

ABB Motors and Generators		Technical Data Sheet - DOL			
Project		Location			
Department/Author		Customer name		Customer ref.	
Our ref.		Rev/Changed by A		Date of issue 12/23/2015	
		Saving ident untitled.xls		Item name 1.00001	
				Pages 1(3)	

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM25554-PPN (3GBP252210-ADG+332+333)			
3	Type/Frame	Calc. ref. 3GZF021025-143			
4	Mounting	M3BP 250SMA 4			
5	Rated output P_N	IM1001, B3(foot)			
6	Service factor	55 kW			
7	Type of duty	1			
8	Rated voltage U_N	S1(IEC) 100%			
9	Rated frequency f_N	400 VD $\pm 5\%$ (IEC 60034-1)			
10	Rated speed n_N	50 Hz $\pm 2\%$ (IEC 60034-1)			
11	Rated current I_N	1480 r/min			
12	No-load current	98.4 A			
13	Starting current I_s/I_N	36 A			
14	Nominal torque T_N	7 Fullfilled IEC 60034-12 design N,H			
15	Locked rotor torque T_s/T_N	355 Nm			
16	Maximum torque T_{max}/T_N	2.6			
17	Minimum torque T_{min}/T_N	2.9			
18	Speed at minimum torque	2			
19	Load characteristics (IEC 60034-2-1:2007)	945 r/min			
20	PLL determined from residual loss	Load %	Current A	Efficiency %	Power factor
21		100	98.4	94.4 / IE2	0.85
22		75	76.9	94.9	0.82
23		50	56.8	94.6	0.74
24		Start	689		0.42
25	Maximum starting time from hot	15 s			
26	Maximum starting time from cold	27 s			
27	Insulation class / Temperature class	F / B			
28	Ambient temperature	40 °C			
29	Altitude	1000 m.a.s.l.			
30	Enclosure	IP55			
31	Cooling system	IC411 self ventilated			
32	Bearing DE/NDE	6315/C3 - 6213/C3			
33	Type of Grease				
34	Sound pressure level (LP dB(A) 1m)	67 dB(A) at load			
35	Moment of inertia $J = \frac{1}{4} GD^2$	0.765 kg-m2			
36	Balancing				
37	Vibration class				
38	Position of terminal box	Top			
39	Terminal box entries; no, dimens.				
40	Number of power terminals				
41	Direction of rotation	CW or CCW			
42	Total weight of motor	414 kg			
43	Dimension drawing no.				
44					
45					
46	Ex-motors				
47					
48					
Option Variant Codes / Definition					
49	332 = Baldor Catalog number stamped on rating plate				
50	333 = Not for use in the USA				
51					
52					
Remarks:					
Data based on situation 9/11/2015					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					

ABB Motors and Generators Load Curves			
Project		Location	
Department/Author	Customer name	Customer ref.	Item name 1.00001
Our ref.	Rev/Changed by A	Date of issue 12/23/2015	Saving ident untitled.xls Pages 2(3)
Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG		
Rated output P _N	55	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	400	Current I _N (A)	98.4
Frequency (Hz)	50	Speed (r/min)	1480
		Power factor at P _N	0.85
		Efficiency (%) at P _N	94.4
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 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 1.00001
Our ref.	Rev/Changed b Date of issue A 12/23/2015	Saving ident untitled.xls	Pages 3(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG	Frequency (Hz)	50
Rated output P _N	55 kW	Rated current I _N	98.4 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.76	Voltage (V) 100%	400
J _{load} (kgm ²)		T _{start} /T _N	2.6
Speed (r/min)	1480	Starting time (s)	
T _N (Nm)	355	Speed (r/min)	
T _{load} (Nm)		I _s /I _N	7
Nbr. of consecutive starts		T _{max} /T _N	2.9
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 All data subject to tolerances in accordance with IEC			

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Department/Author	Customer name	Customer ref.		Item name 2.00001		
Our ref.	Rev/Changed by A	Date of issue 12/23/2015	Saving ident untitled.xls	Pages 1(3)		
No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM25554-PPN (3GBP252210-ADG+332+333)		Calc. ref.	3GZF021025-143	
3	Type/Frame	M3BP 250SMA 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P _N	55	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	1481	r/min			
11	Rated current I _N	97	A			
12	No-load current	39	A			
13	Starting current I _s /I _N	7.5	Fullfilled IEC 60034-12 design N,H			
14	Nominal torque T _N	355	Nm			
15	Locked rotor torque T _s /T _N	2.8				
16	Maximum torque T _{max} /T _N	3.2				
17	Minimum torque T _{min} /T _N	2				
18	Speed at minimum torque	945	r/min			
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	97	94.4 / IE2	0.84	
20		75	76	94.8	0.8	
21		50	57.8	94.5	0.7	
22		Start	727		0.43	
23	Maximum starting time from hot	15	s			
24	Maximum starting time from cold	27	s			
25	Insulation class / Temperature class	F / B				
26	Ambient temperature	40	°C			
27	Altitude	1000	m.a.s.l.			
28	Enclosure	IP55				
29	Cooling system	IC411 self ventilated				
30	Bearing DE/NDE	6315/C3 - 6213/C3				
31	Type of Grease					
32	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load		
33	Moment of inertia J = ¼ GD2	0.765	kg-m2			
34	Balancing					
35	Vibration class					
36	Position of terminal box	Top				
37	Terminal box entries; no, dimens.					
38	Number of power terminals					
39	Direction of rotation	CW or CCW				
40	Total weight of motor	414	kg			
41	Dimension drawing no.					
42						
43						
44						
45						
Ex-motors						
46						
47						
48						
Option Variant Codes / Definition						
49	332 = Baldor Catalog number stamped on rating plate					
50	333 = Not for use in the USA					
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Remarks:						
Data based on situation 9/11/2015						
All data subject to tolerances in accordance with IEC						
Guaranteed values on request						

ABB Motors and Generators Load Curves			
Department/Author	Customer name	Customer ref.	Item name 2.00001
Our ref.	Rev/Changed by A	Date of issue 12/23/2015	Saving ident untitled.xls Pages 2(3)
Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG		
Rated output P _N	55	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	415	Current I _N (A)	97
Frequency (Hz)	50	Speed (r/min)	1481
		Power factor at P _N	0.84
		Efficiency (%) at P _N	94.4
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 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 2.00001
Our ref.	Rev/Changed b Date of issue A 12/23/2015	Saving ident untitled.xls	Pages 3(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG	Frequency (Hz)	50
Rated output P _N	55 kW	Rated current I _N	97 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.76	Voltage (V) 100%	415
J _{load} (kgm ²)		T _{start} /T _N	2.8
Speed (r/min)	1481	Starting time (s)	
T _N (Nm)	355	Speed (r/min)	
T _{load} (Nm)		I _s /I _n	7.5
Nbr. of consecutive starts		T _{max} /T _n	3.2
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 All data subject to tolerances in accordance with IEC			

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No.	Definition	Data	Unit	Remarks		
1	Product	TEFC, 3-phase, squirrel cage induction motor				
2	Product code	MM25554-PPN (3GBP252210-ADG+332+333) Calc. ref. 3GZF021025-143				
3	Type/Frame	M3BP 250SMA 4				
4	Mounting	IM1001, B3(foot)				
5	Rated output P_N	55	kW			
6	Service factor	1				
7	Type of duty	S1(IEC) 100%				
8	Rated voltage U_N	690	VY	$\pm 5\%$ (IEC 60034-1)		
9	Rated frequency f_N	50	Hz	$\pm 2\%$ (IEC 60034-1)		
10	Rated speed n_N	1480	r/min			
11	Rated current I_N	57.1	A			
12	No-load current	21	A			
13	Starting current I_s/I_N	7		Fullfilled IEC 60034-12 design N,H		
14	Nominal torque T_N	355	Nm			
15	Locked rotor torque T_s/T_N	2.6				
16	Maximum torque T_{max}/T_N	2.9				
17	Minimum torque T_{min}/T_N	2.2				
18	Speed at minimum torque	945	r/min			
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %	Power factor	
19	PLL determined from residual loss	100	57.1	94.4 / IE2	0.85	
20		75	44.6	94.9	0.82	
21		50	32.9	94.6	0.74	
22		Start	399		0.42	
23	Maximum starting time from hot	15	s			
24	Maximum starting time from cold	27	s			
25	Insulation class / Temperature class	F / B				
26	Ambient temperature	40	°C			
27	Altitude	1000	m.a.s.l.			
28	Enclosure	IP55				
29	Cooling system	IC411 self ventilated				
30	Bearing DE/NDE	6315/C3 - 6213/C3				
31	Type of Grease					
32	Sound pressure level (LP dB(A) 1m)	67	dB(A)	at load		
33	Moment of inertia $J = \frac{1}{4} GD^2$	0.765	kg-m2			
34	Balancing					
35	Vibration class					
36	Position of terminal box	Top				
37	Terminal box entries; no, dimens.					
38	Number of power terminals					
39	Direction of rotation	CW or CCW				
40	Total weight of motor	414	kg			
41	Dimension drawing no.					
42						
43						
44						
45						
Ex-motors						
46						
47						
48						
Option Variant Codes / Definition						
49	332 = Baldor Catalog number stamped on rating plate					
50	333 = Not for use in the USA					
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Remarks:						
Data based on situation 9/11/2015						
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ABB Motors and Generators Load Curves			
Department/Author	Customer name	Customer ref.	Item name 3.00001
Our ref.	Rev/Changed by A	Date of issue 12/23/2015	Saving ident untitled.xls Pages 2(3)
Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG		
Rated output P _N	55	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	690	Current I _N (A)	57.1
Frequency (Hz)	50	Speed (r/min)	1480
		Power factor at P _N	0.85
		Efficiency (%) at P _N	94.4
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 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 3.00001
Our ref.	Rev/Changed b Date of issue A 12/23/2015	Saving ident untitled.xls	Pages 3(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG	Frequency (Hz)	50
Rated output P _N	55 kW	Rated current I _N	57.1 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.76	Voltage (V) 100%	690
J _{load} (kgm ²)		T _{start} /T _N	2.6
Speed (r/min)	1480	Starting time (s)	
T _N (Nm)	355	Speed (r/min)	
T _{load} (Nm)		I _s /I _N	7
Nbr. of consecutive starts		T _{max} /T _N	2.9
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 All data subject to tolerances in accordance with IEC			

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Project		Location			
Department/Author		Customer name		Customer ref.	
Our ref.		Rev/Changed by A		Date of issue 12/23/2015	
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				Pages 1(3)	

No.	Definition	Data	Unit	Remarks	
1	Product	TEFC, 3-phase, squirrel cage induction motor			
2	Product code	MM25554-PPN (3GBP252210-ADG+332+333)			
3	Type/Frame	Calc. ref. 3GZF021025-143			
4	Mounting	M3BP 250SMA 4			
5	Rated output P _N	IM1001, B3(foot)			
6	Service factor	55 kW			
7	Type of duty	1			
8	Rated voltage U _N	S1(IEC) 100%			
9	Rated frequency f _N	460 VD ± 5 % (IEC 60034-1)			
10	Rated speed n _N	60 Hz ± 2 % (IEC 60034-1)			
11	Rated current I _N	1782 r/min			
12	No-load current	87 A			
13	Starting current I _s /I _N	33 A			
14	Nominal torque T _N	8 Fullfilled IEC 60034-12 design N,H			
15	Locked rotor torque T _s /T _N	295 Nm			
16	Maximum torque T _{max} /T _N	2.8			
17	Minimum torque T _{min} /T _N	3.3			
18	Speed at minimum torque	2.5			
19	Load characteristics (IEC 60034-2-1:2007)	1134 r/min			
20	PLL determined from residual loss	Load %	Current A	Efficiency %	Power factor
21		100	87	95.0 / IE2	0.84
22		75	68.3	95.2	0.8
23		50	51.4	94.7	0.71
24		Start	696		0.42
25	Maximum starting time from hot	15 s			
26	Maximum starting time from cold	27 s			
27	Insulation class / Temperature class	F / B			
28	Ambient temperature	40 °C			
29	Altitude	1000 m.a.s.l.			
30	Enclosure	IP55			
31	Cooling system	IC411 self ventilated			
32	Bearing DE/NDE	6315/C3 - 6213/C3			
33	Type of Grease				
34	Sound pressure level (LP dB(A) 1m)	75 dB(A) at load			
35	Moment of inertia J = ¼ GD2	0.765 kg-m2			
36	Balancing				
37	Vibration class				
38	Position of terminal box	Top			
39	Terminal box entries; no, dimens.				
40	Number of power terminals				
41	Direction of rotation	CW or CCW			
42	Total weight of motor	414 kg			
43	Dimension drawing no.				
44					
45					
Ex-motors					
46					
47					
48					
Option Variant Codes / Definition					
49	332 = Baldor Catalog number stamped on rating plate				
50	333 = Not for use in the USA				
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Remarks:					
Data based on situation 9/11/2015					
All data subject to tolerances in accordance with IEC					
Guaranteed values on request					

ABB Motors and Generators Load Curves			
Department/Author	Customer name	Customer ref.	Item name 4.00001
Our ref.	Rev/Changed by A	Date of issue 12/23/2015	Saving ident untitled.xls Pages 2(3)
Product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG		
Rated output P _N	55	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	460	Current I _N (A)	87
Frequency (Hz)	60	Speed (r/min)	1782
		Power factor at P _N	0.84
		Efficiency (%) at P _N	95
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 All data subject to tolerances in accordance with IEC			

ABB Motors and Generators Starting Curves			
Department/Author	Customer name	Customer ref.	Item name 4.00001
Our ref.	Rev/Changed b Date of issue A 12/23/2015	Saving ident untitled.xls	Pages 3(3)
Type of product	TEFC, 3-phase, squirrel cage induction motor		
Type/Frame	M3BP 250SMA 4	Calc. ref.	3GZF021025-143
Product code	3GBP 252 210-ADG	Frequency (Hz)	60
Rated output P _N	55 kW	Rated current I _N	87 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.76	Voltage (V) 100%	460
J _{load} (kgm ²)		T _{start} /T _N	2.8
Speed (r/min)	1782	Starting time (s)	
T _N (Nm)	295	Speed (r/min)	
T _{load} (Nm)		I _s /I _N	8
Nbr. of consecutive starts		T _{max} /T _N	3.3
Load characteristics (IEC 60034-2-1:2007) Data based on situation 9/11/2015 All data subject to tolerances in accordance with IEC			