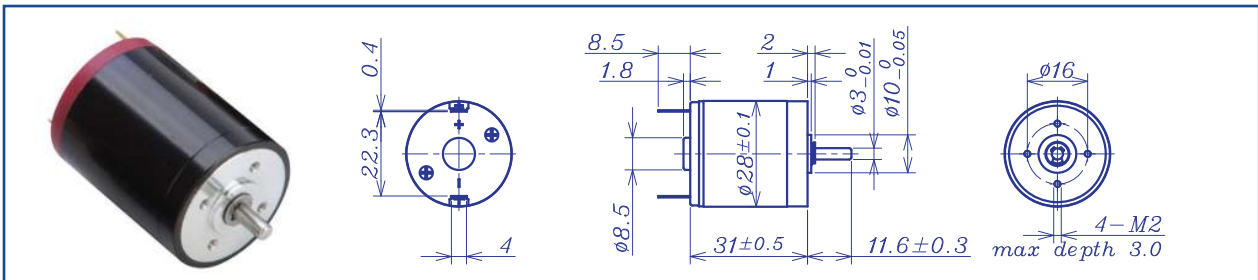


AM-CL2831MAN SERIES



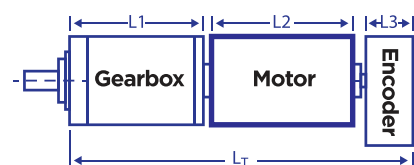
Motor Model	Precious metal brush				Ball bearings					
		0606	0604	1207	1204	2406	2404	4806	4805	
Nominal voltage	V	6	6	12	12	24	24	48	48	
No load speed	±12% rpm	6276	3960	7437	4000	6050	4288	6430	5704	
No load current	Max 150% mA	45	25	30	13	10	6.5	6.5	5.3	
Recommend limit for continuous operation	Max cont. torque	mN.m	5.9	8.3	5.7	8.1	9.0	11.3	10.2	9.1
	Rated speed	rpm	5690	3195	6860	3199	5186	3130	5731	4742
	Rated current	mA	700	600	400	300	250	220	150	120
	Rated power	W	3.5	2.8	4.1	2.7	4.9	3.7	5.7	4.5
Starting current	mA	7059	3000	4800	1446	1690	797	878	686	
Stall torque	mN.m	64	43	73	41	63	42	62	54	
Maximum power output	W	10.5	4.4	14.2	4.3	10.0	4.7	10.4	8.1	
Maximum efficiency	%	85	83	85	82	85	83	84	83	
Terminal resistance	±12% Ω	0.85	2.0	2.5	8.3	14.2	30.1	54.7	70	
Inductance	(1KHZ) mH	0.063	0.17	0.19	0.69	1.2	2.4	4.1	5.1	
Mechanical time constant	ms	17.1	16.1	16.1	16.1	15.6	16.4	17.3	17.7	
Moment of inertia	gcm ²	16.6	16.6	15.6	15.6	15.6	15.3	15.8	16.1	
Torque constant	mN.m/A	9.1	14.3	15.3	28.4	37.7	53.0	70.8	79.7	
Speed constant	rpm/V	1053	666	624	336	254	180	135	120	
Speed/torque gradient	rpm/mN.m	98.6	92.8	101.8	98.3	95.6	102.3	104.3	105.1	
Weight	g	86.2	86.2	85.3	85.3	85.3	85	85.3	85.2	

ADDITIONAL INFORMATION

Motor thermal resistance:	19.3 K/W	Motor thermal time constant:	817.2 S
Axial (dynamic):	7.3 N	Radial (5mm from mounting face):	24.0 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 _T =L1+L2+L3			
L1:28GP	L1: 32GP	L2:CL28	L3: EN16S
25.9	27.4	31.0	10.7
33.1	35.9		
40.3	44.4		

AM-CL2831MAN Combination Scheme



Recommended Gearbox: Planetary Gearbox: AM-28GP, AM-32GP
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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