

# DC-Gearmotors

100 mNm

## Precious Metal Commutation

### Series 2619 ... SR

	2619 S	006 SR	012 SR	024 SR	
Nominal voltage	U <sub>N</sub>	6	12	24	Volt
Terminal resistance	R	8,2	36,5	128	Ω
Output power	P <sub>2 max.</sub>	1,08	0,97	1,1	W
No-load speed (motor)	n <sub>0</sub>	6 600	5 900	6 200	rpm
Speed constant	k <sub>n</sub>	1 111	500	261	rpm/V
Back-EMF constant	k <sub>E</sub>	0,9	2	3,83	mV/rpm
Torque constant	k <sub>M</sub>	8,59	19,09	36,54	mNm/A
Current constant	k <sub>I</sub>	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
Rotor inertia	J	0,68	0,68	0,68	gcm <sup>2</sup>

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

### Specifications

reduction ratio (rounded)	output speed up to n <sub>max</sub> rpm	weight with motor g	output torque		direction of rotation (reversible)	efficiency %
			continuous operation M <sub>max</sub> mNm	intermittent operation M <sub>max</sub> mNm		
8 : 1	635	25	9	30	=	81
22 : 1	223	26	23	75	≠	73
33 : 1	151	26	30	100	=	66
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

**Note:** output speed at 5000 rpm input speed. Based on motor 2607 ... SR.

