

Flat DC-Micromotors

3 mNm

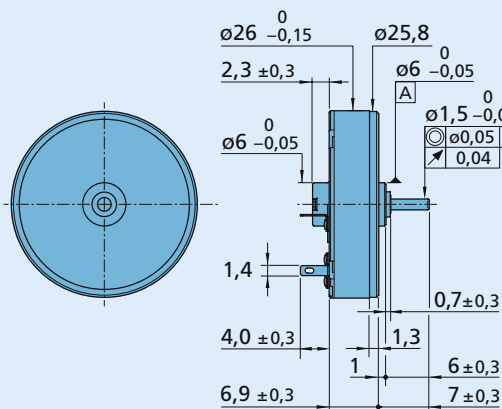
Precious Metal Commutation

Series 2607 ... SR

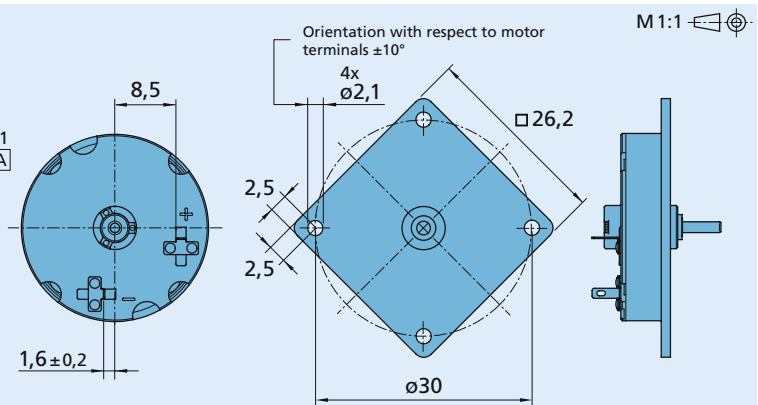
	2607 T	006 SR	012 SR	024 SR	
Nominal voltage	U _N	6	12	24	Volt
Terminal resistance	R	8,2	36,5	128	Ω
Output power	P _{2 max.}	1,08	0,97	1,1	W
Efficiency	η _{max.}	81	80	81	%
No-load speed	n ₀	6 600	5 900	6 200	rpm
No-load current (with shaft ø 1,5 mm)	I ₀	0,007	0,004	0,002	A
Stall torque	M _H	6,26	6,21	6,77	mNm
Friction torque	M _R	0,06	0,07	0,07	mNm
Speed constant	k _n	1 111	500	261	rpm/V
Back-EMF constant	k _E	0,9	2	3,83	mV/rpm
Torque constant	k _M	8,59	19,09	36,54	mNm/A
Current constant	k _I	0,116	0,052	0,027	A/mNm
Slope of n-M curve	Δn/ΔM	1 055	957	917	rpm/mNm
Rotor inductance	L	465	2 200	8 400	μH
Mechanical time constant	τ _m	7,5	6,8	6,5	ms
Rotor inertia	J	0,68	0,68	0,68	gcm ²
Angular acceleration	α _{max.}	92	92	100	·10 ³ rad/s ²
Thermal resistance	R _{th 1} / R _{th 2}	2,7 / 24,45			K/W
Thermal time constant	τ _{w1} / τ _{w2}	1,8 / 163			s
Operating temperature range:					
- motor		- 30 ... + 80			°C
- rotor, max. permissible		+100			°C
Shaft bearings		sintered sleeves bearings (standard)	ball bearings (optional)		
Shaft load max.:					
- with shaft diameter		1,5	1,5		mm
- radial at 3000 rpm (3 mm from bearing)		1,2	5		N
- axial at 3000 rpm		0,2	0,5		N
- axial at standstill		20	10		N
Shaft play:					
- radial	≤	0,03	0,015		mm
- axial	≤	0,2	0,2		mm
Housing material		plastic			
Weight		16,1			g
Direction of rotation		clockwise, viewed from the front face			

Recommended values - mathematically independent of each other

	n _{e max.}	5 500	5 500	5 500	rpm
Speed up to					
Torque up to	M _{e max.}	3	3	3	mNm
Current up to (thermal limits)	I _{e max.}	0,348	0,156	0,081	A



2607 T ... SR



2607 T ... SR 3697