Feed motors for SINAMICS S110/S120 at line 380-480V 3 AC

Motors 1FK7 Compact
Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power at ΔT=100 K	Static torque at ΔT=100 K	Rated torque at ΔT=100 K	Rated current at ΔT=100 K	**Syncronous motor 1FK7 Compact**	Number of pole pairs	Moment of rotor inertia (without brake)	Weight (motor without brake)	Efficiency [1]	Static current at ΔT=100 K	Calculated power $P_{calc} = M_0 \times n_N / 9550$	Power connector size	Cable cross-section [2]
n_N	SH	P_N	M_0	M_N	I_N	Order No.		J	m	η	I_0	P_{calc}		
rpm		kW	Nm	Nm	A			$kgcm^2$	kg	%	A	kW		mm^2
1FK7 Compact for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)														
6000	20	0.05	0.18	0.08	0.85	1FK7011-5AK71-1❑❑❑	4	0.064	0.9	62	1.5	0.1	0.5	4x1.5
		0.1	0.35	0.16	0.85	1FK7015-5AK71-1❑❑❑	4	0.083	1.1	68	1.5	0.2	0.5	4x1.5
	28	0.38	0.85	0.6	1.4	1FK7022-5AK71-1❑❑❑	3	0.28	1.8	86	1.8	0.5	1	4x1.5

Encoder systems for motors without DRIVE-CLiQ interface:

1FK7...-.....-.A	Incremental encoder sin/cos 1 Vpp 2048 S/R	IC2048S/R
1FK7...-.....-.H	Absolute encoder EnDat 514 S/R (1FK702 only)	AM512S/R
1FK7...-.....-.J	Absolute encoder EnDat 16 S/R	AM16S/R
1FK7...-.....-.S	Resolver multipole	Resolver p=x
1FK7...-.....-.T	Resolver 2-pole	Resolver p=1

Encoder systems for motors with DRIVE-CLiQ interface: (1FK702 only)

1FK7...-.....-.D	Incremental encoder 22 bit	IC22DQ
1FK7...-.....-.L	Absolute encoder 20 bit + 12 bit	AM20DQ
1FK7...-.....-.V	Incremental encoder 22 bit	IC22DQ
1FK7...-.....-.U	Resolver 15 bit multipole	R15DQ
1FK7...-.....-.P	Resolver 14 bit 2-pole	R14DQ

	Brake:	**Shaft:**
1FK7...-.....-..A	without	Fitted key and keyway
1FK7...-.....-..B	with	Fitted key and keyway
1FK7...-.....-..G	without	Plain shaft
1FK7...-.....-..H	with	Plain shaft

	Degree of protection:	**Coating:**
1FK7...-.....-...0	IP64 (1FK702 only)	without paint finis
1FK7...-.....-...2	IP65 and DE-Flange IP67 (1FK702 only)	without paint finis
1FK7...-.....-...3	IP54 for 1FK701 / IP64 for 1FK702	with paint finish
1FK7...-.....-...5	IP65 and DE-Flange IP67 (1FK702 only)	with paint finish

[1] Optimum efficiency at continous load

[2] The current carrying capacity of the power cables complies with IEC 60204-1 for installation type C under continuous operating conditions at an ambient air temperature of 40 °C (104 °F), designed for I0 (100 K), PVC/PUR-insulated cable.

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Feed motors for SINAMICS S110/S120 at line 380-480V 3 AC

Motors 1FK7 Compact
Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power at ΔT=100 K	Static torque at ΔT=100 K	Rated torque at ΔT=100 K	Rated current at ΔT=100 K	**Syncronous motor 1FK7 Compact**	Number of pole pairs	Moment of rotor inertia (without brake)	Weight (motor without brake)	Efficiency [1]	Static current at ΔT=100 K	Calculated power $P_{calc} = M_0 \times n_N / 9550$	Power connector size	Cable cross-section [2]
n_N	SH	P_N	M_0	M_N	I_N	Order No.		J	m	η	I_0	P_{calc}		
rpm		kW	Nm	Nm	A			kgcm²	kg	%	A	kW		mm²
1FK7 Compact for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)														
2000	48	0.6	3.0	2.8	1.55	1FK7042-2AC71-1❑❑❑	4	2.9	4.6	88	1.6	0.6	1	4x1.5
	63	1.1	6.0	5.3	2.95	1FK7060-2AC71-1❑❑❑	4	7.7	7.1	90	3.15	1.3	1	4x1.5
		1.5	8.5	7.0	2.65	1FK7062-2AC71-1❑❑❑	4	11.2	9.1	90	3.0	1.8	1	4x1.5
		1.9	11.0	8.9	4.4	1FK7063-2AC71-1❑❑❑	4	14.7	11.1	91	5.3	2.3	1	4x1.5
	80	2.1	12.0	10.0	4.4	1FK7081-2AC71-1❑❑❑	4	20	12.9	93	5.0	2.5	1	4x1.5
		2.6	16.0	12.5	6.3	1FK7083-2AC71-1❑❑❑	4	26	15.6	93	7.5	3.4	1	4x1.5
		3.1	20.0	15.0	6.7	1FK7084-2AC71-1❑❑❑	4	32.5	18.3	93	8.5	4.2	1	4x1.5
	100	3	18.0	14.5	7.1	1FK7100-2AC71-1❑❑❑	4	54	17.6	92	8.4	3.8	1	4x1.5
		4.3	27.0	20.5	9.7	1FK7101-2AC71-1❑❑❑	4	79	23.0	93	12.3	5.7	1.5	4x1.5
		5.2	36.0	25.0	11.0	1FK7103-2AC71-1❑❑❑	4	104	28.5	93	14.4	7.5	1.5	4x1.5
		7.7	48.0	37.0	16.0	1FK7105-2AC71-1❑❑❑	4	154	39.0	93	20.0	10.1	1.5	4x2.5
3000	48	0.8	3.0	2.6	2.0	1FK7042-2AF71-1❑❑❑	4	2.9	4.6	89	2.2	0.9	1	4x1.5
	63	1.5	6.0	4.7	3.7	1FK7060-2AF71-1❑❑❑	4	7.7	7.1	90	4.45	1.9	1	4x1.5
		1.9	8.5	6.0	4.0	1FK7062-2AF71-1❑❑❑	4	11.2	9.1	91	5.3	2.7	1	4x1.5
		2.3	11.0	7.3	5.6	1FK7063-2AF71-1❑❑❑	4	14.7	11.1	91	8.0	3.5	1	4x1.5
	80	2.1	8.0	6.8	4.4	1FK7080-2AF71-1❑❑❑	4	14.2	10.3	92	4.9	2.5	1	4x1.5
		2.7	12.0	8.7	6.8	1FK7081-2AF71-1❑❑❑	4	20	12.9	93	8.7	3.8	1	4x1.5
		3.3	16.0	10.5	7.2	1FK7083-2AF71-1❑❑❑	4	26	15.6	93	10.1	5	1	4x1.5
		3.1	20.0	10.0	6.5	1FK7084-2AF71-1❑❑❑	4	32.5	18.3	93	12.1	6.3	1	4x1.5
	100	3.8	18.0	12.0	8.0	1FK7100-2AF71-1❑❑❑	4	54	17.6	92	11.1	5.7	1	4x1.5
		4.9	27.0	15.5	11.6	1FK7101-2AF71-1❑❑❑	4	79	23.0	93	18.8	8.5	1.5	4x2.5
		4.4	36.0	14.0	11.5	1FK7103-2AF71-1❑❑❑	4	104	28.5	93	26.0	11.3	1.5	4x4
		8.2	48.0	26.0	18.0	1FK7105-2AF71-1❑❑❑	4	154	39.0	94	31.0	15.1	1.5	4x6

Encoder systems for motors without DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . A	Incremental encoder sin/cos 1 Vpp 2048 S/R	IC2048S/R
1FK7 . . . - . . . . . - . E	Absolute encoder EnDat 2048 S/R	AM2048S/R
1FK7 . . . - . . . . . - . S	Resolver multipole	Resolver p=x
1FK7 . . . - . . . . . - . T	Resolver 2-pole	Resolver p=1

Encoder systems for motors with DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . B	Absolute encoder singleturn 24 bit	AS24DQI
1FK7 . . . - . . . . . - . C	Absolute encoder 24 bit + 12 bit multiturn	AM24DQI
1FK7 . . . - . . . . . - . Q	Absolute encoder singleturn 20 bit	AS20DQI
1FK7 . . . - . . . . . - . R	Absolute encoder 20 bit + 12 bit multiturn	AM20DQI
1FK7 . . . - . . . . . - . U	Resolver 15 bit, multipole	R15DQ
1FK7 . . . - . . . . . - . P	Resolver 14 bit, 2-pole	R14DQ

	Brake:	**Shaft:**
1FK7 . . . - . . . . . - . . A	without	Fitted key and keyway
1FK7 . . . - . . . . . - . . B	with	Fitted key and keyway
1FK7 . . . - . . . . . - . . G	without	Plain shaft
1FK7 . . . - . . . . . - . . H	with	Plain shaft

	Degree of protection:
1FK7 . . . - . . . . . - . . . 0	IP64
1FK7 . . . - . . . . . - . . . 1	IP65
1FK7 . . . - . . . . . - . . . 2	IP65 and DE-Flange IP67

[1] Optimum efficiency at continous load

[2] The current carrying capacity of the power cables complies with IEC 60204-1 for installation type C under continuous operating conditions at an ambient air temperature of 40 °C (104 °F), designed for I0 (100 K), PVC/PUR-insulated cable.

Feed motors for SINAMICS S110/S120 at line 380-480V 3 AC

Motors 1FK7 Compact
Natural cooling

Selection and ordering data

Rated speed n_N rpm	Shaft height SH	Rated power at ΔT=100 K P_N kW	Static torque at ΔT=100 K M_0 Nm	Rated torque at ΔT=100 K M_N Nm	Rated current at ΔT=100 K I_N A	**Syncronous motor 1FK7 Compact** Order No.	Number of pole pairs	Moment of rotor inertia (without brake) J kgcm²	Weight (motor without brake) m kg	Efficiency [1] η %	Static current at ΔT=100 K I_0 A	Calculated power $P_{calc} = M_0 \times n_N / 9550$ P_{calc} kW	Power connector size	Cable cross-section [2] mm²
1FK7 Compact for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)														
4500	63	1.7	6.0	3.7	4.3	1FK7060-2AH71-1❑❑❑	4	7.7	7.1	90	6.3	2.8	1	4x1.5
		1.4	8.5	3.0	3.3	1FK7062-2AH71-1❑❑❑	4	11.2	9.1	91	8.0	4	1	4x1.5
		1.4	11.0	3.0	3.8	1FK7063-2AH71-1❑❑❑	4	14.7	11.1	90	12.0	5.2	1	4x1.5
	80	2.1	8.0	4.5	4.8	1FK7080-2AH71-1❑❑❑	4	14.2	10.3	92	7.4	3.8	1	4x1.5
		1.8	12.0	3.8	4.9	1FK7081-2AH71-1❑❑❑	4	20	12.9	93	13.1	5.7	1	4x1.5
		1.4	16.0	3.0	3.6	1FK7083-2AH71-1❑❑❑	4	26	15.6	93	15.0	7.5	1	4x1.5
6000	36	0.5	1.15	0.8	1.3	1FK7032-2AK71-1❑❑❑	3	0.65	2.7	88	1.7	0.7	1	4x1.5
		0.6	1.6	1.0	1.3	1FK7034-2AK71-1❑❑❑	3	0.9	3.5	88	1.9	1	1	4x1.5
	48	0.7	1.6	1.1	1.85	1FK7040-2AK71-1❑❑❑	4	1.6	3.2	88	2.35	1	1	4x1.5
		0.9	3.0	1.5	2.5	1FK7042-2AK71-1❑❑❑	4	2.9	4.6	89	4.4	1.9	1	4x1.5

Encoder systems for motors without DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . A	Incremental encoder sin/cos 1 Vpp 2048 S/R	IC2048S/R
1FK7 . . . - . . . . . - . E	Absolute encoder EnDat 2048 S/R	AM2048S/R
1FK7 . . . - . . . . . - . S	Resolver multipole	Resolver p=x
1FK7 . . . - . . . . . - . T	Resolver 2-pole	Resolver p=1

Encoder systems for motors with DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . B	Absolute encoder singleturn 24 bit	AS24DQI
1FK7 . . . - . . . . . - . C	Absolute encoder 24 bit + 12 bit multiturn	AM24DQI
1FK7 . . . - . . . . . - . Q	Absolute encoder singleturn 20 bit	AS20DQI
1FK7 . . . - . . . . . - . R	Absolute encoder 20 bit + 12 bit multiturn	AM20DQI
1FK7 . . . - . . . . . - . U	Resolver 15 bit, multipole	R15DQ
1FK7 . . . - . . . . . - . P	Resolver 14 bit, 2-pole	R14DQ

	Brake:	**Shaft:**
1FK7 . . . - . . . . . - . . A	without	Fitted key and keyway
1FK7 . . . - . . . . . - . . B	with	Fitted key and keyway
1FK7 . . . - . . . . . - . . G	without	Plain shaft
1FK7 . . . - . . . . . - . . H	with	Plain shaft

	Degree of protection:
1FK7 . . . - . . . . . - . . . 0	IP64
1FK7 . . . - . . . . . - . . . 1	IP65
1FK7 . . . - . . . . . - . . . 2	IP65 and DE-Flange IP67

[1] Optimum efficiency at continous load

[2] The current carrying capacity of the power cables complies with IEC 60204-1 for installation type C under continuous operating conditions at an ambient air temperature of 40 °C (104 °F), designed for I0 (100 K), PVC/PUR-insulated cable.

Feed motors for SINAMICS S110/S120 at line 380-480V 3 AC

Motors 1FK7 High Dynamic / High Inertia
Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power at ΔT=100 K	Static torque at ΔT=100 K	Rated torque at ΔT=100 K	Rated current at ΔT=100 K	**Syncronous motor 1FK7 High Dynamic / 1FK7 High Inertia** Order No.	Number of pole pairs	Moment of rotor inertia (without brake)	Weight (motor without brake)	Efficiency [1]	Static current at ΔT=100 K	Calculated power $P_{calc} = M_0 \times n_N / 9550$	Power connector size	Cable cross-section [2]
n_N	SH	P_N	M_0	M_N	I_N	Order No.		J	m	η	I_0	P_{calc}		
rpm		kW	Nm	Nm	A			$kgcm^2$	kg	%	A	kW		mm^2
1FK7 High Dynamic for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)														
2000	63	2.1	12.0	10.0	7.1	1FK7064-4CC71-1❑❑❑	3	7.5	15.4	93	8.1	2.5	1	4x1.5
	80	3.1	22.0	15.0	10.0	1FK7085-4CC71-1❑❑❑	4	22	23.0	92	13.5	4.6	1	4x1.5
		3.8	28.0	18.0	9.0	1FK7086-4CC71-1❑❑❑	4	22	23.0	93	13.2	5.9	1	4x1.5
3000	48	1.2	4.5	3.7	3.45	1FK7044-4CF71-1❑❑❑	3	1.26	7.4	91	4.0	1.4	1	4x1.5
	63	1.7	6.4	5.4	5.3	1FK7061-4CF71-1❑❑❑	3	4.1	9.5	93	6.1	2	1	4x1.5
		2.5	12.0	8.0	7.6	1FK7064-4CF71-1❑❑❑	3	7.5	15.4	93	10.8	3.8	1	4x1.5
	80	2	22.0	6.5	7.0	1FK7085-4CF71-1❑❑❑	4	22	23.0	92	22.0	6.9	1.5	4x4
		2	28.0	6.5	5.7	1FK7086-4CF71-1❑❑❑	4	22	23.0	93	21.5	8.8	1.5	4x4
4500	48	1.2	3.5	2.6	3.3	1FK7043-4CH71-1❑❑❑	3	1	6.0	90	4.1	1.6	1	4x1.5
		1.4	4.5	3.0	3.9	1FK7044-4CH71-1❑❑❑	3	1.26	7.4	91	5.4	2.1	1	4x1.5
	63	2	6.4	4.3	6.2	1FK7061-4CH71-1❑❑❑	3	4.1	9.5	93	8.7	3	1	4x1.5
		2.4	12.0	5.0	7.0	1FK7064-4CH71-1❑❑❑	3	7.5	15.4	93	15.0	5.7	1	4x1.5
6000	36	0.6	1.3	0.9	1.6	1FK7033-4CK71-1❑❑❑	3	0.25	3.0	88	2.1	0.8	1	4x1.5
	48	1.3	3.5	2.0	3.5	1FK7043-4CK71-1❑❑❑	3	1	6.0	90	5.6	2.2	1	4x1.5
1FK7 High Inertia for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)														
2000	80	3.1	20.0	15.0	6.7	1FK7084-3BC71-1❑❑❑	4	99	23.0	93	8.5	4.2	1	4x1.5
3000	63	1.5	6.0	4.7	3.7	1FK7060-3BF71-1❑❑❑	4	12.5	7.9	90	4.45	1.9	1	4x1.5
		1.9	8.5	6.0	4.0	1FK7062-3BF71-1❑❑❑	4	23.5	10.7	91	5.3	2.7	1	4x1.5
	80	2.7	12.0	8.7	6.8	1FK7081-3BF71-1❑❑❑	4	49	15.2	93	8.7	3.8	1	4x1.5
		3.1	20.0	10.0	6.5	1FK7084-3BF71-1❑❑❑	4	99	23.0	93	12.1	6.3	1	4x1.5
6000	48	0.9	3.0	1.5	2.5	1FK7042-3BK71-1❑❑❑	4	5.1	5.1	89	4.4	1.9	1	4x1.5

Encoder systems for motors without DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . A	Incremental encoder sin/cos 1 Vpp 2048 S/R	IC2048S/R
1FK7 . . . - . . . . . - . E	Absolute encoder EnDat 2048 S/R	AM2048S/R
1FK7 . . . - . . . . . - . S	Resolver multipole (not for High Inertia)	Resolver p=x
1FK7 . . . - . . . . . - . T	Resolver 2-pole (not for High Inertia)	Resolver p=1

Encoder systems for motors with DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . B	Absolute encoder singleturn 24 bit	AS24DQI
1FK7 . . . - . . . . . - . C	Absolute encoder 24 bit + 12 bit multiturn	AM24DQI
1FK7 . . . - . . . . . - . Q	Absolute encoder singleturn 20 bit	AS20DQI
1FK7 . . . - . . . . . - . R	Absolute encoder 20 bit + 12 bit multiturn	AM20DQI
1FK7 . . . - . . . . . - . U	Resolver 15 bit, multipole (not for High Inertia)	R15DQ
1FK7 . . . - . . . . . - . P	Resolver 14 bit, 2-pole (not for High Inertia)	R14DQ

	Brake:	**Shaft:**
1FK7 . . . - . . . . . - . . A	without	Fitted key and keyway
1FK7 . . . - . . . . . - . . B	with	Fitted key and keyway
1FK7 . . . - . . . . . - . . G	without	Plain shaft
1FK7 . . . - . . . . . - . . H	with	Plain shaft

	Degree of protection:
1FK7 . . . - . . . . . - . . . 0	IP64
1FK7 . . . - . . . . . - . . . 1	IP65
1FK7 . . . - . . . . . - . . . 2	IP65 and DE-Flange IP67

[1] Optimum efficiency at continous load

[2] The current carrying capacity of the power cables complies with IEC 60204-1 for installation type C under continuous operating conditions at an ambient air temperature of 40 °C (104 °F), designed for I0 (100 K), PVC/PUR-insulated cable.

Feed motors for SINAMICS S110/S120 PM340 at line 200-240V 1 AC

Motors 1FK7 Compact
Natural cooling

Selection and ordering data

Rated speed n_N rpm	Shaft height SH	Rated power at ΔT=100 K P_N kW	Static torque at ΔT=100 K M_0 Nm	Rated torque at ΔT=100 K M_N Nm	Rated current at ΔT=100 K I_N A	**Syncronous motor 1FK7 Compact** Order No.	Number of pole pairs	Moment of rotor inertia (without brake) J kgcm²	Weight (motor without brake) m kg	Efficiency [1] η %	Static current at ΔT=100 K I_0 A	Calculated power $P_{calc} = M_0 \times n_N / 9550$ P_{calc} kW	Power connector size	Cable cross-section [2] mm²
1FK7 Compact for DC-Link 270 V to 330 V (line voltage 200-240 V 1 AC)														
6000	20	0.05	0.18	0.08	0.5	1FK7011-5AK21-1❑❑❑	4	0.0064	0.9	62	0.85	0.1	0.5	4x1.5
		0.1	0.35	0.16	0.5	1FK7015-5AK21-1❑❑❑	4	0.083	1.1	68	0.85	0.2	0.5	4x1.5
	28	0.38	0.85	0.6	1.4	1FK7022-5AK21-1❑❑❑	3	0.28	1.8	85	1.8	0.5	1	4x1.5

Encoder systems for motors without DRIVE-CLiQ interface:

1FK7...-.....-.A	Incremental encoder sin/cos 1 Vpp 2048 S/R	IC2048S/R
1FK7...-.....-.H	Absolute encoder EnDat 512 S/R (1FK702 only)	AM512S/R
1FK7...-.....-.J	Absolute encoder EnDat 16 S/R	AM16S/R
1FK7...-.....-.S	Resolver multipole	Resolver p=x
1FK7...-.....-.T	Resolver 2-pole	Resolver p=1

Encoder systems for motors with DRIVE-CLiQ interface: (1FK702 only)

1FK7...-.....-.D	Incremental encoder 22 bit	IC22DQ
1FK7...-.....-.L	Absolute encoder 20 bit + 12 bit	AM20DQ
1FK7...-.....-.V	Incremental encoder 22 bit	IC22DQ
1FK7...-.....-.U	Resolver 15 bit multipole	R15DQ
1FK7...-.....-.P	Resolver 14 bit 2-pole	R14DQ

	Brake:	**Shaft:**
1FK7...-.....-..A	without	Fitted key and keyway
1FK7...-.....-..B	with	Fitted key and keyway
1FK7...-.....-..G	without	Plain shaft
1FK7...-.....-..H	with	Plain shaft

	Degree of protection:	**Coating:**
1FK7...-.....-...0	IP64 (1FK702 only)	without paint finis
1FK7...-.....-...2	IP65 and DE-Flange IP67 (1FK702 only)	without paint finis
1FK7...-.....-...3	IP54 for 1FK701 / IP64 for 1FK702	with paint finish
1FK7...-.....-...5	IP65 and DE-Flange IP67 (1FK702 only)	with paint finish

[1] Optimum efficiency at continous load

[2] The current carrying capacity of the power cables complies with IEC 60204-1 for installation type C under continuous operating conditions at an ambient air temperature of 40 °C (104 °F), designed for I0 (100 K), PVC/PUR-insulated cable.

Feed motors for SINAMICS S110/S120 PM340 at line 200-240V 1 AC

Motors 1FK7 Compact / High Dynamic
Natural cooling

Selection and ordering data

Rated speed	Shaft height	Rated power at ΔT=100 K	Static torque at ΔT=100 K	Rated torque at ΔT=100 K	Rated current at ΔT=100 K	Syncronous motor 1FK7 Compact / 1FK7 High Dynamic	Number of pole pairs	Moment of rotor inertia (without brake)	Weight (motor without brake)	Efficiency [1]	Static current at ΔT=100 K	Calculated power $P_{calc} = M_0 \times n_N / 9550$	Power connector size	Cable cross-section [2]
n_N	SH	P_N	M_0	M_N	I_N	Order No.		J	m	η	I_0	P_{calc}		
rpm		kW	Nm	Nm	A			$kgcm^2$	kg	%	A	kW		mm^2
1FK7 Compact for DC-Link 270 V to 330 V (line voltage 200-240 V 1 AC)														
3000	36	0.3	1.15	1.0	1.6	1FK7032-2AF21-1❑❑❑	3	0.65	2.7	85	1.7	0.4	1	4x1.5
		0.5	1.6	1.45	1.8	1FK7034-2AF21-1❑❑❑	3	0.9	3.5	85	1.9	0.5	1	4x1.5
	48	0.8	3.0	2.6	3.5	1FK7042-2AF21-1❑❑❑	4	2.9	4.6	88	3.95	0.9	1	4x1.5
1FK7 High Dynamic for DC-Link 270 V to 330 V (line voltage 200-240 V 1 AC)														
3000	36	0.4	1.3	1.2	2.05	1FK7033-4CF21-1❑❑❑	3	0.25	3.0	86	2.1	0.4	1	4x1.5
	48	0.9	3.3	3.0	3.7	1FK7043-4CF21-1❑❑❑	3	1	6.0	88	3.9	1	1	4x1.5

Encoder systems for motors without DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . A	Incremental encoder sin/cos 1 Vpp 2048 S/R	IC2048S/R
1FK7 . . . - . . . . . - . E	Absolute encoder EnDat 2048 S/R	AM2048S/R
1FK7 . . . - . . . . . - . S	Resolver multipole	Resolver p=x
1FK7 . . . - . . . . . - . T	Resolver 2-pole	Resolver p=1

Encoder systems for motors with DRIVE-CLiQ interface:

1FK7 . . . - . . . . . - . B	Absolute encoder singleturn 24 bit	AS24DQI
1FK7 . . . - . . . . . - . C	Absolute encoder 24 bit + 12 bit multiturn	AM24DQI
1FK7 . . . - . . . . . - . Q	Absolute encoder singleturn 20 bit	AS20DQI
1FK7 . . . - . . . . . - . R	Absolute encoder 20 bit + 12 bit multiturn	AM20DQI
1FK7 . . . - . . . . . - . U	Resolver 15 bit, multipole	R15DQ
1FK7 . . . - . . . . . - . P	Resolver 14 bit, 2-pole	R14DQ

	Brake:	**Shaft:**
1FK7 . . . - . . . . . - . . A	without	Fitted key and keyway
1FK7 . . . - . . . . . - . . B	with	Fitted key and keyway
1FK7 . . . - . . . . . - . . G	without	Plain shaft
1FK7 . . . - . . . . . - . . H	with	Plain shaft

	Degree of protection:
1FK7 . . . - . . . . . - . . . 0	IP64
1FK7 . . . - . . . . . - . . . 1	IP65
1FK7 . . . - . . . . . - . . . 2	IP65 and DE-Flange IP67

[1] Optimum efficiency at continous load

[2] The current carrying capacity of the power cables complies with IEC 60204-1 for installation type C under continuous operating conditions at an ambient air temperature of 40 °C (104 °F), designed for I0 (100 K), PVC/PUR-insulated cable.