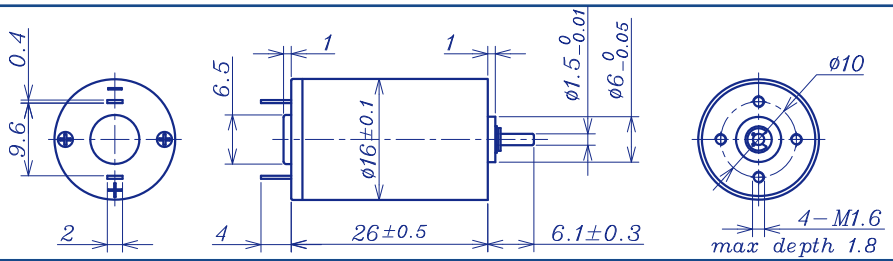
ASSUN
DRIVING THE FUTURE

AM-CL1626MAN SERIES



		Precious metal brush			Ball Bearings				
Motor Model		**0109**	**0308**	**0310**	**0608**	**0610**	**1210**	**1212**	2414
Nominal voltage	V	1.5	3	3	6	6	12	12	24
No load speed ±12%	rpm	9350	8256	10340	8129	10544	10691	12075	14306
No load current Max 150%	mA	68	25	25	10	18	10	9.2	12
Recommend limit for continuous operating — Max cont. torque	mN.m	1.2	2.5	2.1	2.7	1.8	2.5	2.3	2.2
Recommend limit for continuous operating — Rated Speed	rpm	8117	5736	8594	6001	9134	8426	10247	12476
Recommend limit for continuous operating — Rated Current	mA	850	750	800	400	350	250	250	150
Recommend limit for continuous operating — Rated Power	W	1.0	1.5	1.9	1.7	1.7	2.2	2.4	2.9
Starting current	mA	6000	2400	4615	1500	2500	1143	1600	1091
Stall torque	mN.m	9	8	13	10	13	12	15	17
Maximum power output	W	2.2	1.8	3.4	2.2	3.7	3.4	4.7	6.4
Maximum Efficiency	%	80	81	86	84	84	82	85	80
Terminal resistance ±12%	Ω	0.25	1.25	0.65	4.0	2.4	10.5	7.5	22
Inductance ($1KH_Z$)	mH	0.003	0.031	0.016	0.15	0.095	0.4	0.29	0.85
Mechanical time constant	ms	14.2	12.7	10.3	9.8	9.9	11.2	10.1	10.5
Moment of inertia	gcm^2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Torque constant	mN.m/A	1.5	3.4	2.8	7.0	5.4	10.6	9.4	15.8
Speed constant	rpm/V	6305	2781	3465	1364	1770	899	1012	603
Speed/torque gradient	rpm/mN.m	1041	1012	817	779	787	888	804	837
Weight	g	22.6	22.4	22.4	22.4	22.4	22.1	22.2	22.4

ADDITIONAL INFORMATION

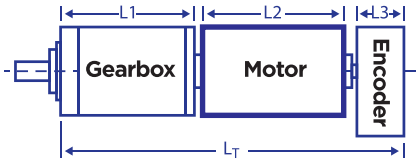
Motor thermal resistance:	37.6K/W	Motor thermal time constant:	400S
Axial (dynamic):	3.4 N	Radial (5mm from mounting face):	2.6 N
Press-fit force (static):	36 N	Max allowable screw depth into flange:	1.8 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	Preset
Maximum winding temperature:	85ºC	Ambient temperature range:	-30 to 65ºC
Standard rear shaft diameter:	2 mm	Standard rear shaft length "L":	0 mm

Total Length (Gearbox and Motor): L=L1+L2+L3

L1:16GP	L1:19GP		L2:CL16	L3: EN16S
15.9	18.8		26.0	10.7
23.3	23.6			
27.0	28.4			

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

AM-CL1626MAN Combination Scheme



Recommended Gearbox:
Planetary Gearbox:
AM-16GP
AM-19GP

Recommended Encoder:
Encoder S: AM-EN1611S***
2~3 Channels

For more combination specs, visit Assun Motor werbsite.

Motor data tested at 25ºC. 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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