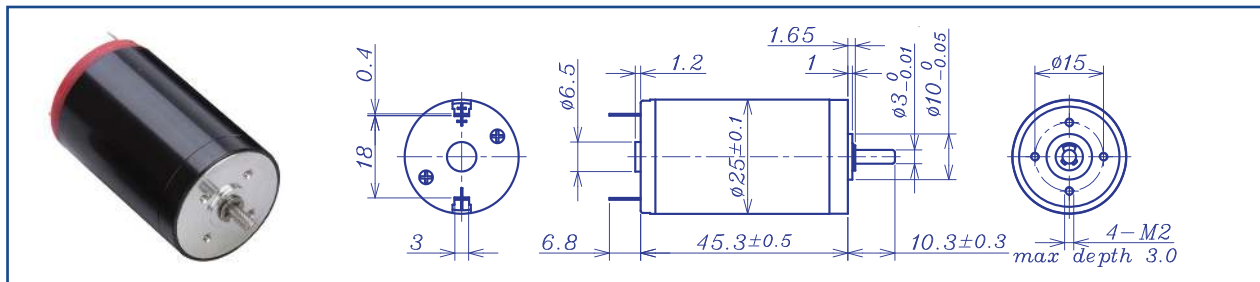


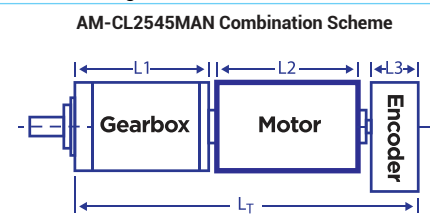
## AM-CL2545MAN SERIES



		Precious metal brush				Ball bearings				
Motor Model		0606	0604	1206	1204	2406	2404	4807	4805	
Nominal voltage	V	6	6	12	12	24	24	48	48	
No load speed	±12% rpm	5960	4070	5920	4100	6020	4250	6850	4900	
No load current	Max 150% mA	88	47	38	26	24	14	13	7	
Recommend limit for continuous operation	Max cont. torque	mN.m	8.2	12.6	17.6	18.2	18.8	22.3	20.4	27.3
	Rated speed	rpm	5641	3583	5251	3461	5374	3472	6102	3818
	Rated current	mA	950	950	950	680	520	430	320	300
	Rated power	W	4.9	4.7	9.7	6.6	10.5	8.1	13.1	10.9
Starting current	mA	16216	7595	8108	4225	4461	2286	2824	1333	
Stall torque	mN.m	154.2	105.6	155.5	116.6	168.0	121.8	187.2	123.4	
Maximum power output	W	24.1	11.3	24.1	12.5	26.5	13.5	33.6	15.8	
Maximum efficiency	%	86	85	87	85	86	85	87	86	
Terminal resistance	±12% Ω	0.37	0.79	1.48	2.84	5.38	10.5	17.0	36	
Inductance	(1KHZ) mH	0.03	0.07	0.15	0.36	0.60	1.19	2.05	3.6	
Mechanical time constant	ms	5.0	5.4	5.3	5.2	5.1	5.0	5.2	5.4	
Moment of inertia	gcm <sup>2</sup>	12.3	13.5	13.5	13.5	13.5	13.6	13.6	12.9	
Torque constant	mN.m/A	9.6	14.0	19.3	27.8	37.9	53.6	66.6	93.1	
Speed constant	rpm/V	999	683	496	344	252	178	143	103	
Speed/torque gradient	rpm/mN.m	38.6	38.5	38.1	35.1	35.8	34.9	36.6	39.7	
Weight	g	108	108	108	108	108	108	108	108	

ADDITIONAL INFORMATION			
Motor thermal resistance:	18.6 K/W	Motor thermal time constant:	969 S
Axial (dynamic):	7.3 N	Radial (5mm from mounting face):	20.0 N
Press-fit force (static):	60(120)N	Max allowable screw depth into flange:	3.0 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play	Preset
Maximum winding temperature:	85°C	Ambient temperature range:	-30 to °C65
Standard rear shaft diameter:	1.5 mm	Standard rear shaft length "L":	0/3.7 mm

Total Length (Gearbox and Motor): L <sub>T</sub> =L1+L2+L3			
L1:24GP	L1: 28GP	L2:CL25	L3: EN16S
22.2	25.9	45.3	10.7
27.4	33.1		
32.6	40.3		



**Recommended Gearbox:** Planetary Gearbox: AM-24GP, AM-28GP  
**Recommended Encoder:** Encoder S: AM-EN1611S\*\*\* 2~3 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>

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