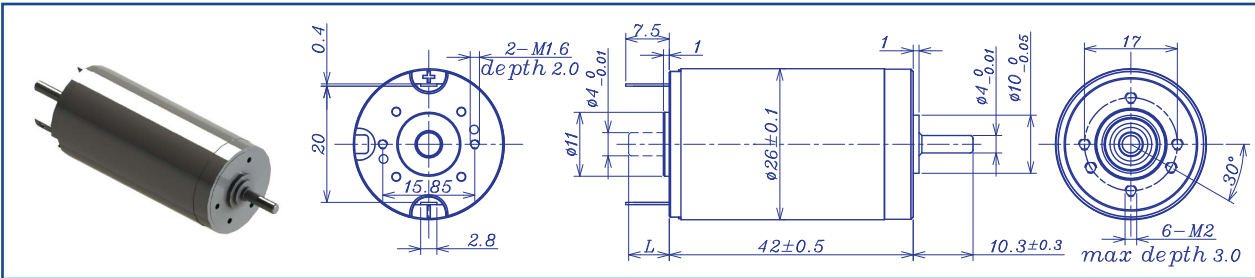


AM-CL2642GAE Series

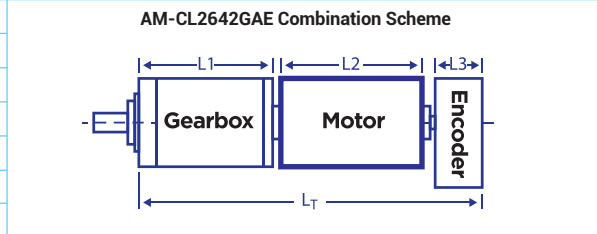
DC BRUSHED MOTOR



		Graphite brush		Ball bearings			
Motor Model		1210	1810	2410	3610	4810	
Nominal voltage	V	12	18	24	36	48	
No load speed	±12% rpm	10230	10229	9950	10040	10090	
No load current	Max 150% mA	142	95	68	46	35	
Recommend limit for continuous operating	Max cont. torque	mN.m	25.1	25.1	25.2	25.3	25.5
	Rated speed	rpm	9164	9153	8800	8954	9002
	Rated current	mA	2400	1600	1170	790	600
	Rated power	W	24.1	24.1	23.2	23.7	24
Starting current	mA	21818	14400	9600	6923	5275	
Stall torque	mN.m	241.2	238.8	218	233.9	236.4	
Maximum power output	W	64.6	63.9	56.8	61.5	62.5	
Maximum efficiency	%	85	84	84	84	84	
Terminal resistance	±12% Ω	0.55	1.25	2.5	5.2	9.1	
Inductance	(1KHZ) mH	N/A	N/A	N/A	N/A	N/A	
Mechanical time constant	ms	6.1	6.2	6.6	6.2	6.2	
Moment of inertia	gcm ²	13.8	13.8	13.8	13.8	13.8	
Torque constant	mN.m/A	11.1	16.7	22.9	34	45.1	
Speed constant	rpm/V	858	572	418	281	212	
Speed/torque gradient	rpm/mN.m	42.4	42.8	45.6	42.9	42.7	
Weight	g	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
Standard rear shaft diameter:	4 mm	Standard rear shaft length "L":	0/3.7/5.5 mm

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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