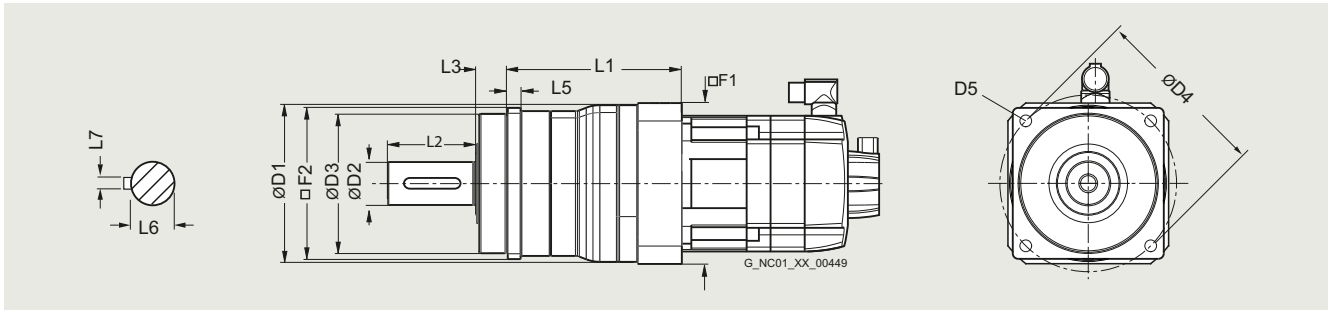


SIMOTICS S servomotors

SIMOTICS S geared motors for SINAMICS S120

Planetary gearbox SP+ series for SIMOTICS S-1FT7

Dimensional drawings



For planetary gearboxes SP+ series on SIMOTICS S-1FT7/S-1FK7 motors

Dimensions in mm (inches)

Planetary gearbox

Type	D2	D3	D4	D5	F2	L2	L3	L5	L6	L7
SIMOTICS S-1FT7 with planetary gearbox SP+ series 1-stage/2-stage										
SP060S-MF1/-MF2	16 (0.63)	60 (2.36)	68 (2.68)	5.5 (0.22)	62 (2.48)	28 (1.10)	20 (0.79)	6 (0.24)	18 (0.71)	5 (0.20)
SP075S-MF1/-MF2	22 (0.87)	70 (2.76)	85 (3.35)	6.6 (0.26)	76 (2.99)	36 (1.42)	20 (0.79)	7 (0.28)	24.5 (0.96)	6 (0.24)
SP100S-MF1/-MF2	32 (1.26)	90 (3.54)	120 (4.72)	9 (0.35)	101 (3.98)	58 (2.28)	30 (1.18)	10 (0.39)	35 (1.38)	10 (0.39)
SP140S-MF1/-MF2	40 (1.57)	130 (5.12)	165 (6.50)	11 (0.43)	141 (5.55)	82 (3.23)	30 (1.18)	12 (0.47)	43 (1.69)	12 (0.47)
SP180S-MF1/-MF2	55 (2.17)	160 (6.30)	215 (8.46)	13.5 (0.53)	182 (7.17)	82 (3.23)	30 (1.18)	15 (0.59)	59 (2.32)	16 (0.63)
SP210S-MF1/-MF2	75 (2.95)	180 (7.09)	250 (9.84)	17 (0.67)	215 (8.46)	105 (4.13)	38 (1.50)	17 (0.67)	79.5 (3.13)	20 (0.79)
SP240S-MF1/-MF2	85 (3.35)	200 (7.87)	290 (11.42)	17 (0.67)	245 (9.65)	130 (5.12)	40 (1.57)	20 (0.79)	90 (3.54)	22 (0.87)

SIMOTICS S servomotors

SIMOTICS S geared motors for SINAMICS S120

Planetary gearbox SP+ series for SIMOTICS S-1FT7**Dimensional drawings**

For planetary gearboxes SP+ series on SIMOTICS S-1FT7/S-1FK7 motors

		Dimensions in mm (inches)					
Planetary gear- box	Motor Type	Planetary gearbox SP+ series 1-stage -MF1			Planetary gearbox SP+ series 2-stage -MF2		
		D1	F1	L1	D1	F1	L1
SIMOTICS S-1FT7 with planetary gearbox SP+ series 1-stage/2-stage							
SP060S-	1FT703/	68 (2.68)	70 (2.76)	94 (3.70)	68 (2.68)	70 (2.76)	116 (4.57)
	1FT704	91 (3.58)	90 (3.54)	106 (4.17)	–	–	–
SP075S-	1FT703	91 (3.58)	90 (3.54)	107.8 (4.24)	95 (3.74)	70 (2.76)	123.4 (4.86)
	1FT704/	91 (3.58)	90 (3.54)	111.5 (4.39)	91 (3.58)	90 (3.54)	135.6 (5.34)
SP100S-	1FT703/	–	–	–	118 (4.65)	90 (3.54)	142.3 (5.60)
	1FT704	115 (4.53)	120 (4.72)	122 (4.80)	118 (4.65)	90 (3.54)	146 (5.75)
	1FT704	115 (4.53)	120 (4.72)	129 (5.08)	115 (4.53)	120 (4.72)	164 (6.46)
SP140S-	1FT704	–	–	–	152 (5.98)	120 (4.72)	186.3 (7.33)
	1FT706	146 (5.75)	150 (5.91)	162.3 (6.39)	152 (5.98)	120 (4.72)	193.3 (7.61)
	1FT708	146 (5.75)	150 (5.91)	171.3 (6.74)	146 (5.75)	150 (5.91)	220 (8.66)
	1FT710	146 (5.75)	190 (7.48)	171.3 (6.74)	–	–	–
SP180S-	1FT706	–	–	–	212 (8.35)	150 (5.91)	234 (9.21)
	1FT708	207 (8.15)	210 (8.27)	198 (7.80)	212 (8.35)	150 (5.91)	242.9 (9.56)
	1FT710	207 (8.15)	210 (8.27)	203.5 (8.01)	212 (8.35)	190 (7.48)	242.9 (9.56)
SP210S-	1FT708	–	–	–	215 (8.46)	210 (8.27)	272 (10.71)
	1FT710	215 (8.46)	190 (7.48)	242 (9.53)	215 (8.46)	210 (8.27)	272 (10.71)
	1FT713	215 (8.46)	260 (7.48)	242 (9.53)	–	–	–
SP240S-	1FT708	–	–	–	245 (9.65)	210 (8.27)	297.5 (11.71)
	1FT710	245 (9.65)	240 (9.45)	273 (10.75)	245 (9.65)	210 (8.27)	297.5 (11.71)
	1FT713	245 (9.65)	260 (9.45)	273 (10.75)	245 (9.65)	260 (8.27)	297.5 (11.71)