

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 Compact synchronous motors	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	J	m
rpm		kW (HP)	Nm (lb _f -ft)	Nm (lb _f -ft)	A	Order No.		10 ⁻⁴ kgm ² (10 ⁻³ lb _f -in-s ²)	kg (lb)
1FK7 Compact for DC link voltage 510 ... 720 V DC – Natural cooling									
2000	48	0.6 (0.80)	3.0 (2.21)	2.8 (2.07)	1.55	1FK7042-2AC71-1■ ■ ■ ■	4	2.9 (2.57)	4.6 (10.1)
	63	1.1 (1.48)	6.0 (4.43)	5.3 (3.91)	2.95	1FK7060-2AC71-1■ ■ ■ ■	4	7.7 (6.82)	7.1 (15.7)
		1.5 (2.01)	8.5 (6.27)	7.0 (5.16)	2.65	1FK7062-2AC71-1■ ■ ■ ■	4	11.2 (9.91)	9.1 (20.1)
		1.9 (2.55)	11.0 (8.11)	8.9 (6.56)	4.4	1FK7063-2AC71-1■ ■ ■ ■	4	14.7 (13.0)	11.1 (24.5)
		80	2.1 (2.82)	12.0 (8.85)	10.0 (7.38)	4.4	1FK7081-2AC71-1■ ■ ■ ■	4	20 (17.7)
	100	2.6 (3.49)	16.0 (11.8)	12.5 (9.22)	6.3	1FK7083-2AC71-1■ ■ ■ ■	4	26 (23.0)	15.6 (34.4)
		3.1 (4.16)	20.0 (14.8)	15.0 (11.1)	6.7	1FK7084-2AC71-1■ ■ ■ ■	4	32.5 (28.8)	18.3 (40.3)
		3.0 (4.02)	18.0 (13.3)	14.5 (10.7)	7.1	1FK7100-2AC71-1■ ■ ■ ■	4	54 (47.8)	17.6 (38.8)
		4.3 (5.77)	27.0 (19.9)	20.5 (15.1)	9.7	1FK7101-2AC71-1■ ■ ■ ■	4	79 (69.9)	23.0 (50.7)
	5.2 (6.97)	36.0 (26.6)	25.0 (18.4)	11.0	1FK7103-2AC71-1■ ■ ■ ■	4	104 (92.0)	28.5 (62.8)	
	7.7 (10.3)	48.0 (35.4)	37.0 (27.3)	16.0	1FK7105-2AC71-1■ ■ ■ ■	4	154 (136)	39.0 (86.0)	
	3000	48	0.8 (1.07)	3.0 (2.21)	2.6 (1.92)	2.0	1FK7042-2AF71-1■ ■ ■ ■	4	2.9 (2.57)
63		1.5 (2.01)	6.0 (4.43)	4.7 (3.47)	3.7	1FK7060-2AF71-1■ ■ ■ ■	4	7.7 (6.82)	7.1 (15.7)
		1.9 (2.55)	8.5 (6.27)	6.0 (4.43)	4.0	1FK7062-2AF71-1■ ■ ■ ■	4	11.2 (9.91)	9.1 (20.1)
		2.3 (3.08)	11.0 (8.11)	7.3 (5.38)	5.6	1FK7063-2AF71-1■ ■ ■ ■	4	14.7 (13.0)	11.1 (24.5)
		80	2.1 (2.82)	8.0 (5.90)	6.8 (5.02)	4.4	1FK7080-2AF71-1■ ■ ■ ■	4	14.2 (12.6)
100		2.7 (3.62)	12.0 (8.85)	8.7 (6.42)	6.8	1FK7081-2AF71-1■ ■ ■ ■	4	20 (17.7)	12.9 (28.4)
		3.3 (4.43)	16.0 (11.8)	10.5 (7.74)	7.2	1FK7083-2AF71-1■ ■ ■ ■	4	26 (23.0)	15.6 (34.4)
		3.1 (4.16)	20.0 (14.8)	10.0 (7.38)	6.5	1FK7084-2AF71-1■ ■ ■ ■	4	32.5 (28.8)	18.3 (40.3)
		3.8 (5.10)	18.0 (13.3)	12.0 (8.85)	8.0	1FK7100-2AF71-1■ ■ ■ ■	4	54 (47.8)	17.6 (38.8)
4.9 (6.57)		27.0 (19.9)	15.5 (11.4)	11.6	1FK7101-2AF71-1■ ■ ■ ■	4	79 (69.9)	23.0 (50.7)	
4.4 (5.90)		36.0 (26.6)	14.0 (10.3)	11.5	1FK7103-2AF71-1■ ■ ■ ■	4	104 (92.0)	28.5 (62.8)	
8.2 (11.0)		48.0 (35.4)	26.0 (19.2)	18.0	1FK7105-2AF71-1■ ■ ■ ■	4	154 (136)	39.0 (86.0)	
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM2048S/R encoder Multi-pole resolver 2-pole resolver			A E S T			
Encoder systems for motors with DRIVE-CLiQ interface:			AS24DQI encoder AM24DQI encoder AS20DQI encoder AM20DQI encoder R15DQ resolver R14DQ resolver			B C Q R U P			
Shaft extension: Feather key Feather key 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 IP65 and DE flange IP67			0 1 2			

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors
Natural cooling

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power P_{calc} ⁵⁾	SINAMICS S120 Motor Module		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾	Booksize format For additional versions and components see SINAMICS S120 drive system	Power connector	Cable cross-section ³⁾	Pre-assembled cable
	%	A	kW (HP)	A	Order No.	Size	mm ²	Order No.
Line voltage 380 ... 480 V 3 AC								
1FK7042-2AC71-...	88	1.6	0.6 (0.80)	3	6SL312-1-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7060-2AC71-...	90	3.15	1.3 (1.74)	3 ⁴⁾	6SL312-1-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7062-2AC71-...	91	3.0	1.8 (2.41)	3	6SL312-1-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7063-2AC71-...	91	5.3	2.3 (3.08)	5 ⁴⁾	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7081-2AC71-...	93	5.0	2.5 (3.35)	5	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7083-2AC71-...	93	7.5	3.4 (4.56)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7084-2AC71-...	93	8.5	4.2 (5.63)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7100-2AC71-...	92	8.4	3.8 (5.10)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7101-2AC71-...	93	12.3	5.7 (7.64)	18	6SL312-1-TE21-8AA3	1.5	4 × 1.5	6FX002-5N21-....
1FK7103-2AC71-...	93	14.4	7.5 (10.1)	18	6SL312-1-TE21-8AA3	1.5	4 × 1.5	6FX002-5N21-....
1FK7105-2AC71-...	93	20.0	10.1 (13.5)	30	6SL312-1-TE23-0AA3	1.5	4 × 2.5	6FX002-5N31-....
1FK7042-2AF71-...	89	2.2	0.9 (1.21)	3	6SL312-1-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7060-2AF71-...	90	4.45	1.9 (2.55)	5	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7062-2AF71-...	91	5.3	2.7 (3.62)	5 ⁴⁾	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7063-2AF71-...	91	8.0	3.5 (4.69)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7080-2AF71-...	92	4.9	2.5 (3.35)	5	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7081-2AF71-...	93	8.7	3.8 (5.10)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7083-2AF71-...	93	10.1	5 (6.71)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7084-2AF71-...	93	12.1	6.3 (8.45)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7100-2AF71-...	92	11.1	5.7 (7.64)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7101-2AF71-...	93	18.8	8.5 (11.4)	18 ⁴⁾	6SL312-1-TE21-8AA3	1.5	4 × 2.5	6FX002-5N31-....
1FK7103-2AF71-...	93	26.0	11.3 (15.2)	30	6SL312-1-TE23-0AA3	1.5	4 × 4	6FX002-5N41-....
1FK7105-2AF71-...	94	31.0	15.1 (20.2)	30 ⁴⁾	6SL312-1-TE23-0AA3	1.5	4 × 6	6FX002-5N51-....

Cooling:
Internal air cooling 0
External air cooling 1

Motor Module:
Single Motor Module 1
Double Motor Module 2

Power cable:
MOTION-CONNECT 800 PLUS 8
MOTION-CONNECT 500 5

Without brake cores C
With brake cores D

Length code

Information about the cables
can be found under
MOTION-CONNECT connection systems

¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ With the specified Motor Module, the motor cannot be fully utilized with M_0 at $\Delta T = 100$ K winding temperature rise. If a Motor Module with a higher rating is used, you must check whether the specified power cable can be connected to it.

⁵⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 Compact synchronous motors	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	J	m
rpm		kW (HP)	Nm (lb _F -ft)	Nm (lb _F -ft)	A	Order No.		10 ⁻⁴ kgm ² (10 ⁻³ lb _F -in-s ²)	kg (lb)
1FK7 Compact for DC link voltage 510 ... 720 V DC – Natural cooling									
4500	63	1.7 (2.28)	6.0 (4.43)	3.7 (2.73)	4.3	1FK7060-2AH71-1 ■ ■ ■	4	7.7 (6.82)	7.1 (15.7)
		1.4 (1.88)	8.5 (6.27)	3.0 (2.21)	3.3	1FK7062-2AH71-1 ■ ■ ■	4	11.2 (9.91)	9.1 (20.1)
		1.4 (1.88)	11.0 (8.11)	3.0 (2.21)	3.8	1FK7063-2AH71-1 ■ ■ ■	4	14.7 (13.0)	11.1 (24.5)
	80	2.1 (2.82)	8.0 (5.9)	4.5 (3.32)	4.8	1FK7080-2AH71-1 ■ ■ ■	4	14.2 (12.6)	10.3 (22.7)
		1.8 (2.41)	12.0 (8.85)	3.8 (2.8)	4.9	1FK7081-2AH71-1 ■ ■ ■	4	20 (17.7)	12.9 (28.4)
		1.4 (1.88)	16.0 (11.8)	3.0 (2.21)	3.6	1FK7083-2AH71-1 ■ ■ ■	4	26 (23.0)	15.6 (34.4)
6000	36	0.5 (0.67)	1.15 (0.85)	0.8 (0.59)	1.3	1FK7032-2AK71-1 ■ ■ ■	3	0.65 (0.58)	2.7 (5.95)
		0.6 (0.8)	1.6 (1.18)	1.0 (0.74)	1.3	1FK7034-2AK71-1 ■ ■ ■	3	0.9 (0.8)	3.5 (7.72)
	48	0.7 (0.94)	1.6 (1.18)	1.1 (0.81)	1.85	1FK7040-2AK71-1 ■ ■ ■	4	1.6 (1.42)	3.2 (7.06)
		0.9 (1.21)	3.0 (2.21)	1.5 (1.11)	2.5	1FK7042-2AK71-1 ■ ■ ■	4	2.9 (2.57)	4.6 (10.1)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM2048S/R encoder Multi-pole resolver 2-pole resolver			A E S T			
Encoder systems for motors with DRIVE-CLiQ interface:			AS24DQI encoder AM24DQI encoder AS20DQI encoder AM20DQI encoder R15DQ resolver R14DQ resolver			B C Q R U P			
Shaft extension:			Shaft and flange accuracy:			Holding brake:			
Feather key			Tolerance N			Without		A	
Feather key			Tolerance N			With		B	
Plain shaft			Tolerance N			Without		G	
Plain shaft			Tolerance N			With		H	
Degree of protection:			IP64 IP65 IP65 and DE flange IP67			0 1 2			

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors
Natural cooling

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power P_{calc} ⁴⁾	SINAMICS S120 Motor Module		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾	Booksized format For additional versions and components see SINAMICS S120 drive system	Power connector	Cable cross-section ³⁾	Pre-assembled cable
	%	A	kW (HP)	A	Order No.	Size	mm ²	Order No.
Line voltage 380 ... 480 V 3 AC								
1FK7060-2AH71-...	90	6.3	2.8 (3.75)	9	6SL312-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7062-2AH71-...	91	8.0	4 (5.36)	9	6SL312-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7063-2AH71-...	90	12.0	5.2 (6.97)	18	6SL312-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7080-2AH71-...	92	7.4	3.8 (5.1)	9	6SL312-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7081-2AH71-...	93	13.1	5.7 (7.64)	18	6SL312-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7083-2AH71-...	93	15.0	7.5 (10.1)	18	6SL312-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7032-2AK71-...	88	1.7	0.7 (0.94)	3	6SL312-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7034-2AK71-...	88	1.9	1 (1.34)	3	6SL312-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7040-2AK71-...	88	2.35	1 (1.34)	3	6SL312-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7042-2AK71-...	89	4.4	1.9 (2.55)	5	6SL312-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
Cooling: Internal air cooling 0 External air cooling 1 Motor Module: Single Motor Module 1 Double Motor Module 2					Power cable: MOTION-CONNECT 800 PLUS 8 MOTION-CONNECT 500 5 Without brake cores C With brake cores D Length code			
					Information about the cables can be found under MOTION-CONNECT connection systems			

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¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors SH 20/SH 28 – Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 Compact synchronous motors	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	J	m
rpm		kW (HP)	Nm (lb _f -ft)	Nm (lb _f -ft)	A	Order No.		10 ⁻⁴ kgm ² (10 ⁻³ lb _f -in-s ²)	kg (lb)
1FK7 Compact for DC link voltage 510 ... 720 V DC – Natural cooling									
6000	20	0.05 (0.07)	0.18 (0.13)	0.08 (0.06)	0.85	1FK7011-5AK71-1 ■ ■ ■	4	0.064 (0.057)	0.9 (2.0)
		0.1 (0.13)	0.35 (0.26)	0.16 (0.12)	0.85	1FK7015-5AK71-1 ■ ■ ■	4	0.083 (0.073)	1.1 (2.4)
	28	0.38 (0.51)	0.85 (0.63)	0.6 (0.44)	1.4	1FK7022-5AK71-1 ■ ■ ■	3	0.28 (0.25)	1.8 (4.0)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM512S/R encoder (only for 1FK702) AM16S/R encoder Multi-pole resolver 2-pole resolver			A H J S T			
Encoder systems for motors with DRIVE-CLiQ interface: (only for 1FK702) ¹⁾			IC22DQ encoder AM20DQ encoder AM15DQ encoder R15DQ resolver R14DQ resolver			D L V U P			
Shaft extension: Feather key Feather key 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 (only for 1FK702) IP65 and DE flange IP67 (only for 1FK702) IP54 (only for 1FK701), IP64 (only for 1FK702) IP65 and DE flange IP67 (only for 1FK702)					Paint finish: Without Without With With	0 2 3 5			

¹⁾ 1FK701 motors cannot be equipped with a DRIVE-CLiQ interface. The encoder systems are connected via the SMC (Sensor Module Cabinet-Mounted).

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors
SH 20/SH 28 – Natural cooling

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power P_{calc} ⁴⁾	SINAMICS S120 Motor Module		Power cable with complete shield		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾	Booksized format For additional versions and components see SINAMICS S120 drive system	Motor connection (and brake connection) via power connector		
	%	A	kW (HP)	I_{rated}	Order No.	Power connector	Cable cross- section ³⁾	Pre-assembled cable
				Line voltage 380 ... 480 V 3 AC		Size	mm ²	Order No.
1FK7011-5AK71-...	62	1.5	0.1 (0.13)	3	6SL312-TE13-0AA3	0.5	4 × 1.5	6FX5002-5DN20-....
1FK7015-5AK71-...	68	1.5	0.2 (0.27)	3	6SL312-TE13-0AA3	0.5	4 × 1.5	6FX5002-5DN20-....
1FK7022-5AK71-...	86	1.8	0.5 (0.67)	3	6SL312-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
				Cooling:		Power cable:		
				Internal air cooling		MOTION-CONNECT 800 PLUS		
				External air cooling		MOTION-CONNECT 500		
				Motor Module:		Without brake cores		
				Single Motor Module		With brake cores		
				Double Motor Module		Length code		
						Information about the cables can be found under MOTION-CONNECT connection systems		

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¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 High Dynamic motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 High Dynamic synchronous motors Natural cooling	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	J	m
rpm		kW (HP)	Nm (lb _f -ft)	Nm (lb _f -ft)	A		Order No.	10^{-4} kgm^2 ($10^{-3}\text{ lb}_f\text{-in-s}^2$)	kg (lb)
1FK7 High Dynamic for DC link voltage 510 ... 720 V DC – Natural cooling									
2000	63	2.1 (2.82)	12.0 (8.85)	10.0 (7.38)	7.1	1FK7064-4CC71-1	3	7.5 (6.64)	15.4 (34.0)
	80	3.1 (4.16)	22.0 (16.2)	15.0 (11.1)	10.0	1FK7085-4CC71-1	4	22 (19.47)	23.0 (50.7)
		3.8 (5.10)	28.0 (20.6)	18.0 (13.3)	9.0	1FK7086-4CC71-1	4	22 (19.47)	23.0 (50.7)
3000	48	1.2 (1.61)	4.5 (3.32)	3.7 (2.73)	3.45	1FK7044-4CF71-1	3	1.26 (1.12)	7.4 (16.3)
	63	1.7 (2.28)	6.4 (4.72)	5.4 (3.98)	5.3	1FK7061-4CF71-1	3	4.1 (3.63)	9.5 (20.9)
		2.5 (3.35)	12.0 (8.85)	8.0 (5.9)	7.6	1FK7064-4CF71-1	3	7.5 (6.64)	15.4 (34.0)
	80	2 (2.68)	22.0 (16.2)	6.5 (4.79)	7.0	1FK7085-4CF71-1	4	22 (19.47)	23.0 (50.7)
		2 (2.68)	28.0 (20.6)	6.5 (4.79)	5.7	1FK7086-4CF71-1	4	22 (19.47)	23.0 (50.7)
	4500	48	1.2 (1.61)	3.5 (2.58)	2.6 (1.92)	3.3	1FK7043-4CH71-1	3	1 (0.89)
1.4 (1.88)			4.5 (3.32)	3.0 (2.21)	3.9	1FK7044-4CH71-1	3	1.26 (1.12)	7.4 (16.3)
63		2 (2.68)	6.4 (4.72)	4.3 (3.17)	6.2	1FK7061-4CH71-1	3	4.1 (3.63)	9.5 (20.9)
		2.4 (3.22)	12.0 (8.85)	5.0 (3.69)	7.0	1FK7064-4CH71-1	3	7.5 (6.64)	15.4 (34.0)
			6000	36	0.6 (0.80)	1.3 (0.96)	0.9 (0.66)	1.6	1FK7033-4CK71-1
48	1.3 (1.74)	3.5 (2.58)		2.0 (1.48)	3.5	1FK7043-4CK71-1	3	1 (0.89)	6.0 (13.2)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM2048S/R encoder Multi-pole resolver 2-pole resolver			A E S T			
Encoder systems for motors with DRIVE-CLiQ interface:			AS24DQI encoder AM24DQI encoder AS20DQI encoder AM20DQI encoder R15DQ resolver R14DQ resolver			B C Q R U P			
Shaft extension: Feather key Feather key 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 IP65 and DE flange IP67			0 1 2			

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 High Dynamic motors
Natural cooling

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power P_{calc} ⁴⁾	SINAMICS S120 Motor Module		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾	Booksized format For additional versions and components see SINAMICS S120 drive system	Power connector	Cable cross- section ³⁾	Pre-assembled cable
	%	A	kW (HP)	I_{rated} A	Order No.	Size	mm ²	Order No.
				Line voltage 380 ... 480 V 3 AC				
1FK7064-4CC71-...	93	8.1	2.5 (3.35)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7085-4CC71-...	92	13.5	4.6 (6.17)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7086-4CC71-...	93	13.2	5.9 (7.91)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7044-4CF71-...	91	4.0	1.4 (1.88)	5	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7061-4CF71-...	93	6.1	2 (2.68)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7064-4CF71-...	93	10.8	3.8 (5.10)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7085-4CF71-...	92	22.0	6.9 (9.25)	30	6SL312-1-TE23-0AA3	1.5	4 × 4	6FX002-5N41-....
1FK7086-4CF71-...	93	21.5	8.8 (11.8)	30	6SL312-1-TE23-0AA3	1.5	4 × 4	6FX002-5N41-....
1FK7043-4CH71-...	90	4.1	1.6 (2.15)	5	6SL312-1-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7044-4CH71-...	91	5.4	2.1 (2.82)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7061-4CH71-...	93	8.7	3 (4.02)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7064-4CH71-...	93	15.0	5.7 (7.64)	18	6SL312-1-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7033-4CK71-...	88	2.1	0.8 (1.07)	3	6SL312-1-TE13-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7043-4CK71-...	90	5.6	2.2 (2.95)	9	6SL312-1-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....

Cooling:	
Internal air cooling	0
External air cooling	1
Motor Module:	
Single Motor Module	1
Double Motor Module	2

Power cable:	
MOTION-CONNECT 800 PLUS	8
MOTION-CONNECT 500	5
Without brake cores	C
With brake cores	D
Length code	

Information about the cables
can be found under
MOTION-CONNECT connection systems

¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 High Inertia motors Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 synchronous motors High Inertia	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	J	m
rpm		kW (HP)	Nm (lb _f -ft)	Nm (lb _f -ft)	A	Order No.		10^{-4} kgm^2 ($10^{-3}\text{ lb}_f\text{-in-s}^2$)	kg (lb)
1FK7 High Inertia for DC link voltage 510 ... 720 V DC – Natural cooling									
2000	80	3.1 (4.16)	20.0 (14.7)	15.0 (11.1)	6.7	1FK7084-3BC71-1 ■ ■ ■ ■	4	99 (87.6)	23.0 (50.7)
3000	63	1.5 (2.01)	6.0 (4.43)	4.7 (3.47)	3.7	1FK7060-3BF71-1 ■ ■ ■ ■	4	12.5 (11.1)	7.9 (17.4)
		1.9 (2.55)	8.5 (6.27)	6.0 (4.43)	4.0	1FK7062-3BF71-1 ■ ■ ■ ■	4	23.5 (20.8)	10.7 (23.6)
	80	2.7 (3.62)	12.0 (8.85)	8.7 (6.42)	6.8	1FK7081-3BF71-1 ■ ■ ■ ■	4	49 (43.4)	15.2 (33.5)
		3.1 (4.16)	20.0 (14.8)	10.0 (7.38)	6.5	1FK7084-3BF71-1 ■ ■ ■ ■	4	99 (87.6)	23.0 (50.7)
6000	48	0.9 (1.21)	3.0 (2.21)	1.5 (1.11)	2.5	1FK7042-3BK71-1 ■ ■ ■ ■	4	5.1 (4.51)	5.1 (11.2)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM2048S/R encoder			A E			
Encoder systems for motors with DRIVE-CLiQ interface:			AS24DQI encoder AM24DQI encoder AS20DQI encoder AM20DQI encoder			B C Q R			
Shaft extension: Feather key Feather key Plain shaft Plain shaft			Shaft and flange accuracy: Tolerance N Tolerance N Tolerance N Tolerance N			A B G H			
Holding brake: Without With Without With									
Degree of protection:			IP64 IP65 IP65 and DE flange IP67			0 1 2			

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 High Inertia motors
Natural cooling

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power P_{calc} ⁵⁾	SINAMICS S120 Motor Module		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾	Booksize format For additional versions and components see SINAMICS S120 drive system	Power connector	Cable cross- section ³⁾	Pre-assembled cable
	%	A	kW (HP)	A	Order No.	Size	mm ²	Order No.
Line voltage 380 ... 480 V 3 AC								
1FK7084-3BC71-...	93	8.5	4.2 (5.63)	9	6SL312-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7060-3BF71-...	90	4.45	1.9 (2.55)	5	6SL312-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7062-3BF71-...	91	5.3	2.7 (3.62)	5 ⁴⁾	6SL312-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7081-3BF71-...	93	8.7	3.8 (5.1)	9	6SL312-TE21-0AA3	1	4 × 1.5	6FX002-5N01-....
1FK7084-3BF71-...	93	12.1	6.3 (8.45)	18	6SL312-TE21-8AA3	1	4 × 1.5	6FX002-5N01-....
1FK7042-3BK71-...	89	4.4	1.9 (2.55)	5	6SL312-TE15-0AA3	1	4 × 1.5	6FX002-5N01-....
Cooling:						Power cable:		
Internal air cooling					0	MOTION-CONNECT 800		
External air cooling					1	MOTION-CONNECT 500		
Motor Module:						Without brake cores		
Single Motor Module					1	With brake cores		
Double Motor Module					2	Length code		
						Information about the cables can be found under MOTION-CONNECT connection systems		

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¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ With the specified Motor Module, the motor cannot be fully utilized with M_0 at $\Delta T = 100$ K winding temperature rise. If a Motor Module with a higher rating is used, you must check whether the specified power cable can be connected to it.

⁵⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors for Power Modules 230 V 1 AC

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 Compact synchronous motors for Power Modules 230 V 1 AC	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	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)
1FK7 Compact for DC link voltage 270 ... 330 V DC – Natural cooling									
3000	36	0.3 (0.4)	1.15 (0.85)	1.0 (0.74)	1.6	1FK7032-2AF21-1 ■ ■ ■	3	0.65 (0.58)	2.7 (5.95)
		0.5 (0.67)	1.6 (1.18)	1.45 (1.07)	1.8	1FK7034-2AF21-1 ■ ■ ■	3	0.9 (0.8)	3.5 (7.72)
	48	0.8 (1.07)	3.0 (2.21)	2.6 (1.92)	3.5	1FK7042-2AF21-1 ■ ■ ■	4	2.9 (2.57)	4.6 (10.1)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM2048S/R encoder Multi-pole resolver 2-pole resolver			A E S T			
Encoder systems for motors with DRIVE-CLiQ interface:			AS24DQI encoder AM24DQI encoder AS20DQI encoder AM20DQI encoder R15DQ resolver R14DQ resolver			B C Q R U P			
Shaft extension: Feather key Feather key 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 IP65 and DE flange IP67			0 1 2			

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

**SIMOTICS S-1FK7 Compact motors
for Power Modules 230 V 1 AC**

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power ⁵⁾ P_{calc}	SINAMICS S110/S120 Blocksize format		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾ I_{rated}	PM340 Power Module Air cooling Order No.	Power connector Size	Cable cross- section ³⁾ mm ²	Pre-assembled cable Order No.
				Line voltage 200 ... 240 V 1 AC				
1FK7032-2AF21-...	85	1.7	0.4 (0.54)	2.3	6SL3210-1SB12-3 A0	1	4 × 1.5	6FX 002-5 G10-....
1FK7034-2AF21-...	85	1.9	0.5 (0.67)	2.3	6SL3210-1SB12-3 A0	1	4 × 1.5	6FX 002-5 G10-....
1FK7042-2AF21-...	88	3.95	0.9 (1.21)	3.9 ⁴⁾	6SL3210-1SB14-0 A0	1	4 × 1.5	6FX 002-5 G10-....
				Line filter: Without Integrated		Power cable: MOTION-CONNECT 800 PLUS MOTION-CONNECT 500		
				U A		8 5		
						Without brake cores With brake cores		
						C D		
						Length code		
								

Information about the cables
can be found under
MOTION-CONNECT connection systems

¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ With the specified Motor Module, the motor cannot be fully utilized with M_0 at $\Delta T = 100$ K winding temperature rise. If a Motor Module with a higher rating is used, you must check whether the specified power cable can be connected to it.

⁵⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 Compact motors for Power Modules 230 V 1 AC

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 Compact synchronous motors for Power Modules 230 V 1 AC	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	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)
1FK7 Compact for DC link voltage 270 ... 330 V DC – Natural cooling									
6000	20	0.05 (0.07)	0.18 (0.13)	0.08 (0.06)	0.5	1FK7011-5AK21-1 ■ ■ ■	4	0.064 (0.057)	0.9 (1.98)
		0.1 (0.13)	0.35 (0.26)	0.16 (0.12)	0.5	1FK7015-5AK21-1 ■ ■ ■	4	0.083 (0.073)	1.1 (2.43)
	28	0.38 (0.51)	0.85 (0.63)	0.6 (0.44)	1.4	1FK7022-5AK21-1 ■ ■ ■	3	0.28 (0.25)	1.8 (3.97)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM512S/R encoder AM16S/R encoder (<u>only</u> for 1FK702) Multi-pole resolver 2-pole resolver			A H J S T			
Encoder systems for motors with DRIVE-CLiQ interface: (<u>only</u> for 1FK702)			IC22DQ encoder AM20DQ encoder AM15DQ encoder R15DQ resolver R14DQ resolver			D L V U P			
Shaft extension: Feather key Feather key 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 (<u>only</u> for 1FK702) IP65 and DE flange IP67 (<u>only</u> for 1FK702) IP54 (<u>only</u> for 1FK701), IP64 (<u>only</u> for 1FK702) IP65 and DE flange IP67 (<u>only</u> for 1FK702)					Paint finish: Without Without With With	0 2 3 5			

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

**SIMOTICS S-1FK7 Compact motors
for Power Modules 230 V 1 AC**

Motor type (repeated)	Efficiency ¹⁾	Stall current	Calculated power P_{calc} ⁴⁾	SINAMICS S110/S120 Blocksize format		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T=100$ K	P_{calc} at M_0 $\Delta T=100$ K	Rated output current ²⁾	PM340 Power Module Air cooling	Power connector	Cable cross-section ³⁾	Pre-assembled cable
	%	A	kW (HP)	I_{rated} A	Order No.	Size	mm ²	Order No.
Line voltage 200 ... 240 V 1 AC								
1FK7011-5AK21-...	62	0.85	0.1 (0.13)	0.9	6SL3210-1SB11-0■A0	0.5	4 × 1.5	6FX5002-5DN30-....
1FK7015-5AK21-...	68	0.85	0.2 (0.27)	0.9	6SL3210-1SB11-0■A0	0.5	4 × 1.5	6FX5002-5DN30-....
1FK7022-5AK21-...	86	1.8	0.5 (0.67)	2.3	6SL3210-1SB12-3■A0	1	4 × 1.5	6FX■002-5■G10-....
Line filter:				U		Power cable:		
Without				A		MOTION-CONNECT 800 PLUS		8
Integrated						MOTION-CONNECT 500		5
						Without brake cores		C
						With brake cores		D
						Length code		

Information about the cables
can be found under
MOTION-CONNECT connection systems

¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb_r-ft] \times n_{rated}}{5250}$

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

SIMOTICS S-1FK7 High Dynamic motors for Power Modules 230 V 1 AC

Selection and ordering data

Rated speed	Shaft height	Rated power	Static torque	Rated torque	Rated current	SIMOTICS S-1FK7 High Dynamic synchronous motors for Power Modules 230 V 1 AC	Number of pole pairs	Moment of inertia of rotor (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 $\Delta T=100\text{ K}$		p	J	m
rpm		kW (HP)	Nm (lb _f -ft)	Nm (lb _f -ft)	A		Order No.	10^{-4} kgm^2 ($10^{-3}\text{ lb}_f\text{-in-s}^2$)	kg (lb)
1FK7 High Dynamic for DC link voltage 270 ... 330 V DC – Natural cooling									
3000	36	0.4 (0.54)	1.3 (0.96)	1.2 (0.89)	2.05	1FK7033-4CF21-1	3	0.25 (0.22)	3.0 (6.62)
	48	0.9 (1.21)	3.3 (2.43)	3.0 (2.21)	3.7	1FK7043-4CF21-1	3	1 (0.89)	6.0 (13.23)
Encoder systems for motors without DRIVE-CLiQ interface:			IC2048S/R encoder AM2048S/R encoder Multi-pole resolver 2-pole resolver			A E S T			
Encoder systems for motors with DRIVE-CLiQ interface:			AS24DQI encoder AM24DQI encoder AS20DQI encoder AM20DQI encoder R15DQ resolver R14DQ resolver			B C Q R U P			
Shaft extension: Feather key Feather key 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 IP65 and DE flange IP67				0 1 2		

SIMOTICS servomotors

SIMOTICS S synchronous motors for SINAMICS S120

**SIMOTICS S-1FK7 High Dynamic motors
for Power Modules 230 V 1 AC**

Motor type (repeated)	Effi- cien- cy ¹⁾	Stall current	Calculated power P_{calc} ⁴⁾	SINAMICS S120 blocksize format		Power cable with complete shield Motor connection (and brake connection) via power connector		
	η	I_0 at M_0 $\Delta T = 100$ K	P_{calc} at M_0 $\Delta T = 100$ K	Rated output current ²⁾	PM340 Power Module Air cooling	Power connector	Cable cross- section ³⁾	Pre-assembled cable
	%	A	kW (HP)	I_{rated} A	Order No.	Size	mm ²	Order No.
Line voltage 200 ... 240 V 1 AC								
1FK7033-4CF21-...	86	2.1	0.4 (0.54)	2.3	6SL3210-1SB12-3 A0	1	4 × 1.5	6FX 002-5 G10-....
1FK7043-4CF21-...	88	3.9	1 (1.34)	3.9	6SL3210-1SB14-0 A0	1	4 × 1.5	6FX 002-5 G10-....
Line filter:				U		Power cable:		
Without				A		MOTION-CONNECT 800 PLUS 8		
Integrated						MOTION-CONNECT 500 5		
						Without brake cores C		
						With brake cores D		
						Length code		

Information about the cables
can be found under
MOTION-CONNECT connection systems

¹⁾ Optimum efficiency in continuous duty.

²⁾ With default setting of the pulse frequency.

³⁾ 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). Cable cross-section for brake connection 2 × 1.5 mm².

⁴⁾ $P_{calc} [kW] = \frac{M_0 [Nm] \times n_{rated}}{9550}$ $P_{calc} [hp] = \frac{M_0 [lb_f \cdot ft] \times n_{rated}}{5250}$