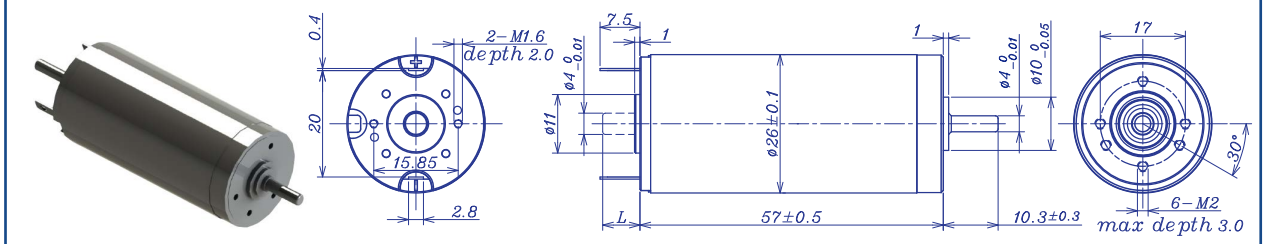
DC BRUSHED CORELESS MOTOR __

Graphite Brush

ASSUN
DRIVING THE FUTURE

AM-CL2657GAE Series



			Graphite brush		Ball bearings			
Motor Model			**1211**	**1811**	**2411**	**3611**	**4811**	**6011**
Nominal voltage		V	12	18	24	36	48	60
No load speed	±12%	rpm	10700	11030	11200	11100	10950	11300
No load current	Max 150%	mA	180	128	100	65	48	40
Recommend limit for continuous operating	Max cont. torque	mN.m	45.1	44.6	44.1	44.3	44.7	43.5
	Rated speed	rpm	9907	10271	10462	10346	10190	10553
	Rated current	mA	4400	3000	2260	1500	1120	900
	Rated power	W	46.7	48	48.3	48	47.7	48
Starting current		mA	57143	41860	32877	21176	15484	13043
Stall torque		mN.m	608.1	648.4	668.7	651.8	644.1	567.3
Maximum power output		W	170.4	187.2	196.1	189.4	184.7	194.5
Maximum efficiency		%	89	89	89	89	89	89
Terminal resistance	±12%	Ω	0.21	0.43	0.73	1.7	3.1	4.6
Inductance	(1KHZ)	mH	N/A	N/A	0.13	N/A	N/A	N/A
Mechanical time constant		ms	3.8	3.7	3.6	3.7	3.7	3.7
Moment of inertia		gcm²	20.6	20.6	20.6	20.6	20.6	20.6
Torque constant		mN.m/A	10.7	15.5	20.4	30.9	41.7	50.5
Speed constant		rpm/V	894	615	468	309	229	189
Speed/torque gradient		rpm/mN.m	17.6	17	16.7	17	17	17.2
Weight		g	180	180	180	180	180	180

ADDITIONAL INFORMATION

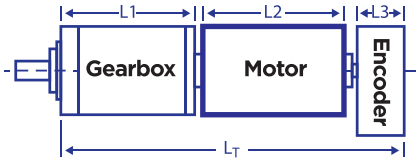
Motor thermal resistance:	11.2 K/W	Motor thermal time constant:	1172 S
Axial (dynamic):	7.3 N	Radial (5mm from mounting face):	28.0 N
Press-fit force (static):	60(120)N	Max allowable screw depth into flange:	3.0 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	预压
Maximum winding temperature:	125ºC	Ambient temperature range:	-40 to 85ºC
Standard rear shaft diameter:	4 mm	Standard rear shaft length "L":	0/3.7/5.5 mm

Total Length (Gearbox and Motor): L_T=L1+L2+L3

L1:26GP	L1: 28GP	L2:CL26	L3: EN22S	L3:EN24T
25.7	26.1	42	10.7	12.0
36	33.3			
44.5	40.5			
53	47.7			

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

AM-CL2657GAE Combination Scheme



Recommended Gearbox:
Planetary Gearbox:
AM-26GP
AM-28GP

Recommended Encoder:
Encoder S: AM-EN2211S***
2~3 Channels
Encoder T: AM-EN2412T***
2~3 Channels

For more combination specs, visit Assun Motor werbsite.

Motor data tested at 25ºC. 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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