J _{load} (kgm ²)		T _{start} /T _N	2.5	T _{start} /T _N	2.5
Speed (r/min)	1484	Starting time (s)		Run-up time (s)	
T _N (Nm)	483	Speed (r/min)		Speed (r/min)	
T _{load} (Nm)		I _s /I _n	6.9	I _s /I _n	6.9
Nbr. of consecutive starts		T _{max} /T _n	2.8	T _{max} /T _n	2.8



Load characteristics (IEC 60034-2-1:2007)
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