

Synchronous motors

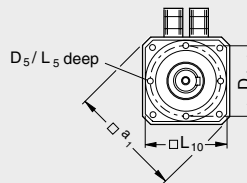
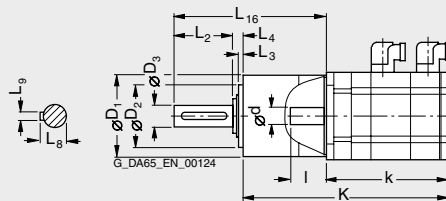
Dimension drawings

1FK7 Compact motors without/with DRIVE-CLiQ with LP+ planetary gearbox, single-stage

For motor			Dimensions in mm (in)														
			Encoder system:				Incremental encoder sin/cos 1 V _{pp}				Absolute encoder EnDat 2048 S/R						
Shaft height	Type	DIN IEC	Resolver		Absolute encoder EnDat 16 S/R		Absolute encoder EnDat 32 S/R		Absolute encoder 16 bit (32 S/R)		Absolute encoder 22 bit (2048 S/R)		Absolute encoder EnDat 512 S/R		Absolute encoder 20 bit (512 S/R)		
			Without brake	With brake	Without brake	With brake	Without brake	With brake	Without brake	With brake	Without brake	With brake	Without brake	With brake			
			k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –	l E	d D	a ₁ P
1FK7 Compact with LP+ planetary gearbox, single-stage, type IM B5, natural cooling, with connector, without/with brake																	
28	1FK7022-5		153 (6.02)	216 (8.50)	175 (6.89)	238 (9.37)	178 (7.01)	241 (9.49)	200 (7.87)	263 (10.35)	178 (7.01)	241 (9.49)	200 (7.87)	263 (10.35)	20 (0.79)	9 (0.35)	-
	1FK7022-5			236 (9.29)		258 (10.16)		261 (10.28)		283 (11.14)		261 (10.28)		283 (11.14)			
36	1FK7032-5		150 (5.91)	240 (9.45)	175 (6.89)	265 (10.43)	175 (6.89)	265 (10.43)	200 (7.87)	290 (11.42)	175 (6.89)	265 (10.43)	200 (7.87)	290 (11.42)	30 (1.18)	14 (0.55)	92 (3.62)
	1FK7034-5		175 (6.89)	265 (10.43)	200 (7.87)	290 (11.42)	200 (7.87)	290 (11.42)	225 (8.86)	315 (12.40)	200 (7.87)	290 (11.42)	225 (8.86)	315 (12.40)			
48	1FK7040-5		135 (5.31)	247 (9.72)	164 (6.46)	276 (10.87)	155 (6.10)	267 (10.51)	184 (7.24)	296 (11.65)	164 (6.46)	276 (10.87)	193 (7.60)	305 (12.01)	40 (1.57)	19 (0.75)	120 (4.72)
	1FK7042-5		162 (6.38)	274 (10.79)	191 (7.52)	303 (11.93)	183 (7.20)	295 (11.61)	212 (8.35)	324 (12.76)	191 (7.52)	303 (11.93)	220 (8.66)	332 (13.07)			
63	1FK7060-5		157 (6.18)	297 (11.69)	200 (7.87)	340 (13.39)	180 (7.09)	320 (12.60)	223 (8.78)	363 (14.29)	188 (7.40)	328 (12.91)	231 (9.09)	371 (14.61)	50 (1.97)	24 (0.94)	155 (6.10)
	1FK7063-5		202 (7.95)	342 (13.46)	245 (9.65)	385 (15.16)	225 (8.86)	365 (14.37)	268 (10.55)	408 (16.06)	233 (9.17)	373 (14.69)	276 (10.87)	416 (16.38)			
80	1FK7080-5		156 (6.14)	325 (12.80)	184 (7.24)	353 (13.90)	179 (7.05)	347 (13.66)	206 (8.11)	375 (14.76)	187 (7.36)	355 (13.98)	215 (8.46)	384 (15.12)	58 (2.28)	32 (1.26)	186 (7.32)
	1FK7083-5		194 (7.64)	363 (14.29)	245 (9.65)	414 (16.30)	217 (8.54)	385 (15.16)	268 (10.55)	436 (17.17)	225 (8.86)	393 (15.47)	276 (10.87)	444 (17.48)			

[illegible]

1FK702.-5
1FK703.-5
1FK704.-5
1FK706.-5
1FK708.-5



Synchronous motors

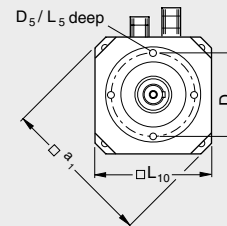
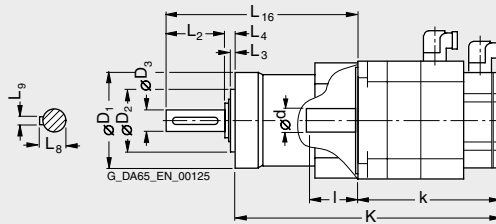
Dimension drawings

1FK7 Compact motors without/with DRIVE-CLiQ with LP+ planetary gearbox, single-stage

For motor			Dimensions in mm (in)														
Shaft height	Type	DIN IEC	Encoder system:														
			Resolver				Incremental encoder sin/cos 1 V _{pp}				Absolute encoder EnDat 2048 S/R						
							Incremental encoder 22 bit (2048 S/R)				Absolute encoder 22 bit (2048 S/R)						
							Absolute encoder EnDat 32 S/R										
							Absolute encoder 16 bit (32 S/R)										
Without brake		With brake		Without brake		With brake		Without brake		With brake				l E	d D	a ₁ P	
k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –				
1FK7 Compact with LP+ planetary gearbox, single-stage, type IM B5, natural cooling, with connector, without/with brake																	
100	1FK7100-5		185 (7.28)	374 (14.72)	204 (8.03)	393 (15.47)	208 (8.19)	396 (15.59)	227 (8.94)	415 (16.34)	216 (8.50)	404 (15.91)	235 (9.25)	423 (16.65)	80 (3.15)	38 (1.50)	240 (9.45)
	1FK7101-5		211 (8.31)	400 (15.75)	240 (9.45)	429 (16.89)	234 (9.21)	422 (16.61)	263 (10.35)	452 (17.80)	242 (9.53)	430 (16.93)	271 (10.67)	460 (18.11)			
	1FK7103-5		237 (9.33)	426 (16.77)	266 (10.47)	455 (17.91)	260 (10.24)	448 (17.64)	289 (11.38)	478 (18.82)	268 (10.55)	456 (17.95)	297 (11.69)	486 (19.13)			
	1FK7105-5		289 (11.38)	478 (18.82)	318 (12.52)	507 (19.96)	312 (12.28)	500 (19.69)	341 (13.43)	530 (20.87)	320 (12.60)	508 (20.00)	349 (13.74)	538 (21.18)			

Shaft height	Type	Planetary gearbox Type														
			D ₁	D ₂	D ₃	D ₄	D ₅	L ₂	L ₃	L ₄	L ₅	L ₈	L ₉	L ₁₀	L ₁₆	
100	1FK710.-5	LP155-M01	155	120	40	140	M10	82	8	15	20	43	12	150	286	
			(6.10)	(4.72)	(1.57)	(5.51)		(3.23)	(0.31)	(0.59)	(0.79)	(1.69)	(0.47)	(5.91)	(11.26)	

1FK710.-5



Synchronous motors

Dimension drawings

1FK7 High Dynamic motors without/with DRIVE-CLiQ with LP+ planetary gearbox, single-stage

For motor			Dimensions in mm (in)														
Shaft height	Type	DIN IEC	Encoder system:														
			Resolver				Incremental encoder sin/cos 1 V _{pp}				Absolute encoder EnDat 2048 S/R						
			Absolute encoder EnDat 16 S/R				Incremental encoder 22 bit (2048 S/R)				Absolute encoder 22 bit (2048 S/R)						
			Absolute encoder 15 bit (16 S/R)				Absolute encoder EnDat 32 S/R				Absolute encoder EnDat 512 S/R						
			Without brake		With brake		Without brake		With brake		Without brake		With brake				
			k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –	k LB	K –	l E	d D	a ₁ P
1FK7 High Dynamic with LP+ planetary gearbox, single-stage, type IM B5, natural cooling, with connector, without/with brake																	
36	1FK7033-7		170 (6.69)	260 (10.24)	195 (7.68)	285 (11.22)	195 (7.68)	285 (11.22)	220 (8.66)	310 (12.20)	195 (7.68)	285 (11.22)	220 (8.66)	310 (12.20)	30 (1.18)	14 (0.55)	92 (3.62)
48	1FK7043-7		191 (7.52)	303 (11.93)	220 (8.66)	332 (13.07)	212 (8.35)	324 (12.76)	240 (9.45)	352 (13.86)	220 (8.66)	332 (13.07)	249 (9.80)	361 (14.21)	40 (1.57)	19 (0.75)	120 (4.72)
	1FK7044-7		216 (8.50)	328 (12.91)	245 (9.65)	357 (14.06)	237 (9.33)	349 (13.74)	265 (10.43)	377 (14.84)	245 (9.65)	357 (14.06)	274 (10.79)	386 (15.20)			
63	1FK7061-7		185 (7.28)	325 (12.80)	228 (8.98)	368 (14.49)	208 (8.19)	348 (13.70)	251 (9.88)	391 (15.39)	217 (8.54)	357 (14.06)	260 (10.24)	400 (15.75)	50 (1.97)	24 (0.94)	155 (6.10)
	1FK7064-7		249 (9.80)	389 (15.31)	292 (11.50)	432 (17.01)	272 (10.71)	412 (16.22)	315 (12.40)	455 (17.91)	281 (11.06)	421 (16.57)	324 (12.76)	464 (18.27)			
80	1FK7085-7		261 (10.28)	430 (16.93)	304 (11.97)	473 (18.62)	284 (11.18)	453 (17.83)	326 (12.83)	495 (19.49)	292 (11.50)	461 (18.15)	335 (13.19)	504 (19.84)	58 (2.28)	32 (1.26)	186 (7.32)
	1FK7086-7																

Shaft height	Type	Planetary gearbox														
		Type	D ₁ —	D ₂ —	D ₃ —	D ₄ —	D ₅ —	L ₂ —	L ₃ —	L ₄ —	L ₅ —	L ₈ —	L ₉ —	L ₁₀ —	L ₁₆ —	
36	1FK7033-7	LP070-M01	70 (2.76)	52 (2.05)	16 (0.63)	62 (2.44)	M5	28 (1.10)	5 (0.20)	8 (0.31)	10 (0.39)	18 (0.71)	5 (0.20)	70 (2.76)	126 (4.96)	
48	1FK7043-7 1FK7044-7	LP090-M01	90 (3.54)	68 (2.68)	22 (0.87)	80 (3.15)	M6	36 (1.42)	5 (0.20)	10 (0.39)	12 (0.47)	25 (0.98)	6 (0.24)	90 (3.54)	158 (6.22)	
63	1FK7061-7 1FK7064-7	LP120-M01	120 (4.72)	90 (3.54)	32 (1.26)	108 (4.25)	M8	58 (2.28)	6 (0.24)	12 (0.47)	16 (0.63)	35 (1.38)	10 (0.39)	120 (4.72)	210 (8.27)	
80	1FK7085-7 1FK7086-7	LP155-M01	155 (6.10)	120 (4.72)	40 (1.57)	140 (5.51)	M10	82 (3.23)	8 (0.31)	15 (0.59)	20 (0.79)	43 (1.69)	12 (0.47)	150 (5.91)	266 (10.47)	

1FK7033-7
1FK7043-7
1FK7061-7
1FK7085-7

