

ABB Motors and Generators		Technical Data Sheet - DOL		
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 1(3)
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM20302-PPN (3GBP201410-AD) Calc. ref. 3GZF021020-190		
3	Type/Frame	M3BP 200MLA 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P _N	30	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	2956	r/min	
11	Rated current I _N	51.9	A	
12	No-load current	11.2	A	
13	Starting current I _s /I _N	7.7		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T _N	97	Nm	
15	Locked rotor torque T _s /T _N	2.7		
16	Maximum torque T _{max} /T _N	3.1		
17	Minimum torque T _{min} /T _N	2.2		
18	Speed at minimum torque	540	r/min	
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	51.9	93.1 / IE2
20		75	39.2	93.5
21		50	27.8	92.8
22		Start	400	0.4
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	6312/C3 - 6210/C3		
31	Type of Grease			
32	Sound pressure level (LP dB(A) 1m)	72	dB(A)	at load
33	Moment of inertia J = ¼ GD2	0.178	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	283	kg	
41	Dimension drawing no.			
42				
43				
44				
45				
Ex-motors				
46				
47				
48				
Option Variant Codes / Definition				
49	+332 Baldor Catalogue #			
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			
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG		
Rated output P _N	30	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	400	Current I _N (A)	51.9
Frequency (Hz)	50	Speed (r/min)	2956
		Power factor at P _N	0.9
		Efficiency (%) at P _N	93.1
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG	Frequency (Hz)	50
Rated output P _N	30 kW	Rated current I _N	51.9 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.18	Voltage (V) 100%	400
J _{load} (kgm ²)		T _{start} /T _N	2.7
Speed (r/min)	2956	Starting time (s)	
T _N (Nm)	97	Speed (r/min)	
T _{load} (Nm)		I _s /I _N	7.7
Nbr. of Consecutive Starts at UN		T _{max} /T _N	3.1
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		Technical Data Sheet - DOL		
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 1(3)
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM20302-PPN (3GBP201410-AD) Calc. ref. 3GZF021020-190		
3	Type/Frame	M3BP 200MLA 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P_N	30	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	2960	r/min	
11	Rated current I_N	50	A	
12	No-load current	12	A	
13	Starting current I_s/I_N	8.3		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T_N	97	Nm	
15	Locked rotor torque T_s/T_N	3		
16	Maximum torque T_{max}/T_N	3.4		
17	Minimum torque T_{min}/T_N	2.2		
18	Speed at minimum torque	540	r/min	
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	50	93.2 / IE2
20		75	38.2	93.5
21		50	27.2	92.7
22		Start	415	0.4
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	6312/C3 - 6210/C3		
31	Type of Grease			
32	Sound pressure level (LP dB(A) 1m)	72	dB(A)	at load
33	Moment of inertia $J = \frac{1}{4} GD^2$	0.178	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	283	kg	
41	Dimension drawing no.			
42				
43				
44				
45				
Ex-motors				
46				
47				
48				
Option Variant Codes / Definition				
49	+332 Baldor Catalogue #			
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			
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG		
Rated output P _N	30	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	415	Current I _N (A)	50
Frequency (Hz)	50	Speed (r/min)	2960
		Power factor at P _N	0.9
		Efficiency (%) at P _N	93.2
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG	Frequency (Hz)	50
Rated output P _N	30 kW	Rated current I _N	50 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.18	Voltage (V) 100%	415
J _{load} (kgm ²)		T _{start} /T _N	3
Speed (r/min)	2960	Starting time (s)	
T _N (Nm)	97	Speed (r/min)	
T _{load} (Nm)		I _s /I _N	8.3
Nbr. of Consecutive Starts at UN		T _{max} /T _N	3.4
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		Technical Data Sheet - DOL		
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 1(3)
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM20302-PPN (3GBP201410-AD) Calc. ref. 3GZF021020-190		
3	Type/Frame	M3BP 200MLA 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P_N	30	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	2956	r/min	
11	Rated current I_N	30.1	A	
12	No-load current	6.4	A	
13	Starting current I_s/I_N	7.7		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T_N	97	Nm	
15	Locked rotor torque T_s/T_N	2.7		
16	Maximum torque T_{max}/T_N	3.1		
17	Minimum torque T_{min}/T_N	2.2		
18	Speed at minimum torque	540	r/min	
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	30.1	93.1 / IE2
20		75	22.7	93.5
21		50	16.1	92.8
22		Start	232	0.4
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	6312/C3 - 6210/C3		
31	Type of Grease			
32	Sound pressure level (LP dB(A) 1m)	72	dB(A)	at load
33	Moment of inertia $J = \frac{1}{4} GD^2$	0.178	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	283	kg	
41	Dimension drawing no.			
42				
43				
44				
45				
Ex-motors				
46				
47				
48				
Option Variant Codes / Definition				
49	+332 Baldor Catalogue #			
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	Date of issue
	A	12/23/2015
	Saving ident	untitled.xls
		Pages 2(3)
Product	TEFC, 3-phase, squirrel cage induction motor	
Type/Frame	M3BP 200MLA 2	Calc. ref. 3GZF021020-190
Product code	3GBP 201 410-ADG	
Rated output P _N	30	kW
Type of duty	S1(IEC) 100%	
Voltage (V)	690	Current I _N (A) 30.1
Frequency (Hz)	50	Speed (r/min) 2956
		Power factor at P _N 0.9
		Efficiency (%) at P _N 93.1
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG	Frequency (Hz)	50
Rated output P _N	30 kW	Rated current I _N	30.1 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.18	Voltage (V) 100%	690
J _{load} (kgm ²)		Voltage (V)	690V(100%)
Speed (r/min)	2956	T _{start} /T _N	2.7
T _N (Nm)	97	Starting time (s)	
T _{load} (Nm)		Speed (r/min)	
Nbr. of Consecutive Starts at UN		I _s /I _N	7.7
		T _{max} /T _N	3.1
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		Technical Data Sheet - DOL		
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 1(3)
No.	Definition	Data	Unit	Remarks
1	Product	TEFC, 3-phase, squirrel cage induction motor		
2	Product code	MM20302-PPN (3GBP201410-AD) Calc. ref. 3GZF021020-190		
3	Type/Frame	M3BP 200MLA 2		
4	Mounting	IM1001, B3(foot)		
5	Rated output P_N	30	kW	
6	Service factor	1		
7	Type of duty	S1(IEC) 100%		
8	Rated voltage U_N	460	VD	$\pm 5\%$ (IEC 60034-1)
9	Rated frequency f_N	60	Hz	$\pm 2\%$ (IEC 60034-1)
10	Rated speed n_N	3562	r/min	
11	Rated current I_N	45.5	A	
12	No-load current	10.6	A	
13	Starting current I_s/I_N	8.7		Fullfilled IEC 60034-12 design N,H
14	Nominal torque T_N	80	Nm	
15	Locked rotor torque T_s/T_N	2.8		
16	Maximum torque T_{max}/T_N	3.4		
17	Minimum torque T_{min}/T_N	2.3		
18	Speed at minimum torque	648	r/min	
Load characteristics (IEC 60034-2-1:2007)		Load %	Current A	Efficiency %
19	PLL determined from residual loss	100	45.5	92.3 / IE2
20		75	35	92
21		50	25.1	90.4
22		Start	396	0.37
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	6312/C3 - 6210/C3		
31	Type of Grease			
32	Sound pressure level (LP dB(A) 1m)	80	dB(A)	at load
33	Moment of inertia $J = \frac{1}{4} GD^2$	0.178	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	283	kg	
41	Dimension drawing no.			
42				
43				
44				
45				
Ex-motors				
46				
47				
48				
Option Variant Codes / Definition				
49	+332 Baldor Catalogue #			
50	+333 Not for use in the USA			
51				
52				
Remarks:				
Data based on situation 12/14/2015				
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG		
Rated output P _N	30	kW	
Type of duty	S1(IEC) 100%		
Voltage (V)	460	Current I _N (A)	45.5
Frequency (Hz)	60	Speed (r/min)	3562
		Power factor at P _N	0.9
		Efficiency (%) at P _N	92.3
Load characteristics (IEC 60034-2-1:2007) Data based on situation 12/14/2015 All data subject to tolerances in accordance with IEC			

ABB Motors and Generators Starting Curves			
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 200MLA 2	Calc. ref.	3GZF021020-190
Product code	3GBP 201 410-ADG	Frequency (Hz)	60
Rated output P _N	30 kW	Rated current I _N	45.5 A
Type of duty	S1(IEC) 100%		
J _{motor} (kgm ²)	0.18	Voltage (V) 100%	460
J _{load} (kgm ²)		T _{start} /T _N	2.8
Speed (r/min)	3562	Starting time (s)	
T _N (Nm)	80	Speed (r/min)	
T _{load} (Nm)		I _s /I _N	8.7
Nbr. of Consecutive Starts at UN		T _{max} /T _N	3.4
Load characteristics (IEC 60034-2-1:2007) Data based on situation 12/14/2015 All data subject to tolerances in accordance with IEC			