

# 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 $\Delta T=100\text{ K}$ $P_N$ kW	Static torque at $\Delta T=100\text{ K}$ $M_0$ Nm	Rated torque at $\Delta T=100\text{ K}$ $M_N$ Nm	Rated current at $\Delta T=100\text{ K}$ $I_N$ A	Synchronous motor 1FK7 Compact Order No.	Number of pole pairs	Moment of rotor inertia (without brake) J kgcm <sup>2</sup>	Weight (motor without brake) m kg	Efficiency <sup>1)</sup> $\eta$ %	Static current at $\Delta T=100\text{ K}$ $I_0$ A	Calculated power $P_{\text{calc}} = M_0 \times n_N / 9550$ kW	Power connector size	Cable cross-section <sup>2)</sup> mm <sup>2</sup>
<b>1FK7 Compact for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)</b>														
<b>6000</b>	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 finish
1FK7 . . . . . 2	IP65 and DE-Flange IP67 (1FK702 only)	without paint finish
1FK7 . . . . . 3	IP54 for 1FK701 / IP64 for 1FK702	with paint finish
1FK7 . . . . . 5	IP65 and DE-Flange IP67 (1FK702 only)	with paint finish

<sup>1)</sup> Optimum efficiency at continuous load

<sup>2)</sup> 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 $\Delta T=100$ K $P_N$ kW	Static torque at $\Delta T=100$ K $M_0$ Nm	Rated torque at $\Delta T=100$ K $M_N$ Nm	Rated current at $\Delta T=100$ K $I_N$ A	Synchronous motor 1FK7 Compact Order No.	Number of pole pairs	Moment of rotor inertia (without brake) J kgcm <sup>2</sup>	Weight (motor without brake) m kg	Efficiency <sup>1)</sup> $\eta$ %	Static current at $\Delta T=100$ K $I_0$ A	Calculated power $P_{calc} = M_0 \times n_N / 9550$ $P_{calc}$ kW	Power connector size	Cable cross-section <sup>2)</sup> mm <sup>2</sup>	
<b>1FK7 Compact for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)</b>															
<b>2000</b>	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		
<b>3000</b>	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 multeturn	AM24DQI
1FK7 . . . . . Q	Absolute encoder singleturn 20 bit	AS20DQI
1FK7 . . . . . R	Absolute encoder 20 bit + 12 bit multeturn	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

<sup>1)</sup> Optimum efficiency at continuous load

<sup>2)</sup> 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 $\Delta T=100$ K $P_N$ kW	Static torque at $\Delta T=100$ K $M_0$ Nm	Rated torque at $\Delta T=100$ K $M_N$ Nm	Rated current at $\Delta T=100$ K $I_N$ A	Synchronous motor 1FK7 Compact Order No.	Number of pole pairs	Moment of rotor inertia (without brake) J kgcm <sup>2</sup>	Weight (motor without brake) m kg	Efficiency <sup>1)</sup> $\eta$ %	Static current at $\Delta T=100$ K $I_0$ A	Calculated power $P_{calc} = M_0 \times n_N / 9550$ kW	Power connector size	Cable cross-section <sup>2)</sup> mm <sup>2</sup>
<b>1FK7 Compact for DC-Link 510 V to 720 V (line voltage 380-480 V 3 AC)</b>														
<b>4500</b>	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
<b>6000</b>	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

<sup>1)</sup> Optimum efficiency at continuous load

<sup>2)</sup> 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 $n_N$ rpm	Shaft height SH	Rated power at $\Delta T=100$ K $P_N$ kW	Static torque at $\Delta T=100$ K $M_0$ Nm	Rated torque at $\Delta T=100$ K $M_N$ Nm	Rated current at $\Delta T=100$ K $I_N$ A	Synchronous motor 1FK7 High Dynamic / 1FK7 High Inertia Order No.	Number of pole pairs	Moment of rotor inertia (without brake) J kgcm <sup>2</sup>	Weight (motor without brake) m kg	Efficiency <sup>1)</sup> $\eta$ %	Static current at $\Delta T=100$ K $I_0$ A	Calculated power $P_{calc} = M_0 \times n_N / 9550$ kW	Power connector size	Cable cross-section <sup>2)</sup> mm <sup>2</sup>
-----------------------------	--------------------	---	---	--	--	--	----------------------	--	--	---	---	--	----------------------	--

### 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
6000	48	2.4	12.0	5.0	7.0	1FK7064-4CH71-1□□□	3	7.5	15.4	93	15.0	5.7	1	4x1.5
		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

<sup>1)</sup> Optimum efficiency at continuous load

<sup>2)</sup> 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	Shaft height	Rated power at $\Delta T=100\text{ K}$	Static torque at $\Delta T=100\text{ K}$	Rated torque at $\Delta T=100\text{ K}$	Rated current at $\Delta T=100\text{ K}$	Synchronous motor 1FK7 Compact Order No.	Number of pole pairs	Moment of rotor inertia (without brake)	Weight (motor without brake)	Efficiency <sup>1)</sup>	Static current at $\Delta T=100\text{ K}$	Calculated power $P_{\text{calc}} = M_0 \times n_N / 9550$	Power connector size	Cable cross-section <sup>2)</sup>
$n_N$ rpm	SH	$P_N$ kW	$M_0$ Nm	$M_N$ Nm	$I_N$ A		J kgcm <sup>2</sup>	m	$\eta$ %	$I_0$ A	$P_{\text{calc}}$ kW		mm <sup>2</sup>	
<b>1FK7 Compact for DC-Link 270 V to 330 V (line voltage 200-240 V 1 AC)</b>														
<b>6000</b>	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 finish
1FK7 . . . . . 2	IP65 and DE-Flange IP67 (1FK702 only)	without paint finish
1FK7 . . . . . 3	IP54 for 1FK701 / IP64 for 1FK702	with paint finish
1FK7 . . . . . 5	IP65 and DE-Flange IP67 (1FK702 only)	with paint finish

<sup>1)</sup> Optimum efficiency at continuous load

<sup>2)</sup> 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 $\Delta T=100\text{ K}$	Static torque at $\Delta T=100\text{ K}$	Rated torque at $\Delta T=100\text{ K}$	Rated current at $\Delta T=100\text{ K}$	Synchronous motor 1FK7 Compact / 1FK7 High Dynamic Order No.	Number of pole pairs	Moment of rotor inertia (without brake)	Weight (motor without brake)	Efficiency <sup>1)</sup>	Static current at $\Delta T=100\text{ K}$	Calculated power $P_{\text{calc}} = M_0 \times n_N / 9550$	Power connector size	Cable cross-section <sup>2)</sup>
$n_N$ rpm	SH	$P_N$ kW	$M_0$ Nm	$M_N$ Nm	$I_N$ A		J kgcm <sup>2</sup>	m	$\eta$ %	$I_0$ A	$P_{\text{calc}}$ kW		mm <sup>2</sup>	
<b>1FK7 Compact for DC-Link 270 V to 330 V (line voltage 200-240 V 1 AC)</b>														
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
<b>1FK7 High Dynamic for DC-Link 270 V to 330 V (line voltage 200-240 V 1 AC)</b>														
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:

1FK7 . . . . . A	without	Fitted key and keyway
1FK7 . . . . . B	with	Fitted key and keyway
1FK7 . . . . . G	without	Plain shaft
1FK7 . . . . . H	with	Plain shaft

### Shaft:

### Degree of protection:

1FK7 . . . . . 0	IP64
1FK7 . . . . . 1	IP65
1FK7 . . . . . 2	IP65 and DE-Flange IP67

<sup>1)</sup> Optimum efficiency at continuous load

<sup>2)</sup> 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.