



servomotors 1FL6042-1AF61-2AA1

URL: <https://www.sxplc.com/servomotors-1fl6042-1af61-2aa1>

Product data sheet

SIMOTICS S-1FL6 servomotors		
	Low Inertia	High Inertia
Shaft height	20, 30, 40, 50	45, 65, 90
Rated torque	0.16 Nm ... 6.37 Nm	1.27 Nm ... 33.4 Nm
Rated speed	3000 rpm	2000 rpm/3000 rpm
Maximum speed	5000 rpm	4000 rpm
Encoders, integrated	<ul style="list-style-type: none"> • Incremental encoder 2500 S/R • Absolute encoder 21-bit single-turn • Absolute encoder 20-bit single-turn + 12-bit multi-turn 	<ul style="list-style-type: none"> • Incremental encoder 2500 S/R • Absolute encoder 20-bit single-turn + 12-bit multi-turn
Additional advantages	<ul style="list-style-type: none"> • High dynamic performance High acceleration for shorter cycle times as a result of the very low moment of inertia • High speed Maximum speed up to 5000 rpm can increase machine productivity • Compact size The reduced motor length/height compared to High Inertia variants and compact drive size can address critical mounting requirements. 	<ul style="list-style-type: none"> • Smooth operation Higher torque accuracy and low speed ripple as a result of the higher moment of inertia ensures a better product quality. • Robust design High-quality metal connector and standard motor oil seal can withstand harsh environment. • Sufficient torque output Wide range of rated torques up to 33.4 Nm

