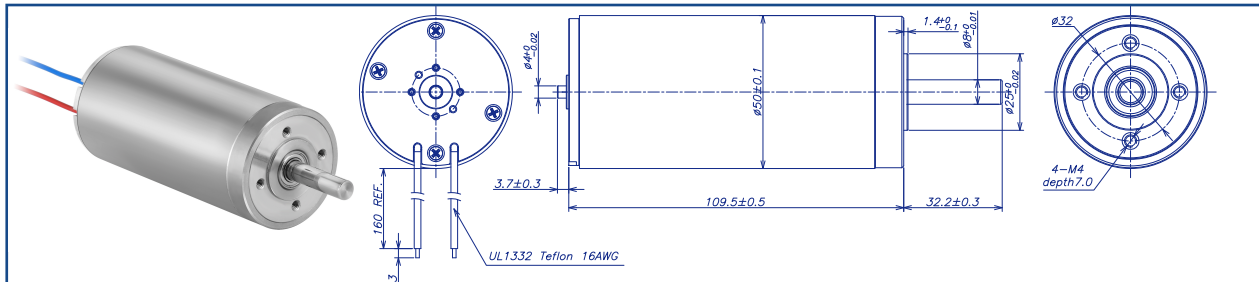


DC BRUSHED CORELESS MOTOR
Graphite Brush

AM-CL50109GAF Series



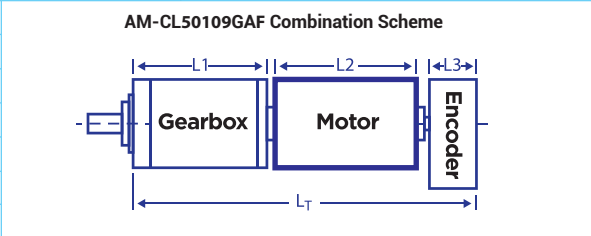
Graphite brush **Ball bearings**

Motor Model		2406	2708	4805	7003	
Nominal voltage	V	24	27	48	70	
No load speed	$\pm 12\%$ rpm	5900	7626	4940	3013	
No load current	Max 150% mA	470	350	95	40	
Recommend limit for continuous operating	Max cont. torque	mN.m	405	420	420	452
	Rated speed	rpm	5687	7390	4490	2610
	Rated current	mA	10800	12780	4480	2000
	Rated power	W	241	325	197.5	123
Starting current	mA	256798	402402	82235	20897	
Stall torque	mN.m	9905	13585	7936	4830	
Maximum power output	W	1537	2712	985	364	
Maximum efficiency	%	92	94	92	90	
Terminal resistance	$\pm 12\%$ Ω	0.094	0.067	0.57	3.3	
Inductance	(1KHZ) mH	-	-	-	-	
Mechanical time constant	ms	3.8	3.8	3.8	3.8	
Moment of inertia	gcm ²	545	545	545	545	
Torque constant	mN.m/A	38.62	33.8	96.5	231.7	
Speed constant	rpm/V	247	289	104	41	
Speed/torque gradient	rpm/mN.m	0.6	0.561	0.6	0.6	
Weight	g	1250	1150	1250	1250	

ADDITIONAL INFORMATION

Motor thermal resistance:	-K/W	Motor thermal time constant:	- S
Axial (dynamic):	30N	Radial (5mm from mounting face):	100N
Press-fit force (static):	150N	Max allowable screw depth into flange:	6.5mm
Maximum radial play (5mm from mounting face):	≤ 0.02 mm	Axial play:	Present
Maximum winding temperature:	125°C	Ambient temperature range:	-30 to 100°C
Standard rear shaft diameter:	8.0 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: 45GP	L1: 52GP	L2: CL50	L3: EN22S	L3: EN24T
36.1	46.3	109.5	10.7	12.0
48.1	62.8			
60.1	79.3			
72.1	95.8			



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

Recommended Gearbox:
Planetary Gearbox:
AM-45GP
AM-52GP

Recommended Encoder:
Encoder S: AM-EN211S***
Encoder T: AM-EN2412T***

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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