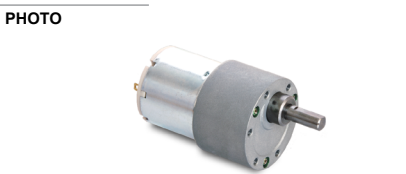
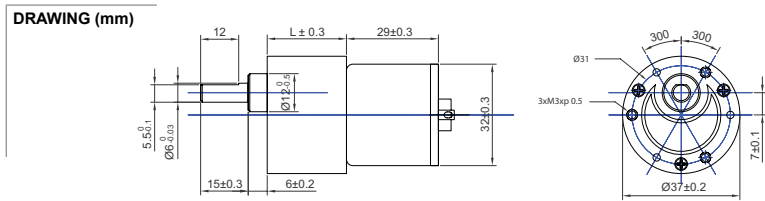


SD3729 | Ø 37 mm | 12 V | BRUSHED DC SPUR GEAR MOTOR



MODEL NO. DESIGNATION

SD3729

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VOLTAGE

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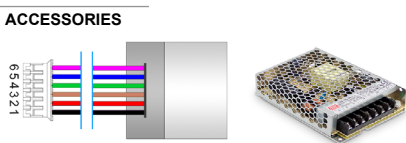
GEAR RATIO

 -

F

EC

Example: SD3729-12-10-FEC

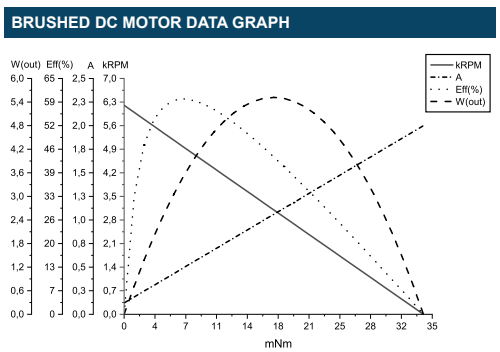


● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

GEAR MOTOR DATA																						C
Gear ratio		10:1	18:1	30:1	50:1	60:1	75:1	90:1	100:1	120:1	150:1	180:1	200:1	250:1	300:1	500:1	600:1	750:1	1000:1	1500:1	3000:1	
Nominal torque ^ gearbox limit		mNm	48	78	130	200	230	290	350	390	420	520	590^	590^	590^	590^	590^	590^	590^	590^	590^	
Nominal speed		rpm	490	270	170	100	84	67	57	51	43	34	29	26	22	19	11	9.5	8	6	4.1	2
Peak torque		mNm	290	290	590	880	880	1200	1200	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	
Nominal power		W	2.5	2.2	2.3	2.1	2.0	2.0	2.1	2.1	1.9	1.9	1.8	1.6	1.4	1.2	0.68	0.59	0.49	0.37	0.25	0.12
Gearbox efficiency		%	81	73	73	66	66	66	66	66	59	59	59	59	59	59	53	53	53	53	48	48
Gearbox length L		mm	19.5	22	22	24.5	24.5	24.5	24.5	24.5	27	27	27	27	27	27	29.5	29.5	29.5	29.5	32	32
Weight		g	160	170	170	180	180	180	180	180	180	180	180	180	180	180	190	190	190	190	200	200

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	12
No load speed	rpm	6200
No load current	mA	≤ 120
Nominal speed	rpm	5100
Nominal torque	mNm	5.9
Nominal current	mA	≤ 470
Nominal power	W	3.1
Stall torque	mNm	34
Starting current	A	2
Motor commutation		Carb.b. ³
Motor rotor		Iron
Motor stator		Ferr.m. ⁴
Varistor EMC	V	13 - 18
Capacitor EMC	V	50
Resistance	Ω	6.6
Inductance	mH	7.2
Insulation class		B



GEARBOX DATA		C
Backlash no load	°	≤ 2
Radial load ¹	N	≤ 9.8
Shaft axial load	N	≤ 6.9
Shaft press fit force max.	N	≤ 200
Radial play	mm	≤ 0.05
Thrust play	mm	≤ 0.35
Bearing type		Sleeve bearing
Shaft material		Carbon steel AISI 1144
Motor pinion material		Bronze ●
Motor pinion shape		Straight
Material gear stage ²		Bakelite, steel ●
Direction of rotation		CW or CCW by reversed V polarity
Assembly front bell	mm	3.4

- NOTES
- 10 mm from gear flange.
 - Contact us for information regarding gear stage material of a specific gear ratio.
 - Carbon brush.
 - Ferrite magnet.

MAGNETIC ENCODER DATA		C
Pulses per revolution	7 x 2	●
Channels	2	
Phase shift	°	90 ± (1/6)T
Encoder rear cover material		ABS plastic
Sensor technical data		Refer externally to brand and part UTC-SK1816.
Size	mm	Diameter 30 Length 12.1
Harness connector		JST PHR-6 P=2.0-6P ●
Harness cable		AWG24 UL1007 ●
Harness length	mm	100 ●
Connection		1. BLK M- 2. RED M+ 3. BRN Vcc 4. GRN GND 5. BLU A 6. 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	-