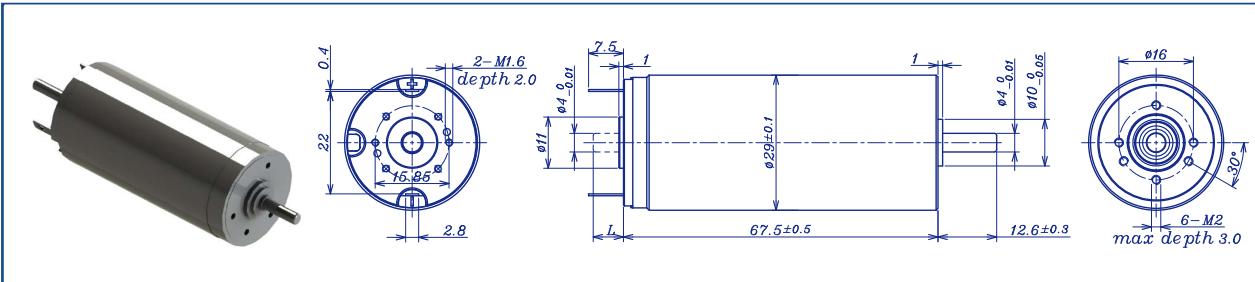


AM-CL2968GAE Series



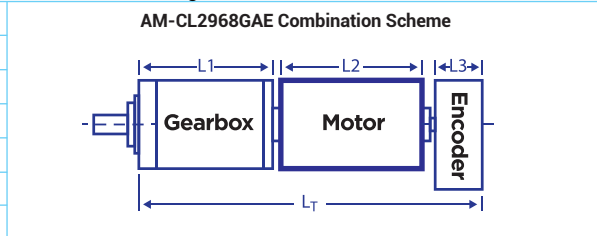
Graphite brush Ball bearings

Motor Model		1210	1810	2410	3610	4810	6010
Nominal voltage	V	12	18	24	36	48	60
No load speed	±12% rpm	9790	9780	9800	9760	9780	9770
No load current	Max 150% mA	240	160	120	80	65	55
Recommend limit for continuous operating	Max cont. torque	mN.m	56.7	62.1	67.2	63.9	62.3
	Rated speed	rpm	9233	9221	9270	9216	9271
	Rated current	mA	5100	3700	3000	1900	1450
	Rated power	W	54.8	59.9	65.2	61.7	62.9
Starting current	mA	85714	62069	53333	32727	26667	20690
Stall torque	mN.m	997.7	1085.3	1241.6	1147.1	1243.7	1206.9
Maximum power output	W	255.7	277.9	318.6	293.1	318.4	308.7
Maximum efficiency	%	90	90	91	90	90	90
Terminal resistance	±12% Ω	0.14	0.29	0.45	1.1	1.8	2.9
Inductance	(1KHZ) mH	0.094	N/A	N/A	N/A	N/A	N/A
Mechanical time constant	ms	3.6	3.3	2.9	3.1	2.9	3
Moment of inertia	gcm ²	35.3	35.3	35.3	35.3	35.3	35.3
Torque constant	mN.m/A	11.7	17.5	23.3	35.1	46.8	58.5
Speed constant	rpm/V	818	545	409	272	204	163
Speed/torque gradient	rpm/mN.m	9.8	9	7.9	8.5	7.9	8.1
Weight	g	268	268	268	268	268	268

ADDITIONAL INFORMATION

Motor thermal resistance:	10.6 K/W	Motor thermal time constant:	**** 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:	预压
Maximum winding temperature:	125°C	Ambient temperature range:	-40 to 85°C
Standard rear shaft diameter:	4 mm	Standard rear shaft length "L":	0/3.7/5.5 mm

Total Length (Gearbox and Motor): L _T =L ₁ +L ₂ +L ₃				
L1:26GP	L1:28GP	L1:32GP	L2: CL28	L3: EN22S
25.7	26.1	27.4	57	10.7
36	33.3	35.9		L3: EN24T
44.5	40.5	44.4		12
53	47.7	52.9		



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

Recommended Gearbox:
Planetary Gearbox:
AM-26GP
AM-28GP
AM-32GP

Recommended Encoder:
Encoder S: AM-EN221S***
2~3 Channels
Encoder T: AM-EN241T***
2~3 Channels

For more combination specs, visit Assun Motor website.

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>

Visit Our Website and Online Shop at <https://assunmotor.com> Contact: info@assunmotor.com