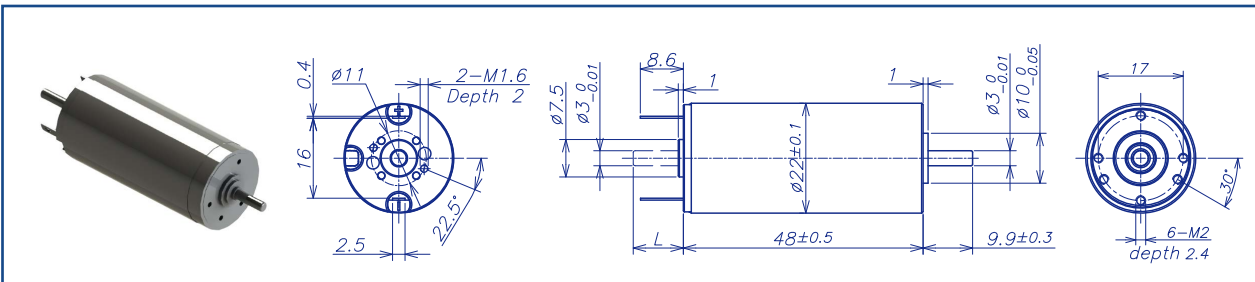


AM-CL2248GAE Series

DC BRUSHED MOTOR

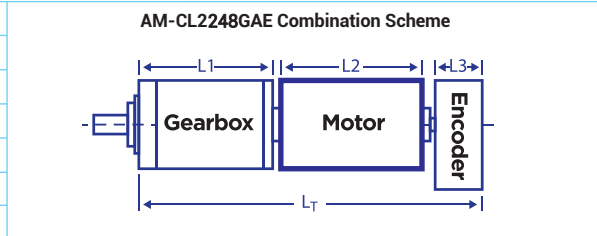


		Graphite brush			Ball bearings			
Motor Model			0911	1212	1812	2412	3612	4812
Nominal voltage		V	9	12	18	24	36	48
No load speed ±12%		rpm	11400	12300	12200	11900	12000	11900
No load current Max 150%		mA	250	210	136	100	65	55
Recommend limit for continuous operating	Max cont. torque	mN.m	19.9	18.4	18.4	18.2	18.9	18.9
	Rated speed	rpm	10657	11582	11510	11189	11287	11183
	Rated current	mA	2900	2200	1450	1050	730	550
	Rated power	W	22.2	22.3	22.2	21.3	22.4	22.2
Starting current		mA	40909	34286	23377	16000	11250	8276
Stall torque		mN.m	304.7	315.5	325.5	304.3	318.6	315
Maximum power output		W	90.9	101.6	104	94.8	100.1	98
Maximum efficiency		%	85	85	85	85	85	84
Terminal resistance ±12%		Ω	0.22	0.35	0.77	1.5	3.2	5.8
Inductance (1KHZ)		mH	0.034	N/A	N/A	N/A	N/A	0.94
Mechanical time constant		ms	3.6	3.8	3.6	3.8	3.7	3.7
Moment of inertia		gcm ²	9.3	9.3	9.3	9.3	9.3	9.3
Torque constant		mN.m/A	7.5	9.3	14	19.1	28.5	38.3
Speed constant		rpm/V	1274	1031	682	499	335	250
Speed/torque gradient		rpm/mN.m	37.4	39	37.5	39.1	37.7	38
Weight		g	104	104	104	104	104	104

ADDITIONAL INFORMATION

Motor thermal resistance:	12.2 K/W	Motor thermal time constant:	835 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:	Preset
Maximum winding temperature:	125°C	Ambient temperature range:	-40 to 85 °C
Standard rear shaft diameter:	3 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			
L1:24GP	L1:26GP	L2:CL22	L3:EN16S
24	25.7	48.0	10.7
34.3	36		L3:EN16T
42.8	44.5		12.0
51.3	53		



Recommended Gearbox:
Planetary Gearbox:
AM-24GP
AM-26GP

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

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