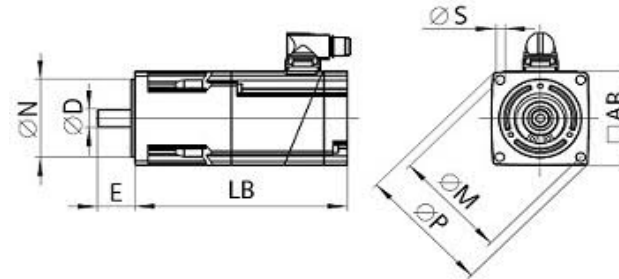


SINAMICS S210 Servo drive system for mains supply 1AC 200 - 240V

SIMOTICS S-1FK2 Servo motor <small>(Data in brackets for motors with holding brake)</small>										Mechanical Data					SINAMICS S210			Motion Connect				
Rated data for 1AC 230V															assigned converter			assigned OCC cable				
Shaft height	M ₀ Nm	M _{max} Nm	l ₀ A	n _{max} U/min	J kg cm ²	n _{rated} U/min	M _{rated} Nm	P _{rated} kW	Order number	□AB mm	∅N mm	∅M mm	Shaft ∅D x E mm	LB mm	Weight kg	I _{rated} A	P _{rated} kW	Order number	Order number	Connector		
High Dynamic										1FK21...					6SL3210-5HB10-...			6FX5002-8Q...		Connector		
20	0,16	0,56	0,75	8000	0,025 (0,029)	3.000	0,16	0,05	...02-0AG □ □ - □ □ A0	40	30	46	8x20	90 (121)	0,47 (0,73)	0,8	0,1	...1UF0	...N04 -1 □ □ □ M12			
	0,32	1,11	0,76	8000	0,036 (0,040)	3.000	0,32	0,1	...02-1AG □ □ - □ □ A0					106 (137)	0,60 (0,86)						...2UF0	
30	0,64	1,95	1,36	8000	0,093 (0,11)	3.000	0,64	0,2	...03-2AG □ □ - □ □ A0	60	50	70	alternatively 14x30 o. 11x23	99 (131)	1,16 (1,66)	1,36	0,2	...2UF0			...N04 -1 □ □ □ M12	
	1,27	4,05	2,4	7300	0,14 (0,16)	3.000	1,27	0,4	...03-4AG □ □ - □ □ A0					123 (155)	1,63 (2,15)							
40	1,3	3,9	2,4	7500	0,35 (0,43)	3.000	1,27	0,4	...04-4AK □ □ - □ □ A0	80	70	90	19x40	98 (142)	2,05 (2,90)	2,4	0,4	...4UF0	...N08 -1 □ □ □ M17			
	2,4	7,6	4,4	7100	0,56 (0,65)	3.000	2,4	0,75	...04-5AK □ □ - □ □ A0					126 (170)	2,85 (3,70)							
Compact										1FK22...					6SL3210-5HB10-...			6FX5002-8Q...			Connector	
30	0,64	1,9	1,38	8000	0,20 (0,22)	3.000	0,64	0,2	...03-2AG □ □ - □ □ A0	60	50	70	alternatively 14x30 o. 11x23	99 (131)	1,10 (1,60)	1,4	0,2	...2UF0			...N04 -1 □ □ □ M12	
	1,27	3,8	2,52	7800	0,35 (0,37)	3.000	1,27	0,4	...03-4AG □ □ - □ □ A0					123 (155)	1,57 (2,10)				2,4	0,4		
40	2,4	7,1	4,4	7500	1,11 (1,19)	3.000	2,4	0,75	...04-5AK □ □ - □ □ A0	80	70	90	19x40	126 (170)	2,90 (3,75)	4,4	0,75	...8UF0	...N08 -1 □ □ □ M17			

Holding brake	
without Brake	0
with Brake	1
Degree of protection	
IP64 (without shaft sealing ring)	0
IP65 (with shaft sealing ring)	1
Shaft extension, feather key	
Plain shaft	0
Shaft with feather key	1
For SH30: Plain shaft: ∅11x23mm	2
Encoder	
Absolute encoder 22 Bit singleturn	S
Absolute encoder 22 Bit + 12 bit multiturn	M



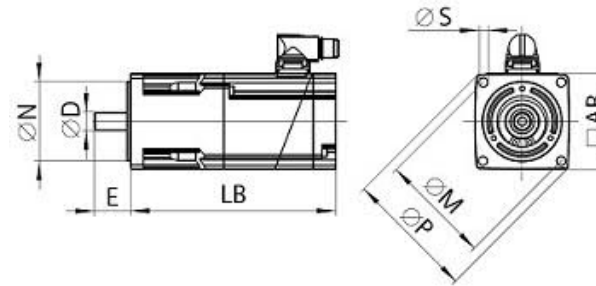
Length code	
0 meter	A
10 meter	B
20 meter	C
30 meter	D
40 meter	E
50 meter	F
+	
0 meter	A
1 meter	B
2 meter	C
...	...
9 meter	K
+	
0,0 meter	0
0,1 meter	1
0,2 meter	2
...	...
0,8 meter	8

MC800PLUS for use with cable carriers: 6FX8002-8Q...

SINAMICS S210 Servo drive system for mains supply 3AC 380 - 480V

SIMOTICS S-1FK2 Servo motor (Data in brackets for motors with holding brake)										Mechanical Data					SINAMICS S210			Motion Connect		
Rated data for 3AC 400V															assigned converter			assigned OCC cable		
Shaft height	M ₀ Nm	M _{max} Nm	l ₀ A	n _{max} U/min	J kg cm ²	n _{rated} U/min	M _{rated} Nm	P _{rated} kW	Order number	□AB mm	∅N mm	∅M mm	Shaft ∅D x E mm	LB mm	Weight kg	I _{rated} A	P _{rated} kW	Order number	Order number	Connector
High Dynamic										1FK21...					6SL3210-5HE1...			6FX5002-8Q...		Connector
40	1,3	4,1	1,19	7200	0,35 (0,43)	3000	1,27	0,40	...04-4AF □ □ - □ □ A0	80	70	90	19x40	98 (142)	2,05 (2,90)	1,2	0,40	...0-4UF0	...N08 -1 □ □ □ M17	
	2,4	7,6	2,1	6700	0,56 (0,65)	3000	2,4	0,75	...04-5AF □ □ - □ □ A0					126 (170)	2,85 (3,70)	2,3	0,75	...0-8UF0		
	3,2	10,1	3,0	7200	0,76 (0,86)	3000	3,2	1,0	...04-6AF □ □ - □ □ A0					144 (188)	3,40 (4,25)	3,0	1,0	...1-0UF0		
Compact										1FK22...					6SL3210-5HE1...			6FX5002-8Q...		Connector
40	2,4	7,6	2,1	8000	1,11 (1,19)	3000	2,4	0,75	...04-5AF □ □ - □ □ A0	80	70	90	19x40	126 (170)	2,90 (3,75)	2,3	0,75	...0-8UF0	...N08 -1 □ □ □ M17	
	3,2	10,9	2,9	8000	1,45 (1,53)	3000	3,2	1,0	...04-6AF □ □ - □ □ A0					144 (188)	3,50 (4,35)	3,0	1,0	...1-0UF0		

Holding brake	
without Brake	0
with Brake	1
Degree of protection	
IP64 (without shaft sealing ring)	0
IP65 (with shaft sealing ring)	1
Shaft extension, feather key	
Plain shaft	0
Shaft with feather key	1
For SH30: Plain shaft: ∅11x23mm	2
Encoder	
Absolute encoder 22 Bit singleturn	S
Absolute encoder 22 Bit + 12 bit multiturn	M



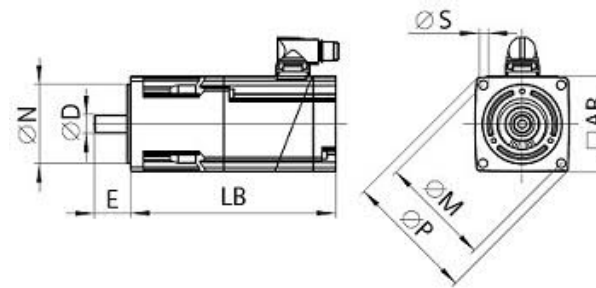
Length code	
0 meter	A
10 meter	B
20 meter	C
30 meter	D
40 meter	E
50 meter	F
+	
0 meter	A
1 meter	B
2 meter	C
...	...
9 meter	K
+	
0,0 meter	0
0,1 meter	1
0,2 meter	2
...	...
0,8 meter	8

MC800PLUS for use with cable carriers: 6FX8002-8Q...

SINAMICS S210 Servo drive system for mains supply 3AC 200 - 240V

SIMOTICS S-1FK2 Servo motor <small>(Data in brackets for motors with holding brake)</small>										Mechanical Data					SINAMICS S210			Motion Connect		
Rated data for 3AC 240V															assigned converter			assigned OCC cable		
Shaft height	M ₀ Nm	M _{max} Nm	l ₀ A	n _{max} U/min	J kg cm ²	n _{rated} U/min	M _{rated} Nm	P _{rated} kW	Order number	□AB mm	∅N mm	∅M mm	Shaft ∅D x E mm	LB mm	Weight kg	I _{rated} A	P _{rated} kW	Order number	Order number	Connector
High Dynamic										1FK21...					6SL3210-5HE1...			6FX5002-8Q...		Connector
20	0,16	0,56	0,75	8000	0,025 (0,029)	3.000	0,16	0,05	...02-0AG □ □ - □ □ A0	40	30	46	8x20	90 (121)	0,47 (0,73)	1,2	0,4	...0-4UF0	...N04 -1 □ □ □	M12
	0,32	1,11	0,76	8000	0,036 (0,040)	3.000	0,32	0,1	...02-1AG □ □ - □ □ A0					106 (137)	0,60 (0,86)					
30	0,64	1,95	1,36	8000	0,093 (0,11)	3.000	0,64	0,20	...03-2AG □ □ - □ □ A0	60	50	70	alternatively 14x30 o. 11x23	99 (131)	1,16 (1,66)	2,3	0,75	...0-8UF0	...N04 -1 □ □ □	M12
	1,27	4,05	2,40	7300	0,139 (0,16)	3.000	1,27	0,4	...03-4AG □ □ - □ □ A0					123 (155)	1,63 (2,15)					
40	1,3	3,9	2,4	7500	0,35 (0,43)	3.000	1,27	0,4	...04-4AK □ □ - □ □ A0	80	70	90	19x40	98 (142)	2,05 (2,90)	3,0	1,0	...1-0UF0	...N08 -1 □ □ □	M17
Compact										1FK22...					6SL3210-5HE1...			6FX5002-8Q...		Connector
30	0,64	1,9	1,4	8000	0,20 (0,22)	3.000	0,64	0,2	...03-2AG □ □ - □ □ A0	60	50	70	alternatively 14x30 o. 11x23	99 (131)	1,10 (1,60)	2,3	0,75	...0-8UF0	...N04 -1 □ □ □	M12
	1,27	3,8	2,5	7800	0,35 (0,37)	3.000	1,27	0,4	...03-4AG □ □ - □ □ A0					123 (155)	1,57 (2,10)					

Holding brake	
without Brake	0
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Degree of protection	
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For SH30: Plain shaft: ∅11x23mm	2
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Absolute encoder 22 Bit singleturn	S
Absolute encoder 22 Bit + 12 bit multiturn	M



Length code	
0 meter	A
10 meter	B
20 meter	C
30 meter	D
40 meter	E
50 meter	F
+	
0 meter	A
1 meter	B
2 meter	C
...	...
9 meter	K
+	
0,0 meter	0
0,1 meter	1
0,2 meter	2
...	...
0,8 meter	8

MC800PLUS for use with cable carriers: 6FX8002-8Q...