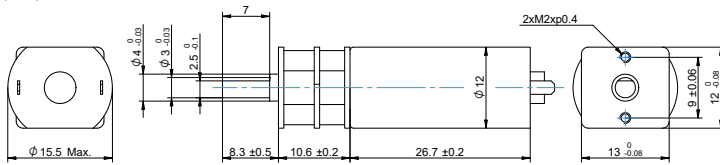
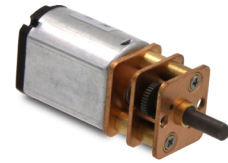


DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

SDS1327 - VOLTAGE - GEAR RATIO - F E

Example: SDS1327-6-10-FE

ACCESSORIES



● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

GEAR MOTOR DATA

		10:1	21:1	34:1	59:1	75:1	105:1	146:1	203:1	257:1	294:1	360:1
Gear ratio		10:1	21:1	34:1	59:1	75:1	105:1	146:1	203:1	257:1	294:1	360:1
Nominal torque   ^ gearbox limit	mNm	5.4	11	18	28	36	50	62	86	98^	98^	98^
Nominal speed	rpm	660	300	190	110	86	62	44	32	25	23	19
Peak torque	mNm	59	88	88	150	150	240	240	290	290	290	290
Nominal power	W	0.37	0.35	0.35	0.32	0.32	0.32	0.29	0.29	0.26	0.24	0.19
Gearbox efficiency	%	81	73	73	66	66	66	59	59	59	59	59
Gearbox length   L	mm	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	11
Weight	g	23	23	23	23	23	23	23	23	23	23	23

OTHER GEAR MOTOR DATA

Service life	h	500	
Performance tolerances	%	±15	
Operating temperature	°C	-10 to 60	●
IP rating		IP20	
Manufacturing standard		ISO 9001   ISO 14001   TS 16949	
CE label   UL label		No   No	●

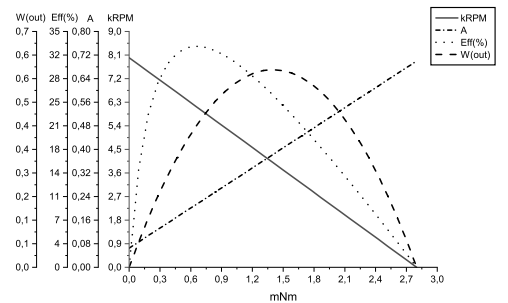
GEARBOX DATA

Backlash no load	°	≤ 1.5	
Radial load	N	≤ 3.9	
Shaft axial load	N	≤ 2	
Shaft press fit force max.	N	≤ 20	
Radial play <sup>1</sup>	mm	≤ 0.06	
Thrust play	mm	≤ 0.2	
Bearing type		Sleeve bearing	
Shaft material		Carbon steel AISI 1144	
Motor pinion material		Bronze	●
Motor pinion shape		Straight	
Material gear stage <sup>2</sup>		Bronze, steel	●
Direction of rotation		CW or CCW by reversed V polarity	
Assembly front bell	mm	0.8	

BRUSHED DC MOTOR DATA

Nominal voltage	V	6
No load speed	rpm	8000
No load current	mA	≤ 65
Nominal speed	rpm	6600
Nominal torque	mNm	0.7
Nominal current	mA	≤ 160
Nominal power	W	0.5
Stall torque	mNm	2.8
Starting current	A	0.7
Motor commutation		Prec.m. <sup>3</sup>
Motor rotor		Iron
Motor stator		Ferr.m. <sup>4</sup>
Varistor EMC	V	9 - 14
Capacitor EMC	V	None
Resistance	Ω	10
Inductance	mH	2.7
Insulation class		B

BRUSHED DC MOTOR DATA GRAPH



NOTES

- 1.5 mm from gear flange.
- Contact us for information regarding gear stage material of a specific gear ratio.
- Precious metal.
- Ferrite magnet.

MAGNETIC ENCODER DATA

Pulses per revolution		3 x 2	●
Channels		2	
Phase shift	°	90 ± (1/6)T	
Encoder rear cover material		None	
Sensor technical data		Refer externally to brand and part UTC-SK1816.	
Size	mm	Diameter 7   Length 6	
Harness connector		JST ZHR-6 P=1.5-6P	●
Harness cable		AWG26   UL1061	●
Harness length	mm	100	
Connection		BLK M-   RED M+   BRN Vcc   GRN GND   BLU A   VIO B	
Supply voltage	V	Min. 5   Max. 20	
Supply current	mA	Ref. 5   Max. 10	
Open collector output		Requires external output resistors.	
Output current per channel	mA	-	