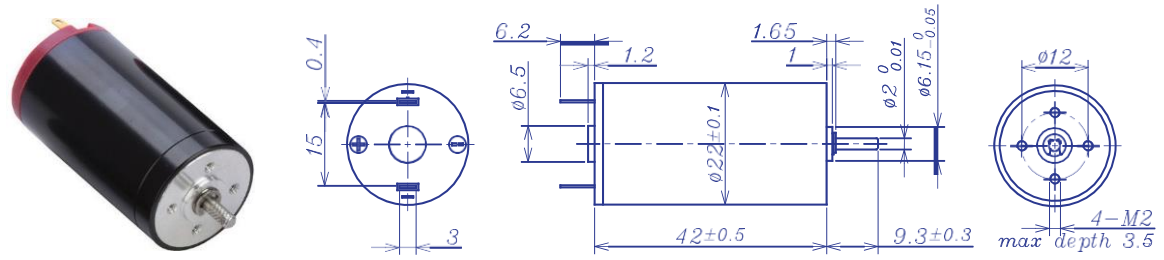
DC BRUSHED CORELESS MOTOR _

METAL BRUSH

ASSUN
DRIVING THE FUTURE

AM-CL2242MAN SERIES



			Precious metal brush		Ball bearings					
Motor Model			**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^2	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

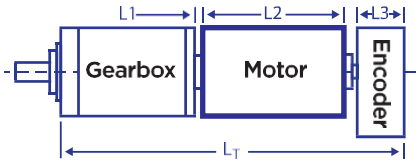
Motor thermal resistance:	18.4 K/W	Motor thermal time constant:	798 S
Axial (dynamic):	5.9 N	Radial (5mm from mounting face):	8.0 N
Press-fit force (static):	16(70)N	Max allowable screw depth into flange:	3.5 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play	Preset
Maximum winding 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_T=L1 +L2+ L3

L1:20GP	L1: 24GP		L2:CL22	L3: EN22S
18.8	22.2		42.0	10.7
23.6	27.4			
28.4	32.6			

Remarks: Client can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.

AM-CL2242MAN Combiniation Scheme



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

Recommended Encoder:
Encoder S: AM-EN2211S***
2~3 Channels

For more combination specs, visit Assun Motor werbsite.

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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