Rated data

- The data is valid for operation at 3/PE AC 400 V.
- Unless otherwise specified, the data refers to the default setting with a switching frequency of 8 kHz.

→ Other rated data, e.g. for operating with increased rated power
DS_GD_8200v_0001
Available for download at www.lenze.de/dsc

			
Motor power (asynchronous motor, 4-pole)	P_N [kW]	**7.5**	**11**
Product key Filter integrated [2] No filter		**E82EV752K4C** **E82EV752K4C200**	**E82EV113K4C** **E82EV113K4C200**
Mains voltage range	U_{Netz} [V]	3/PE AC 320 V-0 % ... 550 V+0 %; 45 Hz-0 % ... 65 Hz+0 %	
Alternative DC supply	U_{DC} [V]	DC 450 V-0 % ... 775 V+0 %	
Rated mains current Without mains choke With mains choke	 I_{Netz} [A] I_{Netz} [A]	 21.5 15	 [3] 21
Rated output current 8 kHz	I_N [A]	16.5	23.5
Max. output current 8 kHz [1]	I_{max} [A]	24.8	35.3
Brake chopper data Min. brake resistance	**R** [Ohm]	47	33
Power loss	P_V [W]	300	410
Dimensions Height Width Depth	 **H** [mm] **B** [mm] **T** [mm]	 240 125 140	
Mass	**m** [kg]	3.6	
Permissible motor cable length Shielded [4] Unshielded [4]	 **l** [m] **l** [m]	 50 100	

[1] 60 s
[2] Max. 20 m motor cable (shielded) for category C2 according to EN 61800-3 (motor cable length for category C1 depends on inverter type and switching frequency)
[3] Operation only permitted with mains choke
[4] Permissible cable length may be affected if EMC conditions have to be met.

→ Dimensioned drawings
DS_MB_8200v_0001
Available for download at www.lenze.de/dsc

Rated data

- The data is valid for operation at 3/PE AC 400 V.
- Unless otherwise specified, the data refers to the default setting with a switching frequency of 8 kHz.

→ Other rated data, e.g. for operating with increased rated power
DS_GD_8200v_0001
Available for download at www.lenze.de/dsc

				
Motor power (asynchronous motor, 4-pole)	P_N [kW]	**15**	**22**	**30**
Product key Without mains filter		**E82EV153K4B201**	**E82EV223K4B201**	**E82EV303K4B201**
Mains voltage range	U_{Netz} [V]	3/PE AC 320 V-0 % ... 550 V+0 %; 45 Hz-0 % ... 65 Hz+0 %		
Rated mains current Without mains choke	I_{Netz} [A]	43.5	[2]	
With mains choke	I_{Netz} [A]	29	42	55
Rated output current 8 kHz	I_N [A]	32	47	59
Max. output current 8 kHz [1]	I_{max} [A]	48	70.5	89
Power loss	P_V [W]	430	640	810
Dimensions Height	**H** [mm]	350		
Width	**B** [mm]	250		
Depth	**T** [mm]	250		
Mass	**m** [kg]	15		
Permissible motor cable length Shielded [3]	**l** [m]	50		
Unshielded [3]	**l** [m]	100		

[1] 60 s
[2] Operation only permitted with mains choke or mains filter
[3] Permissible cable length may be affected if EMC conditions have to be met.

→ Dimensioned drawings
DS_MB_8200v_0001
Available for download at www.lenze.de/dsc

Rated data

- The data is valid for operation at 3/PE AC 400 V.
- Unless otherwise specified, the data refers to the default setting with a switching frequency of 8 kHz.

→ Other rated data, e.g. for operating with increased rated power
DS_GD_8200v_0001
Available for download at www.lenze.de/dsc

					
Motor power (asynchronous motor, 4-pole)	P_N [kW]	**45**	**55**	**75**	**90**
Product key Without mains filter		**E82EV453K4B201**	**E82EV553K4B201**	**E82EV753K4B201**	**E82EV903K4B201**
Mains voltage range	U_{Netz} [V]	3/PE AC 320 V-0 % ... 550 V+0 %; 45 Hz-0 % ... 65 Hz+0 %			
Rated mains current Without mains choke	I_{Netz} [A]			[2]	
With mains choke	I_{Netz} [A]	80	100	135	165
Rated output current 8 kHz	I_N [A]	89	110	150	171
Max. output current 8 kHz [1]	I_{max} [A]	134	165	225	221
Power loss	P_V [W]	1100	1470	1960	2400
Dimensions Height	**H** [mm]	510	591	680	
Width	**B** [mm]	340		450	
Depth	**T** [mm]	285			
Mass	**m** [kg]	34	37	59	
Permissible motor cable length Shielded [3]	**l** [m]	50			
Unshielded [3]	**l** [m]	100			

[1] 60 s
[2] Operation only permitted with mains choke or mains filter
[3] Permissible cable length may be affected if EMC conditions have to be met.

→ Dimensioned drawings
DS_MB_8200v_0001
Available for download at www.lenze.de/dsc

Brake choppers and brake resistors

An external brake resistor is needed to decelerate larger moments of inertia or in the event of longer operations in generator mode. It converts braking energy into heat.
The brake resistors recommended in the table are designed for around 1.5 times the regenerative power for a cycle time of 15/135 s (brake/pause). The brake resistors are fitted with a thermostat (potential-free NC contact).

- The ERBD... brake resistors are tested according to UR

Brake resistance ERBM...(IP20)

Motor power	Mains voltage	Product key				Brake resistor data			
(asynchronous motor, 4-pole)		Inverter	Brake chopper	Quantity	Brake resistance	Quantity	Resistance	Continuous power	Thermal capacity
P_N [kW]	U_{Netz} [V]						R [Ohm]	P [W]	WK [kWs]
0.25	1 AC 230/240	E82EV251K2C	Integrated		ERBM470R020W	1	470	20	3
0.37		E82EV371K2C							
0.55	1 AC 230/240	E82EV551K2C			ERBM200R100W		200	100	15
0.75		E82EV751K2C							
1.5	3 AC 230/240	E82EV152K2C			ERBM082R150W		82	150	22.5
2.2		E82EV222K2C			ERBM052R200W		52	200	30
3	3 AC 230/240	E82EV302K2C			ERBD047R01K2		47	1200	174
4		E82EV402K2C							
5.5		E82EV552K2C							
7.5		E82EV752K2C							
0.55	3 AC 400/500	E82EV551K4C			ERBM470R100W		470	100	15
0.75		E82EV751K4C							
1.5		E82EV152K4C			ERBM370R150W		370	150	22.5
2.2		E82EV222K4C			ERBM240R200W		240	200	30
3		E82EV302K4C			ERBD180R300W		180	300	45
4		E82EV402K4C			ERBD100R600W		100	600	83
5.5		E82EV552K4C			ERBD082R600W		82		87
7.5		E82EV752K4C			ERBD068R800W		68	800	120
11		E82EV113K4C			ERBD047R01K2		47	1200	174
15		E82EV153K4B	EMB9352-E	1	ERBD033R02K0	2	33	2000	240
22		E82EV223K4B							
30		E82EV303K4B		2					
45		E82EV453K4B							
55		E82EV553K4B							
75		E82EV753K4B		3		3			
90		E82EV903K4B		4		4			

→ Data sheet on ERBD brake resistors
DS_ZB_ERBP_0001
Available for download at www.lenze.de/dsc

→ Data sheet on ERBM brake resistors
DS_ZB_ERBM_0001
Available for download at www.lenze.de/dsc

→ Data sheet on brake choppers
DS_ZB_EMB_0001
Available for download at www.lenze.de/dsc

Brake choppers and brake resistors

Motor power	Mains voltage	Product key			Brake resistor data	
(asyn-chronous motor, 4-pole)		Inverter	Brake chopper	Brake resistance	Dimensions	Mass
P_N [kW]	U_{Netz} [V]				**H x B x T** [mm]	**m** [kg]
0.25	1 AC 230/240	E82EV251K2C	Integrated	ERBM470R020W	160 x 45 x 36	0.3
0.37		E82EV371K2C				
0.55	1 AC 230/240 3 AC 230/240	E82EV551K2C		ERBM200R100W	160 x 80 x 95	0.6
0.75		E82EV751K2C				
1.5		E82EV152K2C		ERBM082R150W	240 x 80 x 95	1
2.2		E82EV222K2C		ERBM052R200W	340 x 80 x 66	1.3
3	3 AC 230/240	E82EV302K2C		ERBD047R01K2	639 x 172 x 142	4.9
4		E82EV402K2C				
5.5		E82EV552K2C				
7.5		E82EV752K2C				
0.55	3 AC 400/500	E82EV551K4C		ERBM470R100W	240 x 70 x 59	0.8
0.75		E82EV751K4C				
1.5		E82EV152K4C		ERBM370R150W	240 x 80 x 95	1
2.2		E82EV222K4C		ERBM240R200W	340 x 80 x 66	1.3
3		E82EV302K4C		ERBD180R300W	439 x 64 x 142	2
4		E82EV402K4C		ERBD100R600W	639 x 64 x 142	3.1
5.5		E82EV552K4C		ERBD082R600W		
7.5		E82EV752K4C		ERBD068R800W	539 x 172 x 142	4.3
11		E82EV113K4C		ERBD047R01K2	639 x 172 x 142	4.9
15		E82EV153K4B	EMB9352-E	ERBD033R02K0	639 x 262 x 142	7.1
22		E82EV223K4B		ERBD022R03K0	739 x 172 x 247	10.6
30		E82EV303K4B		ERBD018R03K0		
45		E82EV453K4B		ERBD022R03K0		
55		E82EV553K4B		ERBD018R03K0		
75		E82EV753K4B		ERBD022R03K0		
90		E82EV903K4B		ERBD018R03K0		

→ Data sheet on brake choppers
DS_ZB_EMB_0001
Available for download at www.lenze.de/dsc

→ Data sheet on brake resistors
DS_ZB_EBR_0001
Available for download at www.lenze.de/dsc

Mains chokes

A mains choke is an inductance which is switched in the inverter's mains cable. Using a mains choke delivers the following benefits:

- **less system perturbation:**
  the curved shape of the mains current approaches a sine shape.
- **reduction in effective mains current:**
  reduction in mains, cable and fuse load.

There are no limitations on using a mains choke together with RFI filters and/or motor filters.

Please note:

- when using a mains choke, the mains voltage on the inverter input is reduced slightly – typical voltage drop on the mains choke at the rated point approx. 5%.
- A mains choke or mains filter always has to be used for some inverters because otherwise the permissible rated data for the components used may be exceeded as a result of excess mains currents.
- The following assignment applies to operation with rated power.

Motor power	Mains voltage	Product key		Mains choke data		
(asynchronous motor, 4-pole)		Inverter	Mains choke	Rated current	Dimensions	Mass
P_N [kW]	U_{Netz} [V]			I_N [A]	H x B x T [mm]	m [kg]
0.25	1 AC 230/240	E82EV251K2C	ELN1-0900H005	5	80 x 66 x 67	2.3
0.37		E82EV371K2C				
0.55	1 AC 230/240 3 AC 230/240	E82EV551K2C	ELN1-0500H009	9		1
			EZN3A1500H003	3	155 x 95 x 82	1.1
0.75		E82EV751K2C	ELN1-0500H009	9	80 x 66 x 67	1
			EZN3A1500H003	3	155 x 95 x 82	1.1
1.5		E82EV152K2C	ELN1-0250H018	18	120 x 108 x 103	2.3
			E82ZL22234B	6.1	120 x 61 x 126	2
2.2		E82EV222K2C [1]	ELN1-0250H018	18	120 x 108 x 103	2.3
			E82ZL22234B	6.1	120 x 61 x 126	2
3	3 AC 230/240	E82EV302K2C	ELN3-0120H017	17	120 x 65 x 162	3
4		E82EV402K2C				
5.5		E82EV552K2C	ELN3-0120H025	25	150 x 100 x 185	5.7
7.5		E82EV752K2C [1]	ELN3-0088H035	35	180 x 125 x 225	9.8
0.55	3 AC 400/500	E82EV551K4C	EZN3A1500H003	3	155 x 95 x 82	1.1
0.75		E82EV751K4C				
1.5		E82EV152K4C	E82ZL22234B	6.1	120 x 61 x 126	2
2.2		E82EV222K4C				
3		E82EV302K4C	EZN3A0500H007	7	138 x 119 x 95	2.5
4		E82EV402K4C	EZN3A0300H013	13	162 x 150 x 106	5.2
5.5		E82EV552K4C				
7.5		E82EV752K4C	ELN3-0120H017	17	120 x 65 x 162	3
11		E82EV113K4C [1]	ELN3-0150H024	24	180 x 86 x 192	8
15		E82EV153K4B	ELN3-0088H035	35	180 x 125 x 225	9.8
22		E82EV223K4B [1]	ELN3-0075H045	45		10.1
30		E82EV303K4B [1]	ELN3-0055H055	55	228 x 120 x 265	13
45		E82EV453K4B [1]	ELN3-0038H085	85	228 x 111 x 263	19.5
55		E82EV553K4B [1]	ELN3-0027H105	105	228 x 155 x 265	20.2
75		E82EV753K4B [1]	ELN3-0022H130	130	264 x 135 x 265	21.4
90		E82EV903K4B [1]	ELN3-0017H170	170	265 x 170 x 268	30.3

[1] Operation only permitted with mains choke or mains filter

→ Data sheet on mains chokes
DS_ZB_ELN_0001
Available for download at www.lenze.de/dsc

→ Data sheet for mains chokes for operating with increased rated power
DS_ZB_ELN_0002
Available for download at www.lenze.de/dsc

RFI filter

RFI filters are used to observe EMC requirements as stated in European standard EN 61800-3. This lays down EMC requirements for electric drive systems in various categories.
Category C1 applies in public networks (residential areas). In terms of limit values, category C1 corresponds to class B as laid down in EN 55011.
Category C2 applies in industrial premises, but also in residential areas if deemed appropriate by the user. In terms of limit values, category C2 corresponds to class A as laid down in EN 55011.

RFI filter

The 8200 vector with integrated RFI measures satisfies the standard EMC requirements. In the event of more stringent requirements of the noise emission, which cannot be achieved with the RFI measures integrated in the inverter, external filters can be used in the power range of up to 11 kW.

- Important: only use RFI filters in combination with 8200 vector without integrated filters! (E82EV□□□K□C200)
- The motor cable lengths stated are maximum values and depend on the inverter type and switching frequency.

Three different filter types are available:

- LL (Low Leakage) RFI filter with a discharge current < 3.5 mA over 5 m of shielded motor cable allows for installation in portable systems
  (category C1 with 5 m of shielded motor cable).
- SD (Short Distance) RFI filter with low discharge current, e.g. for operation on a 30 mA earth-leakage circuit-breaker with 10 m of shielded motor cable (guide value) (category C1 with 20 m of shielded motor cable, category C2 with 20 m of shielded motor cable)
- LD (Long Distance) RFI filter for operation with long motor cables
  (category C1 with 50 m of shielded motor cable, category C2 with 50 m of shielded motor cable).
  The LD RFI filter and motor filter combination ensures compliance with category C1 with 100 m of shielded motor cable.

→ Data sheet on RFI filters
DS_ZB_EZF_0001
Available for download at www.lenze.de/dsc

RFI filter

Motor power	Mains voltage	Product key		RFI filter data			
(asynchronous motor, 4-pole)		Inverter	RFI filter	Design	Rated current	Dimensions	Mass
P_N [kW]	U_{Netz} [V]				I_N [A]	H x B x T [mm]	m [kg]
0.25	1 AC 230/240	E82EV251K2C200	E82ZZ37112B200 E82ZZ37112B210 E82ZZ37112B220	SD LD LL	3.1 3.1 3.1	217 x 60 x 30 217 x 60 x 30 217 x 60 x 30	0.5 0.5 0.5
0.37	1 AC 230/240	E82EV371K2C200	E82ZZ37112B200 E82ZZ37112B210 E82ZZ37112B220	SD LD LL	3.1 3.1 3.1	217 x 60 x 30 217 x 60 x 30 217 x 60 x 30	0.5 0.5 0.5
0.55	1 AC 230/240 3 AC 230/240	E82EV551K2C200	E82ZZ75112B200 E82ZZ75112B210 E82ZZ75112B220 E82ZZ75132B200 E82ZZ75132B210	SD LD LL SD LD	5.9 5.9 5.9 3.4 3.4	277 x 60 x 40 277 x 60 x 40 277 x 60 x 40 277 x 60 x 40 277 x 60 x 40	0.8 0.8 0.8 0.8 0.8
0.75	1 AC 230/240 3 AC 230/240	E82EV751K2C200	E82ZZ75112B200 E82ZZ75112B210 E82ZZ75112B220 E82ZZ75132B200 E82ZZ75132B210	SD LD LL SD LD	5.9 5.9 5.9 3.4 3.4	277 x 60 x 40 277 x 60 x 40 277 x 60 x 40 277 x 60 x 40 277 x 60 x 40	0.8 0.8 0.8 0.8 0.8
1.5	1 AC 230/240 3 AC 230/240	E82EV152K2C200	E82ZZ22212B200 E82ZZ22212B210 E82ZZ22232B200 E82ZZ22232B210	SD LD SD LD	11.2 11.2 7.8 7.8	337 x 60 x 40 337 x 60 x 40 337 x 60 x 40 337 x 60 x 40	0.9 0.9 0.8 0.8
2.2	1 AC 230/240 3 AC 230/240	E82EV222K2C200	E82ZZ22212B200 E82ZZ22212B210 E82ZZ22232B200 E82ZZ22232B210	SD LD SD LD	11.2 11.2 7.8 7.8	337 x 60 x 40 337 x 60 x 40 337 x 60 x 40 337 x 60 x 40	0.9 0.9 0.8 0.8
3	3 AC 230/240	E82EV302K2C200	E82ZZ40232B200 E82ZZ40232B210	SD LD	13.7 13.7	337 x 100 x 60 337 x 100 x 60	1.7 1.7
4	3 AC 230/240	E82EV402K2C200	E82ZZ40232B200 E82ZZ40232B210	SD LD	13.7 13.7	337 x 100 x 60 337 x 100 x 60	1.7 1.7
5.5	3 AC 230/240	E82EV552K2C200	E82ZZ75232B200 E82ZZ75232B210	SD LD	18.7 18.7	337 x 125 x 60 337 x 125 x 60	2.1 2.1
7.5	3 AC 230/240	E82EV752K2C200	E82ZZ75232B200 E82ZZ75232B210	SD LD	18.7 18.7	337 x 125 x 60 337 x 125 x 60	2.1 2.1
0.55	3 AC 400/500	E82EV551K4C200	E82ZZ75134B200 E82ZZ75134B210	SD LD	2.1 2.1	277 x 60 x 40 277 x 60 x 40	1.7 1.7
0.75	3 AC 400/500	E82EV751K4C200	E82ZZ75134B200 E82ZZ75134B210	SD LD	2.1 2.1	277 x 60 x 40 277 x 60 x 40	1.7 1.7
1.5	3 AC 400/500	E82EV152K4C200	E82ZZ22234B200 E82ZZ22234B210	SD LD	4.5 4.5	337 x 60 x 40 337 x 60 x 40	0.9 0.9
2.2	3 AC 400/500	E82EV222K4C200	E82ZZ22234B200 E82ZZ22234B210	SD LD	4.5 4.5	337 x 60 x 40 337 x 60 x 40	0.9 0.9
3	3 AC 400/500	E82EV302K4C200	E82ZZ55234B200 E82ZZ55234B210	SD LD	10.5 10.5	337 x 100 x 60 337 x 100 x 60	1.7 1.7
4	3 AC 400/500	E82EV402K4C200	E82ZZ55234B200 E82ZZ55234B210	SD LD	10.5 10.5	337 x 100 x 60 337 x 100 x 60	1.7 1.7
5.5	3 AC 400/500	E82EV552K4C200	E82ZZ55234B200 E82ZZ55234B210	SD LD	10.5 10.5	337 x 100 x 60 337 x 100 x 60	1.7 1.7
7.5	3 AC 400/500	E82EV752K4C200	E82ZZ11334B200 E82ZZ11334B210	SD LD	13.1 13.1	337 x 125 x 60 337 x 125 x 60	2.1 2.1
11	3 AC 400/500	E82EV113K4C200	E82ZZ11334B200 E82ZZ11334B210	SD LD	13.1 13.1	337 x 125 x 60 337 x 125 x 60	2.1 2.1

Mains filter

A mains filter is a mains choke and RFI filter combination in a housing. It is used to comply with category C1 (with 10m of shielded motor cable) and C2 (with 50m of shielded motor cable) according to EN 61800-3.

- Important: Only use the mains filter in combination with E82EV□□□K4B2□1 type 8200 vectors! The 8200 vector frequency inverter is also available with a fully fitted mains filter (types: E82EV□□□K4B3□□).
- The filters are designed as footprint filters.
- Built-on mains filters are also available (category C1 with 50 m of shielded motor cable)
- When mounting the inverter in cold plate technology, only built-on mains filters can be used for interference suppression.
- The motor cable lengths stated are maximum values and depend on the inverter type and switching frequency.
- The following assignment applies to operation with rated power.

Furthermore, a mains filter achieves the efficiency of a mains choke which also reduces the r.m.s. value of the mains current. Mains filters are available in a power range of 15 ... 90 kW.

Motor power	Mains voltage	Product key		Mains filter data		
(asynchronous motor, 4-pole)		Inverter	Mains filter	Rated current	Dimensions	Mass
P_N [kW]	U_{Netz} [V]			I_N [A]	H x B x T [mm]	m [kg]
15	3 AC 400/500	E82EV153K4B201	E82ZN22334B230	42	410 x 236 x 110	13
22		E82EV223K4B201				
30		E82EV303K4B201	E82ZN30334B230	55		19
45		E82EV453K4B201	E82ZN45334B230	80	580 x 318 x 114	26
55		E82EV553K4B201	E82ZN55334B230	100	685 x 318 x 114	29
75		E82EV753K4B201	E82ZN75334B230	135	760 x 428 x 114	53
90		E82EV903K4B201	E82ZN90334B230	165	765 x 428 x 114	90

→ Data sheet on mains filters
DS_ZB_EZN_0001
Available for download at www.lenze.de/dsc

→ Data sheet for mains filter for operating with increased rated power
DS_ZB_EZN_0003
Available for download at www.lenze.de/dsc

→ Assignment of built-on mains filter
DS_ZB_EZN_0002
Available for download at www.lenze.de/dsc

Motor filter

You use motor filters to reduce the load on the motor winding and to reduce capacitive charge/discharge currents with long motor cables. Motor filters ensure reliable drive operations with up to 100 m of shielded or 200 m of unshielded motor cable.

- Motor filters combined with a "Long Distance" RFI filter allow category C1 to be observed with a motor cable of up to 100 m and category C2 with a motor cable of up to 200 m in the 0.25 to 11 kW power range.
- The voltage drop on the motor filter with rated current and a frequency of 50 Hz is typically around 3% of the max. output voltage of the inverter.
- Observe the operating conditions of the motor filter.

Motor filter

A motor filter is needed:

- as of 50 m of shielded or 100 m of unshielded motor cable (regardless of observance of EMC requirements)
- When using motors whose insulation systems are not suitable for inverter operation.

Motor power	Mains voltage	Product key		Motor filter data		
(asynchronous motor, 4-pole)		Inverter	Motor filter	Rated current	Dimensions	Mass
P_N [kW]	U_{Netz} [V]			I_N [A]	H x B x T	
0.25	1 AC 230/240	E82EV251K2C	E82ZM22232B	1.7	220 x 60 x 140	3.6
0.37		E82EV371K2C		2.4		
0.55	1 AC 230/240	E82EV551K2C		3		
0.75		E82EV751K2C		4		
1.5	3 AC 230/240	E82EV152K2C		7		
2.2		E82EV222K2C		9.5		
3	3 AC 230/240	E82EV302K2C	E82ZM75234B	12	300 x 127 x 150	5.4
4		E82EV402K2C		16.5		
5.5		E82EV552K2C	E82ZM11334B	22.5	295 x 161 x 240	9.5
7.5		E82EV752K2C		28.6		
0.55	3 AC 400/500	E82EV551K4C	E82ZM75134B	1.8	200 x 67 x 130	2.2
0.75		E82EV751K4C		2.4		
1.5		E82EV152K4C	E82ZM22234B020	3.9		2.3
2.2		E82EV222K4C		5.6		
3		E82EV302K4C	E82ZM40234B	7.3	270 x 106 x 150	3.6
4		E82EV402K4C		9.5		
5.5		E82EV552K4C	E82ZM75234B	13	300 x 127 x 150	5.4
7.5		E82EV752K4C		16.5		
11		E82EV113K4C	E82ZM11334B	23.5	295 x 161 x 240	9.5
15		E82EV153K4B	ELM3-004H055	32	500 x 235 x 185	40
22		E82EV223K4B		47		

→ Data sheet on motor filters
DS_ ZB_M_0001
Available for download at www.lenze.de/dsc

→ Data sheet for motor filters for operating with increased rated power
DS_ZB_ELM_0002
Available for download at www.lenze.de/dsc