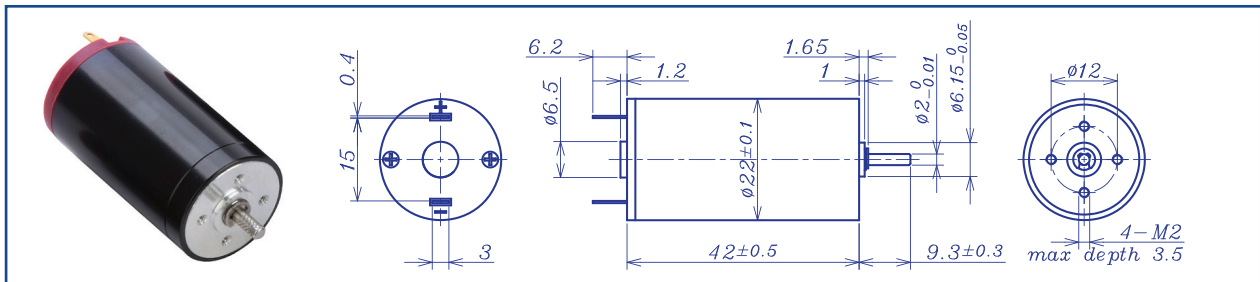


## AM-CL2242MAN SERIES

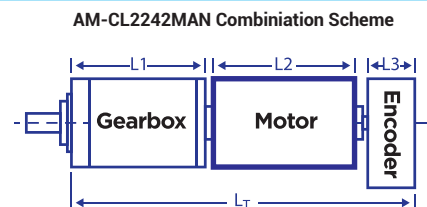


Motor Model		Precious metal brush				Ball bearings				
		0606	0606	1207	1205	2407	2405	4806	4804	
Nominal voltage	V	6	6	12	12	24	24	48	48	
No load speed	±12% rpm	6426	5045	7150	5457	7125	4743	6457	4487	
No load current	Max 150% mA	46	30	24	20	13	7.5	6.5	3.7	
Recommend limit for continuous operating	Max cont. torque	mN.m	8.3	10.4	12.4	13.2	14.0	15.0	13.6	14.9
	Rated speed	rpm	5833	4369	6352	4657	6240	3843	5615	3591
	Rated current	mA	980	950	800	650	450	320	200	150
	Rated power	W	5.1	4.8	8.2	6.4	9.2	6.0	8.0	5.6
Starting current	mA	10169	6818	6977	4317	3529	1655	1463	736	
Stall torque	mN.m	90	77	111	90	113	79	103	74	
Maximum power output	W	15.1	10.1	20.8	12.8	21.0	9.8	17.4	8.7	
Maximum efficiency	%	87	87	89	87	88	87	87	86	
Terminal resistance	±12% Ω	0.59	0.88	1.72	2.78	6.80	14.5	32.8	65.2	
Inductance	(1KHZ) mH	0.36	0.09	0.23	0.44	0.7	3.01	4.01	5.01	
Mechanical time constant	ms	6.5	6.2	6.0	5.8	6.0	5.5	5.8	5.8	
Moment of inertia	gcm <sup>2</sup>	8.66	8.92	8.92	9.06	9.06	8.79	8.73	9.12	
Torque constant	mN.m/A	8.9	11.3	16.0	20.9	32.0	48.1	70.5	101.6	
Speed constant	rpm/V	1076	846	598	457	298	199	135	94	
Speed/ torque gradient	rpm/mN.m	71.5	66.0	64.4	60.8	63.2	59.8	63.1	60.3	
Weight	g	79.5	79.8	79.8	80.1	80.1	79.6	79.5	80.1	

### ADDITIONAL INFORMATION

Motor thermal resistance:	18.4 K/W	Motor thermal time constant:	798 S
Axial (dynamic):	5.9 N	Radial (5mm from mounting face):	8.0 N
Press-fit force (static):	16(70)N	Max allowable screw depth into flange:	3.5 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play	Preset
Maximum winding temperature:	85°C	Ambient temperature range:	-30 to 65°C
Standard rear shaft diameter:	2 mm	Standard rear shaft length "L":	0/3.7 mm

Total Length (Gearbox and Motor): L <sub>T</sub> =L <sub>1</sub> +L <sub>2</sub> +L <sub>3</sub>			
L1:20GP	L1: 24GP	L2:CL22	L3: EN22S
18.8	22.2	42.0	10.7
23.6	27.4		
28.4	32.6		



**Recommended Gearbox:** Planetary Gearbox:  
AM-20GP  
AM-24GP

**Recommended Encoder:** Encoder S: AM-EN2211S\*\*\*  
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.

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