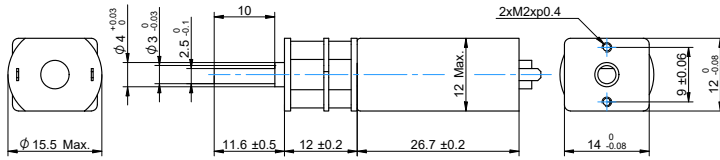
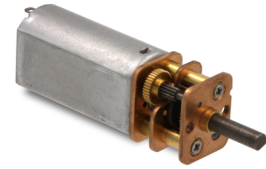


DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

SDS1427 - VOLTAGE - GEAR RATIO - F E

Example: SDS1427-24-10-FE

ACCESSORIES

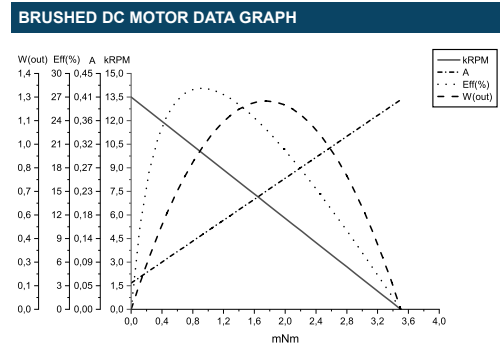


● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

GEAR MOTOR DATA		C				
Gear ratio		6:1	36:1	62:1	123:1	209:1
Nominal torque   ^ gearbox limit	mNm	3.9	16	19	23	26
Nominal speed	rpm	1800	300	180	89	53
Peak torque	mNm	59	88	150	240	290
Nominal power	W	0.74	0.50	0.36	0.21	0.14
Gearbox efficiency	%	81	66	66	59	59
Gearbox length   L	mm	12	12	12	12	12
Weight	g	24	24	24	24	24

OTHER GEAR MOTOR DATA		C
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 ●

BRUSHED DC MOTOR DATA		C
Nominal voltage	V	24
No load speed	rpm	14000
No load current	mA	≤ 50
Nominal speed	rpm	11000
Nominal torque	mNm	0.88
Nominal current	mA	≤ 90
Nominal power	W	1
Stall torque	mNm	3.5
Starting current	A	0.4
Motor commutation		Prec.m. <sup>3</sup>
Motor rotor		Iron
Motor stator		Ferr.m. <sup>4</sup>
Varistor EMC	V	30 - 50
Capacitor EMC	V	None
Resistance	Ω	75
Inductance	mH	16
Insulation class		B



GEARBOX DATA		C
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	1.0

- 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		C
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	-