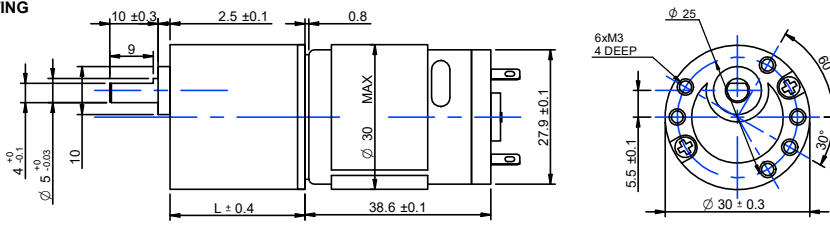


SD3039 / Ø 30mm / 4.22W / 4W

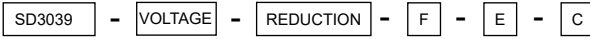
DRAWING (mm)



PHOTO



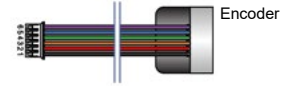
MODEL NO. DESIGNATION



Example: SD3039-12-10

F = EMC Filter
E = Encoder
C = Plastic encoder cover

ADDITIONAL



GEAR MOTOR DATA

Reduction	20:1	30:1	36:1	50:1	60:1	75:1	90:1	100:1	120:1	150:1	180:1	200:1	250:1	300:1	400:1	500:1	600:1	810:1	900:1	1000:1
Nominal torque 12 V (mNm) *	98	147	147	196	196	294	294	294	392	392	441	441	441	441	441	441	441	441	441	441
Nominal speed 12 V (rpm) *	255	168	150	107	91	73	62	56	46.3	37.5	32	28.8	24	19.5	15.2	12.1	10.4	7.7	6.9	6.3
Nominal torque 24 V (mNm) *	96	144	147	196	196	294	294	294	392	392	441	441	441	441	441	441	441	441	441	441
Nominal speed 24 V (rpm) *	258	168	150	107	91	73	62	56	46.3	37.4	31.8	28.7	24	19.5	15.1	12.1	10.3	7.7	6.9	6.3
Length (mm)	62	62	62	62	62	62	62	62	67	67	67	67	67	67	67	67	67	67	67	67
Weight (g)	162	162	162	162	162	162	162	162	171	171	171	171	171	171	171	171	171	171	171	171

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

GEAR HEAD DATA

Reduction	20:1	30:1	36:1	50:1	60:1	75:1	90:1	100:1	120:1	150:1	180:1	200:1	250:1	300:1	400:1	500:1	600:1	810:1	900:1	1000:1
Max. continuous torque (mNm)	98	147	147	196	196	294	294	294	392	392	441	441	441	441	441	441	441	441	441	441
Intermittently permissible torque (mNm)	294	441	441	588	588	883	883	883	1177	1177	1324	1324	1324	1324	1324	1324	1324	1324	1324	1324
Efficiency (%)	66	66	66	66	66	66	66	66	53	53	53	53	53	53	53	53	53	53	53	53
Length (mm)	23	23	23	23	23	23	23	23	28	28	28	28	28	28	28	28	28	28	28	28
Weight (g)	89	89	89	89	89	89	89	89	98	98	98	98	98	98	98	98	98	98	98	98

GEAR MOTOR FEATURES AND STANDARD DATA

	STANDARD	CUSTOMIZATION OPTIONS
Type	Spur gear brush DC motor	
Motor type	Iron core, commutation	Winding parameters
Motor terminals	Soldering ears	Wiring harnesses, cables and connectors
EMC filter	Yes	Yes
Gears	Straight teeth metal gears produced by	Plastic
Motor pinion gear	Bakelite	Metal
Bearing	Sleeve bearing	
Shaft	Hardened stainless steel	Dimensions
Encoder option	Magetic encoder (to order as option)	Through shaft dimensions
Operating temperature	-10...+60 °C	-40...+60 °C
Backlash no load	≤ 2°	
Radial load 10 mm from gear flange	7.9 N	
Shaft axial load	5.9 N	
Shaft press fit force max.	≤ 98 N	
Radial play	≤ 0.05 mm	
Thrust play	≤ 0.35 mm	
Manufacturing quality standards	ISO 9001	
RoHS compliance	Yes	
CE label	No	Yes
UL approval	No	Yes

MOTOR DATA

Nominal voltage (V)	12	24
No load speed (rpm)	6500	6500
No load current (mA)	≤ 150	≤ 85
Nominal speed (rpm)	5290	5250
Nominal torque (mNm)	7.65	7.26
Nominal current (mA)	≤ 530	≤ 250
Stall torque (mNm)	35.8	37
Starting current (A)	2.1	1
Output (W)	4.22	4
Length (mm)	38.6	38.6
Weight (g)	73	73