

SIMOTICS motors

Dimensional drawings

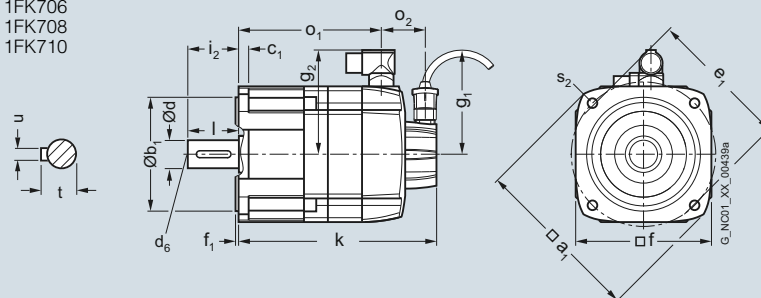
SIMOTICS S-1FK7 Compact synchronous motors with DRIVE-CLiQ – Natural cooling

Dimensional drawings

For motor Dimensions in mm (inches)

Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f AB	f ₁ T	i ₂ –	s ₂ S	Shaft extension DE				
											d D	d ₆ –	l E	t GA	u F
1FK7 Compact, natural cooling, DQI encoder with DRIVE-CLiQ, without/with brake															
63	1FK706.-2A		155 (6.10)	110 (4.33)	10 (0.39)	130 (5.12)	126 (4.96)	3.5 (0.14)	50 (1.97)	9 (0.35)	24 (0.94)	M8	50 (1.97)	27 (1.06)	8 (0.31)
80	1FK708.-2A		194 (7.64)	130 (5.12)	11.5 (0.45)	165 (6.50)	155 (6.10)	3.5 (0.14)	58 (2.28)	11 (0.43)	32 (1.26)	M12	58 (2.28)	35 (1.38)	10 (0.39)
100	1FK710.-2A		245 (9.65)	180 (7.09)	13 (0.51)	215 (8.46)	192 (7.56)	4 (0.16)	80 (3.15)	14 (0.55)	38 (1.50)	M12	80 (3.15)	41 (1.61)	10 (0.39)

Shaft height	Type	DIN IEC	DQI encoder with DRIVE-CLiQ						g ₁ —	g ₂ —
			Without brake			With brake				
			o ₂ —	k LB	o ₁ —	k LB	o ₁ —			
63	1FK7060-2A		50 (1.97)	168 (6.61)	106 (4.17)	203 (7.99)	141 (5.55)	104.5 (4.11)	104 (4.09)	
	1FK7062-2A		50 (1.97)	190 (7.48)	128 (5.04)	226 (8.90)	163 (6.42)	104.5 (4.11)	104 (4.09)	
	1FK7063-2A		50 (1.97)	213 (8.39)	151 (5.94)	248 (9.76)	186 (7.32)	104.5 (4.11)	104 (4.09)	
80	1FK7080-2A		48 (1.89)	171 (6.73)	111 (4.37)	223 (8.78)	163 (6.42)	104.5 (4.11)	119 (4.69)	
	1FK7081-2A		48 (1.89)	190 (7.48)	130 (5.12)	242 (9.53)	182 (7.17)	104.5 (4.11)	119 (4.69)	
	1FK7083-2A		48 (1.89)	209 (8.23)	149 (5.87)	261 (10.28)	201 (7.91)	104.5 (4.11)	119 (4.69)	
	1FK7084-2A		48 (1.89)	229 (9.02)	168 (6.61)	281 (11.06)	221 (8.70)	104.5 (4.11)	119 (4.69)	
100	1FK7100-2A		53 (2.09)	183 (7.20)	118 (4.65)	220 (8.66)	170 (6.69)	104.5 (4.11)	137 (5.39)	
	1FK7101-2A		53 (2.09)	209 (8.23)	144 (5.67)	261 (10.28)	196 (7.72)	104.5 (4.11)	158 (6.22)	
	1FK7103-2A		53 (2.09)	235 (9.25)	170 (6.69)	287 (11.30)	222 (8.74)	104.5 (4.11)	158 (6.22)	
	1FK7105-2A		53 (2.09)	287 (11.30)	222 (8.74)	339 (13.35)	274 (10.79)	104.5 (4.11)	158 (6.22)	

1FK706
1FK708
1FK710

Dimensional drawings

For motor		Dimensions in mm (inches)									Shaft extension DE					
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f AB	f ₁ T	i ₂ –	s ₂ S	d D	d ₆ –	l E	t GA	u F	
1FK7 High Inertia, natural cooling, DQI encoder with DRIVE-CLiQ, without/with brake																
48	1FK704.-3B		120 (4.72)	80 (3.15)	10 (0.39)	100 (3.94)	96 (3.78)	3 (0.12)	40 (1.57)	6.5 (0.26)	19 (0.75)	M6	40 (1.57)	21.5 (0.85)	6 (0.24)	
63	1FK706.-3B		155 (6.10)	110 (4.33)	10 (0.39)	130 (5.12)	126 (4.96)	3.5 (0.14)	50 (1.97)	9 (0.35)	24 (0.94)	M8	50 (1.97)	27 (1.06)	8 (0.31)	
80	1FK708.-3B		194 (7.64)	130 (5.12)	11.5 (0.45)	165 (6.50)	155 (6.10)	3.5 (0.14)	58 (2.28)	11 (0.43)	32 (1.26)	M12	58 (2.28)	35 (1.38)	10 (0.38)	

Shaft height	Type	DIN IEC	DQI encoder with DRIVE-CLiQ					
			Without brake			With brake		
			o ₂ –	k LB	o ₁ –	k LB	o ₁ –	g ₁ –
48	1FK7042-3B		50 (1.97)	187 (7.36)	125 (4.92)	219 (8.62)	157 (6.18)	104.5 (4.11)
63	1FK7060-3B		50 (1.97)	182 (7.17)	120 (4.72)	217 (8.54)	155 (6.10)	104.5 (4.11)
	1FK7062-3B		50 (1.97)	216 (8.50)	153 (6.02)	251 (9.88)	189 (7.44)	104.5 (4.11)
80	1FK7081-3B		48 (1.89)	211 (8.31)	151 (5.94)	264 (10.39)	203 (7.99)	104.5 (4.11)
	1FK7084-3B		48 (1.89)	270 (10.63)	209 (8.23)	322 (12.68)	262 (10.31)	104.5 (4.11)

1FK704
1FK706
1FK708

