

DC-Gearmotors

100 mNm

Precious Metal Commutation

Series 2619 ... SR

	2619 S	006 SR	012 SR	024 SR	
Nominal voltage	U_N	6	12	24	Volt
Terminal resistance	R	9,2	35,7	135,6	Ω
Output power	$P_{2 \max}$	1,08	0,97	1,1	W
No-load speed (motor)	n_0	6 600	5 900	6 200	rpm
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	$\Delta n/\Delta M$	1 055	957	917	rpm/mNm
Rotor inductance	L	465	2 200	8 400	μH
Rotor inertia	J	0,68	0,68	0,68	gcm^2

Housing material	plastic		
Geartrain material	metal		
Backlash, at no-load	\leq	4	$^{\circ}$
Bearings on output shaft	brass / ceramic bearings	ball bearings	
Shaft load max.:	(standard)	(optional)	
- radial (5 mm from mounting face)	\leq	3,5	10,5
- axial	\leq	2	5
Shaft press fit force, max.	\leq	10	10
Shaft play:			
- radial (5 mm from mounting face)	\leq	0,07	0,03
- axial	\leq	0,25	0,25
Operating temperature range		- 25 ... + 80	$^{\circ}C$

Specifications

reduction ratio (rounded)	output speed up to n_{\max} rpm	weight with motor g	output torque		direction of rotation (reversible)	efficiency %
			continuous operation M_{\max} mNm	intermittent operation M_{\max} mNm		
8 : 1	635	25	9	30	=	81
22 : 1	223	26	23	75	=	73
33 : 1	151	26	30	100	=	60
112 : 1	44	27	93	180	=	59
207 : 1	24	27	100	180	=	53
361 : 1	14	27	100	180	=	53
814 : 1	6	28	100	180	=	43
1 257 : 1	4	29	100	180	=	43

