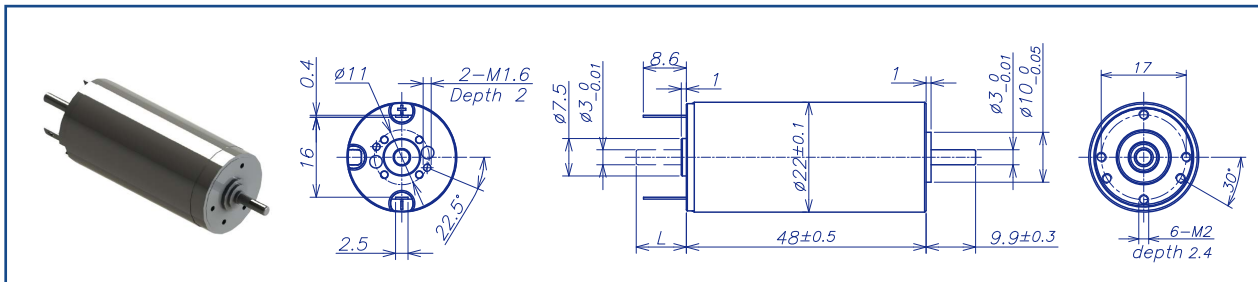


DC BRUSHED CORELESS MOTOR _
METAL Brush

AM-CL2248MAE Series

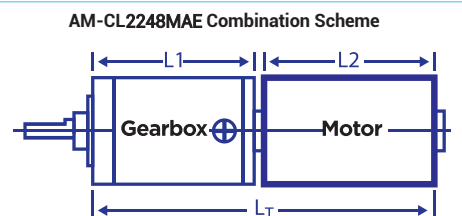


Motor Model		Precious metal brush					Ball bearings			
		0606	0906	1206	1806	2406	2806	3606	4806	
Nominal voltage	V	6	9	12	18	24	28	36	48	
No load speed	±12% rpm	6160	6160	6160	6160	6160	6210	6180	6180	
No load current	Max 150% mA	70	60	50	35	25	20	18	10	
Recommend limit for continuous operating	Max cont. torque	mN.m	14.1	21.4	29.5	29.8	29.2	29.2	27.8	
	Rated speed	rpm	5650	5630	5100	5080	5060	5050	5180	
	Rated current	mA	1520	1540	1580	1040	800	720	400	
	Rated power	W	8.3	12.6	15.8	15.9	15.5	15.4	15.1	
Starting current	mA	17600	16360	8000	6000	4000	4000	3000	2000	
Stall torque	mN.m	170	248	171.6	171	163	157	163	171.4	
Maximum power output	W	27	40	27.8	27.5	26.3	25.4	26.3	27.8	
Maximum efficiency	%	91	90	90	89	89	89	89	91	
Terminal resistance	±12% Ω	0.34	0.55	1.5	3.06	6.5	8	12.8	21.5	
Inductance (1KHZ)	mH	0.053	Null	Null	Null	Null	Null	Null	3.6	
Mechanical time constant	ms	3.9	2.9	4.3	3.9	4.6	4.3	4.1	3.9	
Moment of inertia	gcm ²	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	
Torque constant	mN.m/A	9.73	14.4	19.5	29.2	39	44.9	58	77.3	
Speed constant	rpm/V	1026	684	513	342	257	222	172	128.7	
Speed/ torque gradient	rpm/mN.m	36.2	24.8	35.9	36	37.8	39.6	37.8	36	
Weight	g	102	102	102	102	102	102	102	102	

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 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

Total Length (Gearbox and Motor): L _T =L ₁ +L ₂ + L ₃				
L1:24GP	L1:26GP	L2:CL22	L3:EN16S	L3:EN16T
24.0	25.7	48.0	10.7	12.0
34.3	36.0			
42.8	44.5			
51.3	53.0			



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.

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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