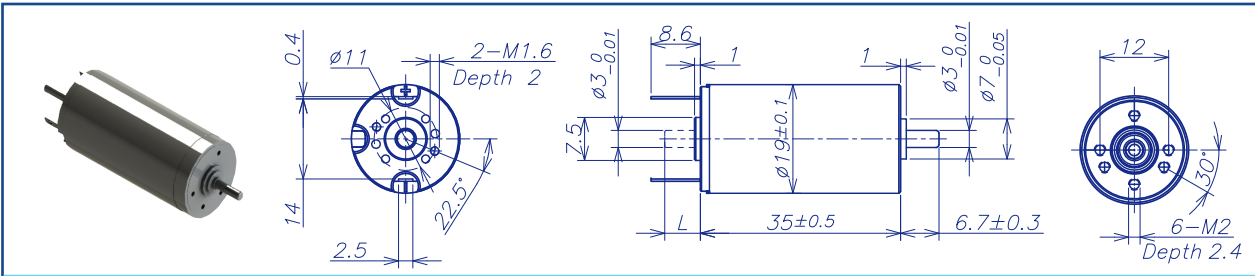


AM-CL1935GAE Series

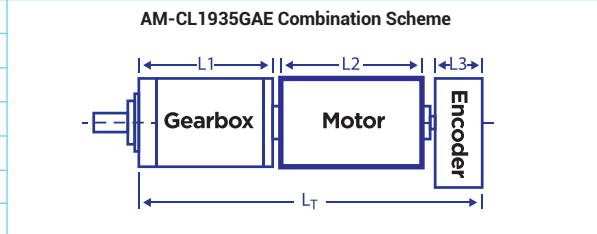


		Graphite brush			Ball bearings				
Motor Model		0613	0913	1213	1813	2413	3613	4813	
Nominal voltage		V	6	9	12	18	24	36	48
No load speed ±12%		rpm	13100	13100	13100	13100	12900	13100	12700
No load current Max 150%		mA	170	110	86	60	45	30	22
Recommend limit for continuous operating	Max cont. torque	mN.m	10.5	11.1	11	11.6	11.5	11.7	11.7
	Rated speed	rpm	10953	11089	11275	11269	11087	11349	10931
	Rated current	mA	2600	1820	1360	950	700	480	350
	Rated power	W	12.1	12.9	13.0	13.7	13.4	13.9	13.4
Starting current		mA	15000	11250	9231	6429	4706	3396	2376
Stall torque		mN.m	64	72	79	83	82	88	84
Maximum power output		W	22.0	24.8	27.2	28.4	27.7	30	28
Maximum efficiency		%	80	81	82	82	81	82	82
Terminal resistance ±12%		Ω	0.4	0.8	1.3	2.8	5.1	10.6	20.2
Inductance (1KHZ)		mH	Null	Null	Null	Null	0.48	Null	Null
Mechanical time constant		ms	7.1	6.3	5.7	5.5	5.4	5.2	5.2
Moment of inertia		gcm ²	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Torque constant		mN.m/A	4.3	6.5	8.7	13	17.6	26	35.8
Speed constant		rpm/V	2208	1470	1102	735	543	367	267
Speed/torque gradient		rpm/mN.m	204.3	181	165.3	158.2	157.3	149.6	150.9
Weight		g	53	53	53	53	53	53	53

ADDITIONAL INFORMATION

Motor thermal resistance:	26.5 K/W	Motor thermal time constant:	**** S
Axial (dynamic):	2.5 N	Radial (5mm from mounting face):	16.0 N
Press-fit force (static):	16(90)N	Max allowable screw depth into flange:	2.4 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:	3.0mm	Standard rear shaft length "L":	NO mm

Total Length (Gearbox and Motor) L _T =L ₁ +L ₂ + L ₃			
L1:19GP	L2:CL19	L3: EN16S	L3: EN16T
18.8	35	10.7	12
23.6			
28.4			
33.2			



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

Recommended Gearbox:
Planetary Gearbox:
AM-19GP

Recommended Encoder:
Encoder S: AM-EN1611S***
2~3 Channels
Encoder T: AM-EN1612T***
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>

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