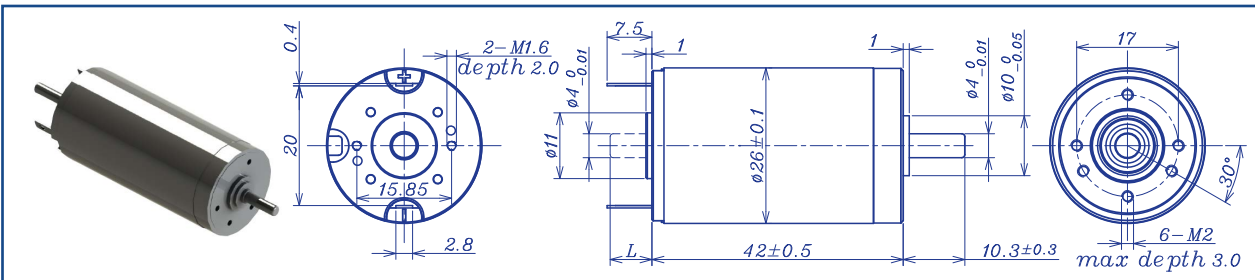


AM-CL2642MAE Series



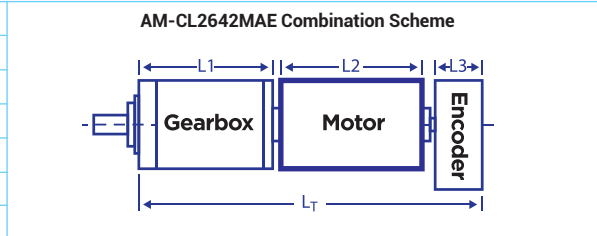
Precious metal brush Ball bearings

Motor Model		0605	0905	1205	1805	2405	3605	4805	
Nominal voltage	V	6	9	12	18	24	36	48	
No load speed	±12% rpm	5000	5000	5100	4950	4900	5100	5250	
No load current	Max 150% mA	65	43	32	22	16	12	9	
Recommend limit for continuous operating	Max cont. torque	mN.m	24.3	25.2	26.1	24.8	25.3	25	25.3
	Rated speed	rpm	4034	3985	4127	3937	3917	4116	4283
	Rated current	mA	2200	1520	1200	740	560	385	300
	Rated power	W	10.3	10.5	11.3	10.2	10.4	10.8	11.3
Starting current	mA	11111	7317	6154	3529	2727	1946	1589	
Stall torque	mN.m	125.8	124.3	136.8	121	126.1	129.6	137.2	
Maximum power output	W	16.5	16.3	18.3	15.7	16.2	17.3	18.9	
Maximum efficiency	%	85	85	86	85	85	85	86	
Terminal resistance	±12% Ω	0.54	1.23	1.95	5.1	8.8	18.5	30.2	
Inductance	(1KHZ) mH	Null	Null	0.293	Null	Null	Null	4.56	
Mechanical time constant	ms	5.7	5.8	5.4	5.9	5.6	5.7	5.5	
Moment of inertia	gcm ²	13.8	13.8	13.8	13.8	13.8	13.8	13.8	
Torque constant	mN.m/A	11.4	17.1	22.4	34.5	46.5	67	86.8	
Speed constant	rpm/V	838	559	427	277	205	143	110	
Speed/torque gradient	rpm/mN.m	39.7	40.2	37.3	40.9	38.9	39.4	38.3	
Weight	g	122	122	122	122	122	122	122	

ADDITIONAL INFORMATION

Motor thermal resistance:	16.5 K/W	Motor thermal time constant:	**** S
Axial (dynamic):	7.3 N	Radial (5mm from mounting face):	28.0 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:	预压
Maximum winding temperature:	125°C	Ambient temperature range:	-40 to 85°C

Total Length (Gearbox and Motor): L _T =L ₁ +L ₂ +L ₃				
L1:26GP	L1: 28GP	L2:CL26	L3: EN22S	L3: EN24T
25.7	26.1	42	10.7	12.0
36	33.3			
44.5	40.5			
53	47.7			



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

Recommended Gearbox:
Planetary Gearbox:
AM-26GP
AM-28GP

Recommended Encoder:
Encoder S: AM-EN221S***
2~3 Channels
Encoder T: AM-EN241T***
2~3 Channels

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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