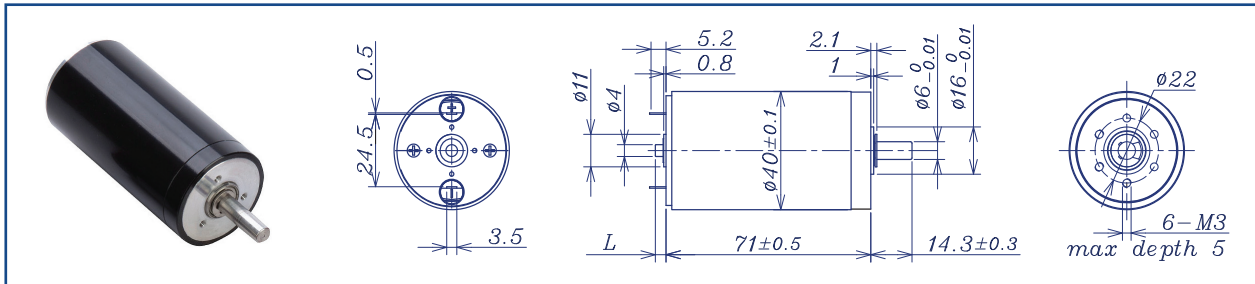


AM-CL4071GAE SERIES (125 °C)

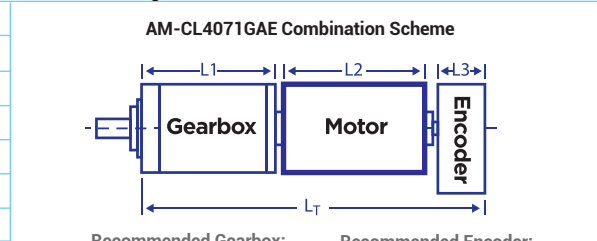


		Graphite brush			Ball Bearings					
Motor Model		1207	2408	4808	4806	4805	4804	4803	4802	
Nominal voltage		V	12	24	48	48	48	48	48	
No load speed ±12%		rpm	6800	7850	7870	6300	5400	3500	2050	
No load current Max 150%		mA	275	160	85	65	56	36	22	
Recommend limit for continuous rimmomg	Max cont. torque	mN.m	96.1	155.5	169.4	169.5	173.0	177.9	181.3	186.0
	Rated Speed	rpm	6312	7237	7247	5747	4823	2921	1874	1470
	Rated Current	mA	6000	5500	3000	2400	2100	1400	1000	860
	Rated Power	W	63.5	117.9	128.6	102.0	87.4	54.4	35.6	28.6
Starting current		mA	80000	68571	36923	26667	19200	8276	4174	2981
Stall torque		mN.m	1339	1993	2141	1931	1620	1074	772	657
Maximum power output		W	238.4	409.5	441.0	318.4	229.1	98.4	49.5	35.3
Maximum Efficiency		%	89	91	91	90	89	87	85	84
Terminal resistance ±12%		Ω	0.15	0.35	1.3	1.8	2.5	5.8	11.5	16.1
Inductance (1KH <sub>2</sub> )		mH								
Mechanical time constant		ms	6.6	5.1	4.7	4.1	4.2	4.2	4.0	3.9
Moment of inertia		gcm <sup>2</sup>	123.5	122.6	120.8	120.8	120.2	122.2	120.5	120.7
Torque constant		mN.m/A	16.8	29.1	58.1	72.6	84.6	130.4	186.0	221.9
Speed constant		rpm/V	569	328	164	132	113	73	51	43
Speed/torque gradient		rpm/mN.m	5.1	3.9	3.7	3.3	3.3	3.3	3.2	3.1
Weight		g	495	496	498	495	496	497	495	496

ADDITIONAL INFORMATION

Motor thermal resistance:	K/W	Motor thermal time constant:	S
Axial (dynamic):	5.5 N	Radial (5mm from mounting face):	29.0 N
Press-fit force (static):	100(1000) N	Max allowable screw depth into flange:	5.0 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	Preset
Maximum winding temperature:	125°C	Ambient temperature range:	-30 to 65°C
Standard rear shaft diameter:	4 mm	Standard rear shaft length "L":	0/3.7/5.5 mm

Total Length (Gearbox and Motor) <sub>LT=L1+L2+L3</sub>				
L1: 40GP	L1: 45GP	L2: CL40	L3:EN22S	L3:EN24T
46.8	62.8	71	10.7	12.0
58.3	74.8			
69.8				



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

**Recommended Gearbox:**  
Planetary Gearbox:  
AM-40GP  
AM-45GP

**Recommended Encoder:**  
Encoder S: AM-EN2211S\*\*\*  
2~3 Channels  
Encoder T: AM-EN2412T\*\*\*  
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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