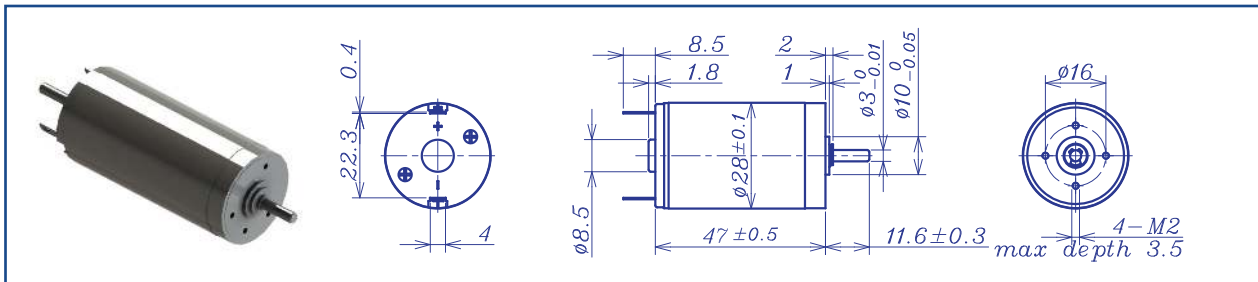


AM-CL2847GAE Series



		Graphite brush			Ball bearings		
Motor Model		1210	1810	2410	3610	4810	6010
Nominal voltage		V	12	18	24	36	60
No load speed ±12%		rpm	9880	10140	10000	10140	10360
No load current Max 150%		mA	165	115	80	60	40
Recommend limit for continuous operating	Max cont. torque	mN.m	27.0	26.8	29.2	25.0	24.2
	Rated speed	rpm	9359	9602	9411	9638	9887
	Rated current	mA	2500	1700	1360	800	480
	Rated power	W	26.4	26.9	28.8	25.2	25.1
Starting current		mA	44444	30000	21818	15000	9677
Stall torque		mN.m	511.7	504.7	496.4	504.5	530.8
Maximum power output		W	132.3	134.0	130.0	133.9	144.0
Maximum efficiency		%	88	88	88	88	88
Terminal resistance ±12%		Ω	0.27	0.6	1.1	2.4	6.2
Inductance (1KHZ)		mH					
Mechanical time constant		ms	4.5	4.7	4.7	4.7	4.6
Moment of inertia		gcm ²	22.5	22.5	22.5	22.5	22.5
Torque constant		mN.m/A	11.6	16.9	22.8	33.8	55.1
Speed constant		rpm/V	826	566	418	283	173
Speed/torque gradient		rpm/mN.m	19.3	20.1	20.1	20.1	19.5
Weight		g	158	158	158	158	158

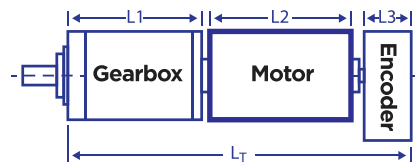
ADDITIONAL INFORMATION

Motor thermal resistance:	15.6 K/W	Motor thermal time constant:	1086 S
Axial (dynamic):	7.3 N	Radial (5mm from mounting face):	28.0 N
Press-fit force (static):	60(120)N	Max allowable screw depth into flange:	3.5 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	Preset
Maximum winding temperature:	85°C	Ambient temperature range:	-30 to °C65
Standard rear shaft diameter:	1.5 mm	Standard rear shaft length "L":	0/3.7 mm

Total Length (Gearbox and Motor): $L_T=L_1+L_2+L_3$

L1:28GP	L1:32GP	L2:CL28	L3: EN16S
25.9	27.4	47.0	10.7
33.1	35.9		
40.3	44.4		

AM-CL2847GAE Combination Scheme



Recommended Gearbox:

Planetary Gearbox:
AM-28GP
AM-32GP

Recommended Encoder:

Encoder S: AM-EN1611S***
2~3 Channels

For more combination specs, visit Assun Motor website.

Remarks: Client can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.

Motor data tested at 25°C. Motor operation exceeding continuous limits will reduce life or result in damage.
At elevated ambient temperatures, load current must be reduced.

Download datasheet: <https://assunmotor.com/documents-download>

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