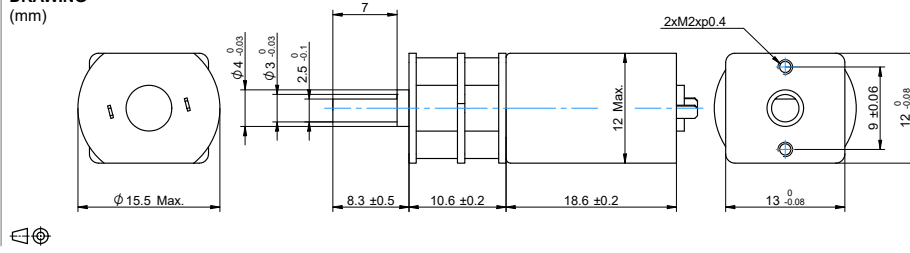


# SDS1319 / Ø 13mm / 0.39W / 0.4W

## DRAWING (mm)



## PHOTO



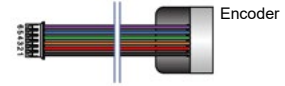
## MODEL NO. DESIGNATION

SDS1319 - VOLTAGE - REDUCTION - F - E

Example: SDS1319-6-10

F = EMC Filter  
E = Encoder

## ADDITIONAL



GEAR MOTOR DATA											
Reduction	10:1	21:1	34:1	59:1	75:1	105:1	146:1	203:1	257:1	294:1	360:1
Nominal torque 6 V (mNm) *	2.9	5.9	9.8	15.2	19.6	26.5	33.4	46.1	58.9	67.7	82.4
Nominal speed 6 V (rpm) *	950	445	270	160	125	91	65	47	37	32	26
Nominal torque 12 V (mNm) *	3.4	6.9	10.8	17.2	21.6	30.4	37.3	52	66.7	76.5	93.2
Nominal speed 12 V (rpm) *	870	400	255	145	116	83	59	43	34	29	24
Length (mm)	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
Weight (g)	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3

\* Nominal speed and nominal torque have a tolerance of ± 15%

GEAR HEAD DATA											
Reduction	10:1	21:1	34:1	59:1	75:1	105:1	146:1	203:1	257:1	294:1	360:1
Max. continuous torque (mNm)	19.62	29.43	29.43	49.05	49.05	78.48	78.48	98.1	98.1	98.1	98.1
Intermittently permissible torque (mNm)	58.86	88.29	88.29	147.15	147.15	235.44	235.44	294.3	294.3	294.3	294.3
Efficiency (%)	81	73	73	66	66	66	59	59	59	59	59
Length (mm)	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
Height (mm)	3.4	2.4	2.4	3.4	3.4	3.4	2.4	2.4	2.4	2.4	2.4
Weight (g)	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3

GEAR MOTOR FEATURES AND STANDARD DATA		
	STANDARD	CUSTOMIZATION OPTIONS
Type	Spur geared brush DC motor	
Motor type	Iron core, commutation	Winding parameters
Motor terminals	Soldering ears	Wiring harnesses, cables and connectors
EMC filter	No	
Gears	Metal	
Motor pinion gear	Copper	
Bearing	Sleeve	
Shaft	Hardened stainless steel	Dimensions
Encoder option	Magnetic encoder (to order as option)	Through shaft dimensions
Operating temperature	-10-...+60 °C	-40-...+60 °C
Backlash no load	≤ 1.5°	
Radial load 5 mm from gear flange	≤ 3.9 N	
Shaft axial load	≤ 1.96 N	
Shaft press fit force max.	≤ 19.6 N	
Radial play	≤ 0.06 mm	
Thrust play	≤ 0.2 mm	
Manufacturing quality standards	ISO 9001	
RoHS compliance	Yes	
CE label	No	Yes
UL approval	No	Yes

MOTOR DATA		
Nominal voltage (V)	6	12
No load speed (rpm)	11500	11700
No load current (mA)	≤ 50	≤ 30
Nominal speed (rpm)	9600	8750
Nominal torque (mNm)	0.39	4.4
Nominal current (mA)	≤ 140	≤ 100
Stall torque (mNm)	2.3	1.7
Starting current (A)	0.5	0.3
Output (W)	0.39	0.4
Length (mm)	18.6	18.6
Weight (g)	10	10