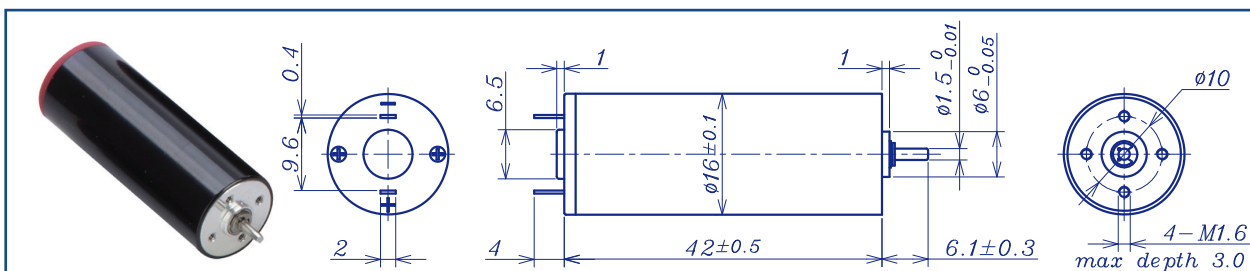


AM-CL1642MAN SERIES



		Precious metal brush			Ball bearings					
Motor Model			0609	1210	2409	2411	3609	3611	4809	4811
Nominal voltage		V	6	12	24	24	36	36	48	48
No load speed		±12% rpm	9222	9952	9450	11120	9207	11682	9339	11253
No load current		Max 150% mA	19	10.5	6.0	7.0	4.5	5.0	3.5	4.2
Recommend limit for continuous operating	Max cont. torque	mN.m	5.3	5.0	5.2	4.2	5.4	4.3	5.2	4.3
	Rated speed	rpm	8094	8874	8393	10215	8090	10700	8122	10242
	Rated current	mA	850	450	220	210	150	150	110	110
	Rated power	W	4.5	4.7	4.5	4.5	4.6	4.8	4.4	4.6
Starting current		mA	7059	4068	1920	2500	1204	1731	821	1182
Stall torque		mN.m	44	47	46	51	45	51	40	48
Maximum power output		W	10.5	12.1	11.4	14.9	10.8	15.5	9.8	14.1
Maximum efficiency		%	90	90	89	90	88	90	87	88
Terminal resistance		±12% Ω	0.85	2.95	12.5	9.6	29.9	20.8	58.5	40.6
Inductance		(1KHZ) mH	0.054	0.2	0.95	0.66	2.22	2.22	3.8	3.8
Mechanical time constant		ms	7.0	6.7	6.4	6.8	6.1	7.3	7.1	9.6
Moment of inertia		gcm ²	3.14	3.01	3.01	3.01	2.8	3.01	2.9	3.9
Torque constant		mN.m/A	6.2	11.5	24.2	20.6	37.2	29.3	48.9	40.6
Speed constant		rpm/V	1541	831	395	465	257	325	195	235
Speed/ torque gradient		rpm/mN.m	211	214	204	217	206	231	234	235
Weight		g	39.0	38.5	38.5	38.5	38.5	38.6	37.9	38.1

ADDITIONAL INFORMATION

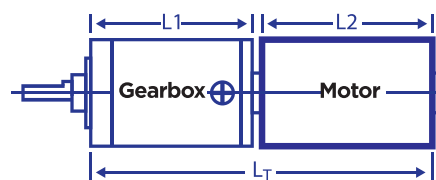
Motor thermal resistance:	K/W	Motor thermal time constant:	S
Axial (dynamic):	3.4 N	Radial (5mm from mounting face):	6.0 N
Press-fit force (static):	36N	Max allowable screw depth into flange:	3.0 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play	Preset
Maximum winding temperature:	85°C	Ambient temperature range:	-30 to 65°C
Standard rear shaft diameter:	N/A	Standard rear shaft length "L":	N/A

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

L1:16GP	L1: 19GP		L2:CL16	
15.9	18.8		42.0	
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-CL1642MAN Combination Scheme



Recommended Gearbox:

Planetary Gearbox:
AM-16GP
AM-19GP

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.

Download datasheet: <https://assunmotor.com/documents-download>

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