

Synchronous motors

1FK7 Compact motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque ¹⁾	Rated current	1FK7 Compact synchronous motor Natural cooling	Number of pole pairs	Rotor moment of inertia (without brake)	Weight (without brake)
n_{rated}	SH	P_{rated} at $\Delta T=100$ K	M_0 at $\Delta T=100$ K	M_{rated} at $\Delta T=100$ K	I_{rated} at $\Delta T=100$ K	Order No.	J	m	
rpm		kW (HP)	Nm (lb _r -ft)	Nm (lb _r -ft)	A		10^{-4} kgm ² (10^{-3} lb _r -in-s ²)	kg (lb)	
2000	100	4.29 (5.75)	27.0 (19.9)	20.5 (15.1)	9.6	1FK7101-5AC71-1 ■ ■ ■	4	79.9 (70.7)	21.0 (46.3)
		5.23 (7.01)	36.0 (26.6)	25.0 (18.4)	11.5	1FK7103-5AC71-1 ■ ■ ■	4	105.0 (92.9)	29.0 (63.9)
		7.75 (10.4)	48.0 (35.4)	37.0 (27.3)	16.0	1FK7105-5AC71-1 ■ ■ ■	4	156.0 (138)	39.0 (86.2)
3000	48	0.82 (1.1)	3.0 (2.2)	2.6 (1.9)	1.95	1FK7042-5AF71-1 ■ ■ ■	4	3.01 (2.66)	4.9 (10.8)
		1.48 (2.0)	6.0 (4.4)	4.7 (3.5)	3.7	1FK7060-5AF71-1 ■ ■ ■	4	7.95 (7.04)	7.0 (15.4)
	63	2.29 (3.1)	11.0 (8.2)	7.3 (5.4)	5.6	1FK7063-5AF71-1 ■ ■ ■	4	15.1 (13.3)	11.5 (25.4)
		2.14 (2.9)	8.0 (5.9)	6.8 (5.0)	4.4	1FK7080-5AF71-1 ■ ■ ■	4	15.0 (13.2)	10.0 (22.1)
	80	3.3 (4.4)	16.0 (11.8)	10.5 (7.7)	7.4	1FK7083-5AF71-1 ■ ■ ■	4	27.3 (24.1)	14.0 (30.9)
		3.77 (5.1)	18.0 (13.3)	12.0 (8.8)	8.0	1FK7100-5AF71-1 ■ ■ ■	4	55.3 (48.9)	19.0 (41.9)
	100	4.87 (6.5)	27.0 (19.9)	15.5 (11.4)	11.8	1FK7101-5AF71-1 ■ ■ ■	4	79.9 (70.7)	21.0 (46.3)
		5.37 (7.2) ²⁾	36.0 (26.6)	20.5 (15.1) ²⁾	16.5 ²⁾	1FK7103-5AF71-1 ■ ■ ■	4	105.0 (92.9)	29.0 (63.9)
		8.17 (11.0)	48.0 (35.4)	26.0 (19.2)	18.0	1FK7105-5AF71-1 ■ ■ ■	4	156.0 (138)	39.0 (86.2)
		1.74 (2.3)	6.0 (4.4)	3.7 (2.7)	4.1	1FK7060-5AH71-1 ■ ■ ■	4	7.95 (7.04)	7.0 (15.4)
4500	63	2.09 (2.8) ³⁾	11.0 (8.2)	5.0 (3.7) ³⁾	6.1 ³⁾	1FK7063-5AH71-1 ■ ■ ■	4	15.1 (13.3)	11.5 (25.4)
		2.39 (3.2) ³⁾	8.0 (5.9)	5.7 (4.2) ³⁾	5.6 ³⁾	1FK7080-5AH71-1 ■ ■ ■	4	15.0 (13.2)	10.0 (22.1)
	80	3.04 (4.1) ⁴⁾	16.0 (11.8)	8.3 (6.1) ⁴⁾	9.0 ⁴⁾	1FK7083-5AH71-1 ■ ■ ■	4	27.3 (24.1)	14.0 (30.9)
6000	20	0.05 (0.1)	0.18 (0.1)	0.08 (0.1)	0.85	1FK7011-5AK71-1 ■ ■ ■ 3	4	0.064 (0.06)	0.9 (2.0)
		0.10 (0.1)	0.35 (0.3)	0.16 (0.1)	0.85	1FK7015-5AK71-1 ■ ■ ■ 3	4	0.083 (0.08)	1.1 (2.4)
	28	0.43 (0.6)	0.85 (0.6)	0.6 (0.4)	1.4	1FK7022-5AK71-1 ■ ■ ■	3	0.28 (0.25)	1.8 (4.0)
		0.50 (0.7)	1.1 (0.8)	0.8 (0.6)	1.3	1FK7032-5AK71-1 ■ ■ ■	3	0.61 (0.54)	2.7 (6.0)
	36	0.63 (0.8)	1.6 (1.2)	1.0 (0.7)	1.3	1FK7034-5AK71-1 ■ ■ ■	3	0.9 (0.80)	3.7 (8.2)
		0.69 (0.9)	1.6 (1.2)	1.1 (0.8)	1.7	1FK7040-5AK71-1 ■ ■ ■	4	1.69 (1.50)	3.5 (7.7)
	48	1.02 (1.4) ⁵⁾	3.0 (2.2)	1.95 (1.4) ⁵⁾	3.1 ⁵⁾	1FK7042-5AK71-1 ■ ■ ■	4	3.01 (2.66)	4.9 (10.8)

Encoder systems for motors without DRIVE-CLiQ-interface: Incremental encoder sin/cos 1 V_{pp} 2048 S/R
 Absolute encoder EnDat 2048 S/R¹⁾ (not for 1FK701 to 1FK703)
 Absolute encoder EnDat 512 S/R¹⁾ (only for 1FK702 to 1FK703)
 Absolute encoder EnDat 32 S/R¹⁾ (not for 1FK701 to 1FK703)
 Absolute encoder EnDat 16 S/R¹⁾ (only for 1FK701 to 1FK703)
 Multi-pole resolver
 2-pole resolver

Encoder systems for motors with DRIVE-CLiQ-interface⁶⁾: 22 bit incremental encoder (not for 1FK701)
 22 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (not for 1FK701 bis 1FK703)
 20 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (only for 1FK702/1FK703)
 16 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (not for 1FK701 bis 1FK703)
 15 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (only for 1FK702/1FK703)
 15 bit resolver (not for 1FK701)
 14 bit resolver (not for 1FK701)

Shaft extension: Fitted key and keyway
 Fitted key and keyway
 Plain shaft
 Plain shaft

Shaft and flange accuracy: Tolerance N
 Tolerance N
 Tolerance N
 Tolerance N

Holding brake: without
 with
 without
 with

Degree of protection: IP64 (not for 1FK701)
 IP65 and DE flange IP67 (not for 1FK701)
 IP64 (IP54 for 1FK701) and anthracite paint finish
 IP65 and DE flange IP67, anthracite paint finish (not for 1FK701)

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Selection and ordering data

Motor type (continued)	Static current I_0 at M_0 $\Delta T=100\text{ K}$ A	SINAMICS S110 Power Module		Power cable with complete shield		
		Rated output current ⁷⁾ I_{rated} A	Blocksize format Order No.	Motor connection (and brake connection) via power connector	Power connector Size	Cable cross- section ⁸⁾ mm ²
1FK7101-5AC71...	12.3	18.0	6SL3210-1SE21-8■A0	1.5	4 x 1.5	6FX5002-5■G21-....
1FK7103-5AC71...	14.7	18.0	6SL3210-1SE21-8■A0	1.5	4 x 1.5	6FX5002-5■G21-....
1FK7105-5AC71...	20.0	25.0	6SL3210-1SE22-5■A0	1.5	4 x 2.5	6FX5002-5■G31-....
1FK7042-5AF71...	2.2	2.2	6SL3210-1SE12-2UA0	1	4 x 1.5	6FX5002-5■G01-....
1FK7060-5AF71...	4.5	5.9	6SL3210-1SE16-0■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7063-5AF71...	8.0	10.2	6SL3210-1SE21-0■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7080-5AF71...	4.8	5.9	6SL3210-1SE16-0■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7083-5AF71...	10.4	18.0	6SL3210-1SE21-8■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7100-5AF71...	11.2	18.0	6SL3210-1SE21-8■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7101-5AF71...	19.0	25.0	6SL3210-1SE22-5■A0	1.5	4 x 2.5	6FX5002-5■G31-....
1FK7103-5AF71...	27.5	32.0	6SL3210-1SE23-2■A0	1.5	4 x 4	6FX5002-5■G41-....
1FK7105-5AF71...	31.0	32.0	6SL3210-1SE23-2■A0	1.5	4 x 10	6FX5002-5■G61-....
1FK7060-5AH71...	6.2	7.7	6SL3210-1SE17-7■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7063-5AH71...	12.0	18.0	6SL3210-1SE21-8■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7080-5AH71...	7.4	7.7	6SL3210-1SE17-7■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7083-5AH71...	15.0	18.0	6SL3210-1SE21-8■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7011-5AK71...	1.5	1.7	6SL3210-1SE11-7UA0	0.5	4 x 1.5	6FX5002-5DA30-....
1FK7015-5AK71...	1.5	1.7	6SL3210-1SE11-7UA0	0.5	4 x 1.5	6FX5002-5DA30-....
1FK7022-5AK71...	1.8	2.2	6SL3210-1SE12-2UA0	1	4 x 1.5	6FX5002-5■G01-....
1FK7032-5AK71...	1.7	1.7	6SL3210-1SE11-7UA0	1	4 x 1.5	6FX5002-5■G01-....
1FK7034-5AK71...	1.9	2.2	6SL3210-1SE12-2UA0	1	4 x 1.5	6FX5002-5■G01-....
1FK7040-5AK71...	2.25	3.1	6SL3210-1SE13-1UA0	1	4 x 1.5	6FX5002-5■G01-....
1FK7042-5AK71...	4.4	5.9	6SL3210-1SE16-0■A0	1	4 x 1.5	6FX5002-5■G01-....

Line filter:
without line filter **U**
with integrated line filter **A**

Without brake cores **C**
With brake cores **D**

For length code as well as power and signal cables, see MOTION-CONNECT connection system.

¹⁾ If the absolute encoder is used, M_{rated} is reduced by 10 %.

²⁾ These values refer to $n = 2500$ rpm.

³⁾ These values refer to $n = 4000$ rpm.

⁴⁾ These values refer to $n = 3500$ rpm.

⁵⁾ These values refer to $n = 5000$ rpm.

⁶⁾ Motors with shaft height 20 are not available with a DRIVE-CLIQ interface. The encoder systems are connected via the SMC (Sensor Module Cabinet-Mounted).

⁷⁾ With default setting of the pulse frequency.

⁸⁾ The current carrying capacity of the power cables complies with EN 60204-1 for installation type C, for continuous duty at an ambient air temperature of 40 °C (104 °F).

Synchronous motors

1FK7 High Dynamic motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque ¹⁾	Rated current	1FK7 High Dynamic synchronous motor Natural cooling	Number of pole pairs	Rotor moment of inertia (without brake)	Weight (without brake)
n_{rated}	SH	P_{rated} at $\Delta T=100$ K	M_0 at $\Delta T=100$ K	M_{rated} at $\Delta T=100$ K	I_{rated} at $\Delta T=100$ K	Order No.		J	m
rpm		kW (HP)	Nm (lb _r -ft)	Nm (lb _r -ft)	A			10^{-4} kgm ² (10^{-3} lb _r -in-s ²)	kg (lb)
3000	48	1.1 (1.48)	4.0 (2.9)	3.5 (2.6)	4	1FK7044-7AF71-1 ■ ■ ■	3	1.28 (1.13)	7.7 (17)
	63	1.7 (2.28)	6.4 (4.7)	5.4 (4.0)	5.3	1FK7061-7AF71-1 ■ ■ ■	3	3.4 (3.01)	10.0 (22.1)
		2.51 (3.37)	12.0 (8.8)	8.0 (5.9)	7.5	1FK7064-7AF71-1 ■ ■ ■	3	6.5 (5.75)	15.5 (34.2)
	80	3.14 (4.21) ²⁾	22.0 (16.2)	12.0 (8.8) ²⁾	12.5 ²⁾	1FK7085-7AF71-1 ■ ■ ■	4	23.0 (20.3)	23.5 (51.8)
3.77 (5.06) ³⁾		28.0 (20.6)	18.0 (13.3) ³⁾	14.5 ³⁾	1FK7086-7AF71-1 ■ ■ ■	4	23.0 (20.3)	23.5 (51.8)	
4500	48	1.23 (1.65)	3.1 (2.3)	2.6 (1.9)	4	1FK7043-7AH71-1 ■ ■ ■	3	1.0 (0.89)	6.3 (13.9)
		1.41 (1.89)	4.0 (2.9)	3.0 (2.2)	4.9	1FK7044-7AH71-1 ■ ■ ■	3	1.28 (1.13)	7.7 (17)
	63	2.03 (2.72)	6.4 (4.7)	4.3 (3.2)	5.9	1FK7061-7AH71-1 ■ ■ ■	3	3.4 (3.01)	10.0 (22.1)
		2.36 (3.16)	12.0 (8.8)	5.0 (3.7)	7	1FK7064-7AH71-1 ■ ■ ■	3	6.5 (5.75)	15.5 (34.2)
6000	36	0.57 (0.76)	1.3 (1.0)	0.9 (0.7)	1.5	1FK7033-7AK71-1 ■ ■ ■	3	0.27 (0.24)	3.1 (6.8)
	48	1.26 (1.69)	3.1 (2.3)	2.0 (1.5)	4.4	1FK7043-7AK71-1 ■ ■ ■	3	1.0 (0.89)	6.3 (13.9)

Encoder systems for motors without DRIVE-CLiQ-interface:

Incremental encoder sin/cos 1 V_{pp} 2048 S/R
 Absolute encoder EnDat 2048 S/R¹⁾ (not for 1FK703)
 Absolute encoder EnDat 512 S/R¹⁾ (only for 1FK703)
 Absolute encoder EnDat 32 S/R¹⁾ (not for 1FK703)
 Absolute encoder EnDat 16 S/R¹⁾ (only for 1FK703)
 Multi-pole resolver
 2-pole resolver

A
E
H
G
J
S
T

Encoder systems for motors with DRIVE-CLiQ-interface:

22 bit incremental encoder
 22 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (not for 1FK703)
 20 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (only for 1FK703)
 16 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (not for 1FK703)
 15 bit absolute encoder, single-turn + 12 bit multi-turn¹⁾ (only for 1FK703)
 15 bit resolver
 14 bit resolver

D
F
L
K
V
U
P

Shaft extension:

Fitted key and keyway
 Fitted key and keyway
 Plain shaft
 Plain shaft

Shaft and flange accuracy:

Tolerance N
 Tolerance N
 Tolerance N
 Tolerance N

Holding brake:

without
 with
 without
 with

A
B
G
H

Degree of protection:

IP64
 IP65 and DE flange IP67
 IP64 and anthracite paint finish
 IP64 and DE flange IP67, anthracite paint finish

0
2
3
5

Selection and ordering data

Motor type (continued)	Static current I_0 at M_0 $\Delta T=100\text{ K}$ A	SINAMICS S110 Power Module		Power cable with complete shield		
		Rated output current ⁴⁾ I_{rated} A	Blocksize format Order No.	Motor connection (and brake connection) via power connector		
				Power connector	Cable cross- section ⁵⁾ mm ²	Pre-assembled cable MOTION-CONNECT 500 Order No.
				Size		
1FK7044-7AF71...	4.5	5.9	6SL3210-1SE16-0■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7061-7AF71...	6.1	7.7	6SL3210-1SE17-7■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7064-7AF71...	11.0	18.0	6SL3210-1SE21-8■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7085-7AF71...	22.5	25.0	6SL3210-1SE22-5■A0	1.5	4 x 4	6FX5002-5■G41-....
1FK7086-7AF71...	21.0	25.0	6SL3210-1SE22-5■A0	1.5	4 x 4	6FX5002-5■G41-....
1FK7043-7AH71...	4.5	5.9	6SL3210-1SE16-0■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7044-7AH71...	6.3	7.7	6SL3210-1SE17-7■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7061-7AH71...	8.0	10.2	6SL3210-1SE21-0■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7064-7AH71...	15.0	18.0	6SL3210-1SE21-8■A0	1	4 x 1.5	6FX5002-5■G01-....
1FK7033-7AK71...	2.2	3.1	6SL3210-1SE13-1UA0	1	4 x 1.5	6FX5002-5■G01-....
1FK7043-7AK71...	6.4	7.7	6SL3210-1SE17-7■A0	1	4 x 1.5	6FX5002-5■G01-....
Line filter:						
without line filter				U		
with integrated line filter				A		
Without brake cores						C
With brake cores						D
For length code as well as power and signal cables, see MOTION-CONNECT connection system.					

¹⁾ If the absolute encoder is used, M_{rated} is reduced by 10 %.

²⁾ These values refer to $n = 2500$ rpm.

³⁾ These values refer to $n = 2000$ rpm.

⁴⁾ With default setting of the pulse frequency.

⁵⁾ The current carrying capacity of the power cables complies with EN 60204-1 for installation type C, for continuous duty at an ambient air temperature of 40 °C (104 °F).

Synchronous motors

1FK7 Compact/High Dynamic motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	1FK7 Compact/High Dynamic synchronous motor Natural cooling Connection to SINAMICS 230 V 1 AC	Number of pole pairs	Rotor moment of inertia (without brake)	Weight (without brake)
n_{rated}	SH	P_{rated} at $\Delta T=100\text{ K}$	M_0 at $\Delta T=100\text{ K}$	M_{rated} at $\Delta T=100\text{ K}$	I_{rated} at $\Delta T=100\text{ K}$			J	m
rpm		kW (HP)	Nm (lb _r -ft)	Nm (lb _r -ft)	A	Order No.		10^{-4} kgm^2 ($10^{-3}\text{ lb}_r\text{-in-s}^2$)	kg (lb)
3000	36	0.31 (0.42)	1.15 (0.8)	1.0 (0.7)	1.6	1FK7032-5AF21-1 ■ ■ ■	3	0.61 (0.54)	2.7 (5.9)
		0.38 (0.51)	1.3 (1.0)	1.2 (0.9)	2.0	1FK7033-7AF21-1 ■ ■ ■	3	0.27 (0.24)	3.1 (6.8)
		0.46 (0.62)	1.6 (1.2)	1.45 (1.1)	1.8	1FK7034-5AF21-1 ■ ■ ■	3	0.9 (0.8)	3.7 (8.2)
	48	0.82 (1.1)	3.0 (2.2)	2.6 (1.9)	3.5	1FK7042-5AF21-1 ■ ■ ■	4	3.01 (2.66)	4.9 (10.8)
		0.79 (1.06)	2.7 (2.0)	2.5 (1.8)	3.8	1FK7043-7AF21-1 ■ ■ ■	3	1.0 (0.89)	6.3 (13.9)
	6000	20	0.05 (0.1)	0.18 (0.1)	0.08 (0.1)	0.5	1FK7011-5AK21-1 ■ ■ ■ 3	4	0.064 (0.06)
0.10 (0.1)			0.35 (0.3)	0.16 (0.1)	0.5	1FK7015-5AK21-1 ■ ■ ■ 3	4	0.083 (0.08)	1.1 (2.4)
28		0.38 (0.51)	0.85 (0.6)	0.6 (0.4)	1.4	1FK7022-5AK21-1 ■ ■ ■	3	0.28 (0.25)	1.8 (4.0)

Synchronous motor:	1FK7 Compact 1FK7 High Dynamic	5 7		
Encoder systems for motors without DRIVE-CLiQ-interface:	Incremental encoder sin/cos 1 V _{pp} 2048 S/R Absolute encoder EnDat 2048 S/R ¹⁾ (only for 1FK704) Absolute encoder EnDat 512 S/R ¹⁾ (not for 1FK704) Absolute encoder EnDat 32 S/R ¹⁾ (only for 1FK704) Absolute encoder EnDat 16 S/R ¹⁾ (not for 1FK704) Multi-pole resolver 2-pole resolver		A E H G J S T	
Encoder systems for motors with DRIVE-CLiQ-interface: 2)	22 bit incremental encoder (not for 1FK701) 22 bit absolute encoder, single-turn + 12 bit multi-turn ¹⁾ (only for 1FK704) 20 bit absolute encoder, single-turn + 12 bit multi-turn ¹⁾ (only for 1FK702/1FK703) 16 bit absolute encoder, single-turn + 12 bit multi-turn ¹⁾ (only for 1FK704) 15 bit absolute encoder, single-turn + 12 bit multi-turn ¹⁾ (only for 1FK702/1FK703) 15 bit resolver (not for 1FK701) 14 bit resolver (not for 1FK701)		D F L K V U P	
Shaft extension:	Shaft and flange accuracy:	Holding brake:		
Fitted key and keyway	Tolerance N	without		A
Fitted key and keyway	Tolerance N	with		B
Plain shaft	Tolerance N	without		G
Plain shaft	Tolerance N	with		H
Degree of protection:	IP64 (not for 1FK701) IP65 and DE flange IP67 (not for 1FK701) IP64 (IP54 for 1FK701) and anthracite paint finish IP65 and DE flange IP67, anthracite paint finish (not for 1FK701)			0 2 3 5

Selection and ordering data

Motor type (continued)	Static current I_0 at M_0 $\Delta T=100$ K A	SINAMICS S110 Power Module		Power cable with complete shield		
		Rated output current ³⁾ I_{rated} at M_0 $\Delta T=100$ K A	Blocksize format Order No.	Motor connection (and brake connection) via power connector		
				Power connector	Cable cross- section ⁴⁾ mm ²	Pre-assembled cable MOTION-CONNECT 500 Order No.
				Size		
1FK7032-5AF21...	1.7	2.3	6SL3210-1SB12-3■A3	1	4 x 1.5	6FX5002-5■G01-....
1FK7033-7AF21...	2.2	2.3	6SL3210-1SB12-3■A3	1	4 x 1.5	6FX5002-5■G01-....
1FK7034-5AF21...	1.9	2.3	6SL3210-1SB12-3■A3	1	4 x 1.5	6FX5002-5■G01-....
1FK7042-5AF21...	3.9	3.9	6SL3210-1SB14-0■A3	1	4 x 1.5	6FX5002-5■G01-....
1FK7043-7AF21...	3.9	3.9	6SL3210-1SB14-0■A3	1	4 x 1.5	6FX5002-5■G01-....
1FK7011-5AK21...	0.85	0.9	6SL3210-1SB11-0■A3	0.5	4 x 1.5	6FX5002-5DA30-....⁵⁾
1FK7015-5AK21...	0.85	0.9	6SL3210-1SB11-0■A3	0.5	4 x 1.5	6FX5002-5DA30-....⁵⁾
1FK7022-5AK21...	1.8	2.3	6SL3210-1SB12-3■A3	1	4 x 1.5	6FX5002-5■G01-....
Line filter:						
without line filter				U		
with integrated line filter				A		
Without brake cores						C
With brake cores						D
For length code as well as power and signal cables, see MOTION-CONNECT connection system.					

¹⁾ If the absolute encoder is used, M_{rated} is reduced by 10 %.

²⁾ Motors of shaft height 20 are not available with a DRIVE-CLiQ interface. The encoder systems are connected via the SMC (Sensor Module Cabinet-Mounted).

³⁾ With default setting of the pulse frequency.

⁴⁾ The current carrying capacity of the power cables complies with EN 60204-1 for installation type C, for continuous duty at an ambient air temperature of 40 °C (104 °F).

⁵⁾ This power cable is fitted with a connector with M17 thread at the motor end and brake cores as standard (4 x 1.5 mm² + 2 x 1.5 mm²).