Low Voltage Synchronous Servo Motors Series SM



The low-voltage synchronous servomotors from the SM series are brushless, rotary current motors with have permanent magnets in the rotor and threephase windings for special servo applications. The neodymium magnet material and the low inertial moment contribute significantly to making these motors highly dynamic and allow them to have a very low cogging. The robust and compact motor with high power density is available in three performance classes 60, 100 and 200 watts.

Motors are available in two flange sizes with idling torques from 0.2 to 0.68 Nm and peak torques of up to 1.8 Nm.

Motor and sensor cables in standard 1.5 m/3 m/5 m/10 m lengths can also be obtained.

Standard configuration:

Shaft with keyway, IP65 protection, 2-pin optical incremental encoder (2500 ppr)

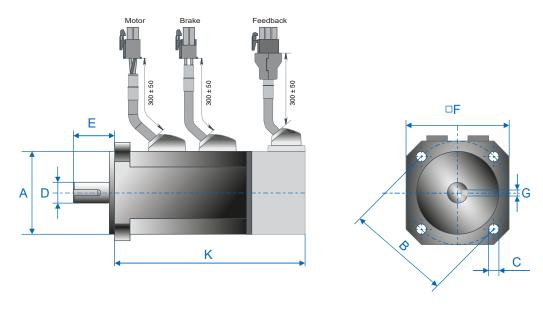
Optional:

Holding brake

Technic	al Dat	a														
Motor						Motor	or - Data						Brake - Data			Drive DC 062
	Motor standstill torque	Rated torque	Peak torque	Rated rotation speed	Rated power	Standstill current	Rated current	Peak current	Torque constant	Rotor inertial torque	Flange size	Motor weight	Holding torque	Inertial torque of the holding brake	Holding brake weight	Rated supply voltage 24–48 V DC
	M _o (Nm)	M _n (Nm)	M _{Omax} (Nm)	n _n (min ⁻¹)	P _n (kW)	I _o (A)	I, (A)	I _{max} (A)	K _T (Nm/A)	J (kgcm²)	L (mm)	m (kg)	M _{br} (Nm)	J _{br} (Kgcm²)	m _{br} (kg)	

Series S	SM															
SM0401	0.2	0.19	0.46	3000	0.06	5.7	5.4	13.5	0.035	0.0232	40	0.4	0.35	0.048	0.25	Х
SM0402	0.34	0.32	0.91	3000	0.1	5.6	5.2	15.6	0.061	0.0422	40	0.55	0.35	0.048	0.25	Х
SM0601	0.68	0.64	1.8	3000	0.2	5.2	4.9	15	0.133	0.094	60	1.1	2	0.046	0.5	Х

Servo Motors Mechanical Dimensions SM



Mechanical Dimensions													
Motor type	А	В	С	D	E	F	G	K (without brake)	K (with) brake				
SM Series													
SM0401	30h7	46	4.2	8h6	25	40	3h9	92	129				
SM0402	30h7	46	4.2	8h6	25	40	3h9	109	147				
SM0601	50h7	70	5.5	14h6	30	60	5h9	98	138				

Order Code

