

Synchronous motors

Gearboxes

Series SP+ planetary gearbox, single-stage for 1FT6 motors

Technical specifications

Planetary gearbox with 1FT6 motor								
Single-stage Type	Gear ratio	Motor speed	Output torque	Moments of inertia of gearbox (referred to the drive)				
		Continuous duty S1 ¹⁾	1FT602.	1FT603.	1FT604.	1FT606.	1FT608.	1FT610.
		n_{N1} rpm	$M_{N2}(T_{2N})$ Nm (lb _f -ft)	J_1 kgcm ² (lb _f -in ²)				
SP 060S-MF1	4	3300	26 (19.2)	0.15 (0.05)	0.22 (0.08)	–	–	–
	5	3300	26 (19.2)	0.12 (0.04)	0.20 (0.07)	–	–	–
	7	4000	26 (19.2)	0.10 (0.03)	0.18 (0.06)	–	–	–
	10	4000	17 (12.5)	0.09 (0.03)	0.17 (0.06)	–	–	–
SP 075S-MF1	4	2900	75 (55.3)	–	–	0.78 (0.27)	–	–
	5	2900	75 (55.3)	–	–	0.68 (0.23)	–	–
	7	3100	75 (55.3)	–	–	0.59 (0.20)	–	–
	10	3100	52 (38.3)	–	0.38 (0.13)	0.54 (0.19)	–	–
SP 100S-MF1	4	2500	180 (132)	–	–	–	3.04 (1.04)	–
	5	2500	175 (129)	–	–	–	2.61 (0.89)	–
	7	2800	170 (125)	–	–	–	2.29 (0.78)	–
	10	2800	120 (88.5)	–	–	–	2.07 (0.71)	–
SP 140S-MF1	4	2100	360 (266)	–	–	–	–	11.0 (3.67)
	5	2100	360 (266)	–	–	–	–	9.95 (3.40)
	7	2600	360 (266)	–	–	–	–	9.01 (3.08)
	10	2600	220 (162)	–	–	–	–	8.44 (2.88)
SP 180S-MF1	4	1500	750 (553)	–	–	–	–	33.9 (11.6)
	5	1500	750 (553)	–	–	–	–	27.9 (9.53)
	7	2300	750 (553)	–	–	–	–	22.2 (7.59)
	10	2300	750 (553)	–	–	–	–	19.2 (6.56)
SP 210S-MF1	4	1200	1500 (1106)	–	–	–	–	–
	5	1500	1500 (1106)	–	–	–	–	–
	7	1700	1400 (1033)	–	–	–	–	–
	10	2000	1000 (738)	–	–	–	–	53.1 (18.1)
SP 240S-MF1	10	1700	1300 (959)	–	–	–	–	53.1 (18.1)

¹⁾ The limit values in the table apply for S1 continuous duty (ON time > 60 % or > 20 min) for a maximum gearbox temperature of 90 °C (194 °F).

