

Synchronous motors

Dimension drawings

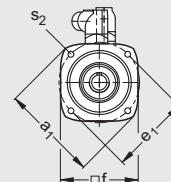
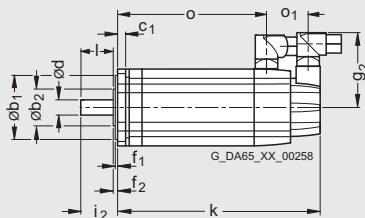
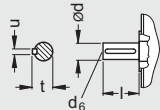
1FT7 Compact motors with/without DRIVE-CLiQ Natural cooling

For motor		Dimensions in mm (in)											Flange 1 (1FT6-compatible)			
Shaft height	Type	DIN IEC	a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f AB	f ₁ T	g ₂ —	o ₁ —	s ₂ S	i ₂ —	without brake		with brake	
													k LB	o —	k LB	o —
1FT7 Compact, type IM B5, natural cooling, with connector, with/without brake																
36	1FT7034		90 (3.54)	60 (2.36)	8 (0.31)	75 (2.95)	72 (2.83)	3 (0.12)	80 (3.15)	48 (1.89)	6.5 (0.26)	30 (1.18)	195 (7.68)	133 (5.24)	222 (8.74)	160 (6.30)
	1FT7036												243 (9.57)	181 (7.13)	270 (10.63)	208 (8.19)
48	1FT7042		120 (4.72)	80 (3.15)	10 (0.39)	100 (3.94)	96 (3.78)	3 (0.12)	93 (3.66)	53 (2.09)	6.5 (0.26)	40 (1.57)	169 (6.65)	102 (4.02)	201 (7.91)	134 (5.28)
	1FT7044												219 (8.62)	152 (5.98)	251 (9.88)	184 (7.24)
	1FT7046												259 (10.20)	192 (7.56)	291 (11.46)	224 (8.82)
63	1FT7062		155 (6.10)	110 (4.33)	10 (0.39)	130 (5.12)	126 (4.96)	3.5 (0.14)	104 (4.09)	53 (2.09)	9 (0.35)	50 (1.97)	173 (6.81)	106 (4.17)	208 (8.19)	141 (5.55)
	1FT7064												205 (8.07)	137 (5.39)	240 (9.45)	173 (6.81)
	1FT7066												236 (9.29)	169 (6.65)	272 (10.71)	204 (8.03)
	1FT7068												284 (11.18)	216 (8.50)	319 (12.56)	252 (9.92)

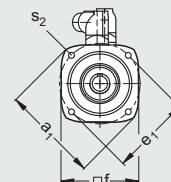
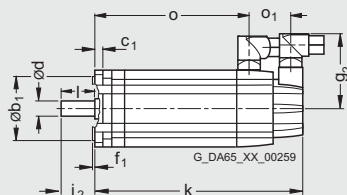
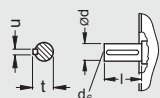
		Flange 0			without brake		with brake		DE shaft extension						
Shaft height	Type	DIN IEC	b ₂ —	i ₂ —	f ₂ —	k LB	o —	k LB	o —	d D	d ₆ —	l E	t GA	u F	
36	1FT7034		36 (1.42)	36.5 (1.44)	5.5 (0.22)	189 (7.44)	127 (5.00)	216 (8.50)	154 (6.06)	14 (0.55)	M5	30 (1.18)	16 (0.63)	5 (0.20)	
	1FT7036					237 (9.33)	175 (6.89)	264 (10.39)	202 (7.95)						
48	1FT7042		46 (1.81)	46 (1.81)	5.5 (0.22)	163 (6.42)	96 (3.78)	195 (7.68)	128 (5.04)	19 (0.75)	M6	40 (1.57)	21.5 (0.85)	6 (0.24)	
	1FT7044					213 (8.39)	146 (5.75)	245 (9.65)	178 (7.01)						
	1FT7046					253 (9.96)	186 (7.32)	285 (11.22)	218 (8.58)						
63	1FT7062		51 (2.01)	56.5 (2.22)	6 (0.24)	167 (6.57)	99 (3.90)	202 (7.95)	135 (5.31)	24 (0.94)	M8	50 (1.97)	27 (1.06)	8 (0.31)	
	1FT7064					198 (7.80)	131 (5.16)	233 (9.17)	166 (6.54)						
	1FT7066					230 (9.06)	162 (6.38)	265 (10.43)	198 (7.80)						
	1FT7068					277 (10.91)	210 (8.27)	312 (12.28)	245 (9.65)						

Flange 0
1FT703
1FT704
1FT706

Shaft design
with fitted key



Flange 1
(1FT6-compatible)
1FT703
1FT704
1FT706



Synchronous motors

Dimension drawings

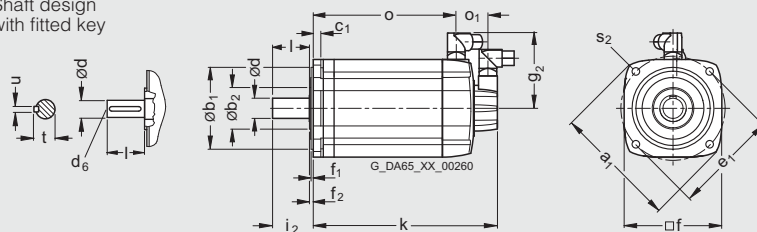
1FT7 Compact motors with/without DRIVE-CLiQ Natural cooling

For motor		Dimensions in mm (in)											Flange 1 (1FT6-compatible)				
Shaft height	Type	DIN IEC												without brake		with brake	
			a ₁ P	b ₁ N	c ₁ LA	e ₁ M	f AB	f ₁ T	g ₂ —	o ₁ —	s ₂ S	i ₂ —	k LB	o —	k LB	o —	
1FT7 Compact, type IM B5, natural cooling, with connector, with/without brake																	
80	1FT7082		195 (7.68)	130 (5.12)	11.5 (0.45)	165 (6.50)	155 (6.10)	3.5 (0.14)	141 (5.55)	51 (2.01)	11 (0.43)	58 (2.28)	196 (7.72)	130 (5.12)	248 (9.76)	183 (7.20)	
	1FT7084												247 (9.72)	182 (7.17)	299 (11.77)	234 (9.21)	
	1FT7086												299 (11.77)	234 (9.21)	351 (13.82)	286 (11.26)	
100	1FT7102		245 (9.65)	180 (7.09)	13 (0.51)	215 (8.46)	196 (7.72)	4 (0.16)	161 (6.34)	56 (2.20)	14 (0.55)	80 (3.15)	221 (8.70)	151 (5.94)	273 (10.75)	203 (7.99)	
	1FT7105												307 (12.09)	238 (9.37)	360 (14.17)	290 (11.42)	
	1FT7108												377 (14.84)	307 (12.09)	429 (16.89)	359 (14.13)	

		Flange 0					DE shaft extension							
Shaft height	Type	DIN IEC	b ₂ —	i ₂ —	f ₂ —	k LB	o —	k LB	o —	d D	d ₆ —	l E	t GA	u F
80	1FT7082		66 (2.60)	64.5 (2.54)	6 (0.24)	189 (7.44)	124 (4.88)	241 (9.49)	176 (6.93)	32 (1.26)	M12	58 (2.28)	35 (1.38)	10 (0.39)
	1FT7084					241 (9.49)	175 (6.89)	293 (11.54)	228 (8.98)					
	1FT7086					292 (11.50)	227 (8.94)	345 (13.58)	279 (10.98)					
100	1FT7102		81 (3.19)	87 (3.43)	6.5 (0.26)	214 (8.43)	144 (5.67)	266 (10.47)	196 (7.72)	38 (1.50)	M12	80 (3.15)	41 (1.61)	10 (0.39)
	1FT7105					301 (11.85)	231 (9.09)	353 (13.90)	283 (11.14)					
	1FT7108					370 (14.57)	300 (11.81)	422 (16.61)	352 (13.86)					

Flange 0
1FT708
1FT710

Shaft design
with fitted key



Flange 1
(1FT6-compatible)
1FT708
1FT710

