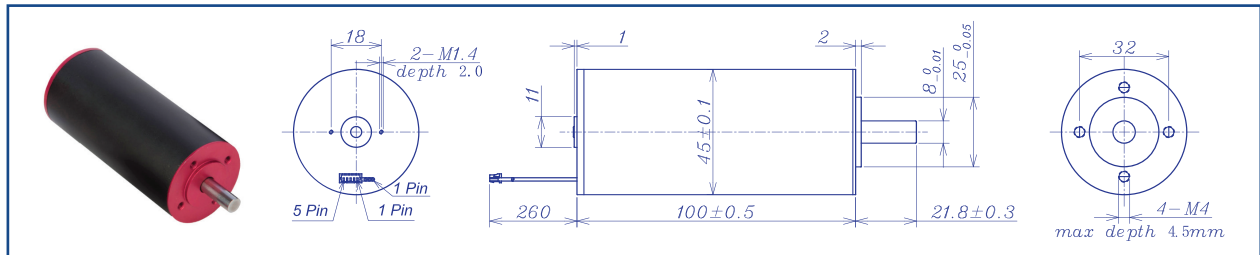


AM-BL45100AN Series

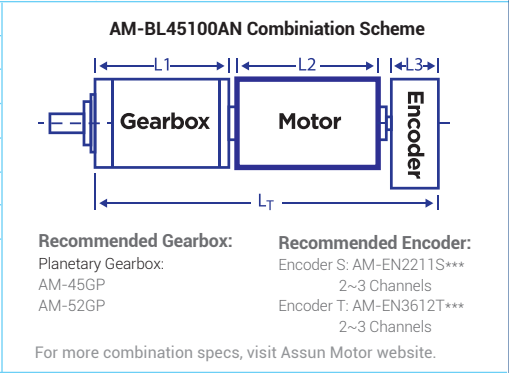


		Brushless Motor		Ball Bearings				
Motor Model		2411	2406	3610	3606	4810	4806	
Nominal voltage	V	24	24	36	36	48	48	
No load speed ±12%	rpm	11240	5900	5900	10340	6380	10360	
No load current Max 150%	mA	600	320	390	200	370	190	
Recommend limit for continuous operating	Max cont. torque	mN.m	69.0	161.5	69.9	123.3.4	49.8	120.8
	Rated Speed	rpm	10984	5466	10127	6032	10215	6108
	Rated Current	mA	4000	4500	2500	2500	1500	1900
	Rated Power	W	79.4	92.4	74.1	77.9	53.2	77.3
Starting current	mA	150000	57143	102857	42353	81356	32432	
Stall torque	mN.m	3034	2195	3394	2261	3567	2278	
Maximum power output	W	892.8	339.0	918.7	377.6	967.4	384.6	
Maximum Efficiency	%	88	86	88	87	87	85	
Terminal resistance ±12%	Ω	0.16	0.42	0.35	0.85	0.59	1.48	
Inductance (1KHz)	mH	0.035	0.14	0.11	0.31	0.21	0.55	
Mechanical time constant	ms	4.3	3.1	3.5	3.2	3.3	3.3	
Moment of inertia	gcm ²	109.8	109.8	109.8	109.8	109.8	109.8	
Torque constant	mN.m/A	20.3	38.6	33.1	53.6	44.0	70.6	
Speed constant	rpm/V	470	247	288	178	217	135	
Speed/torque gradient	rpm/mN.m	3.7	2.7	3.0	2.8	2.9	2.8	
Weight	g	846.5	850.2	852.5	841.5	847.5	840.3	

ADDITIONAL INFORMATION			
Motor thermal resistance:	3.6 K/W	Motor thermal time constant:	1286 S
Axial (dynamic):	8.0 N	Radial (5mm from mounting face):	180.0 N
Press-fit force (static):	170 N	Max allowable screw depth into flange:	4.5 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	0 (<8.0N)
Maximum winding temperature:	85°C	Ambient temperature range:	-30 to 65°C
Standard rear shaft diameter:	8 mm	Standard rear shaft length "L":	0/3.7/5.5 mm

Connection (AWG 18#)	Total Length: L _T =L ₁ +L ₂ +L ₃				
Cable 1: Yellow Winding A	L1:45GP	L1:52GP	L2:BL45	L3:EN22S	L3:EN36T
Cable 2: Red Winding B	62.8.9	18.8	40.0	10.7	12.0
Cable 3: Blue Winding C	74.8				
Plug definition (AWG 28#) Molex: 51021-0500					
Plug 1: Red Hall 3~16V					
Plug 2: Black Hall GND					
Plug 3: Yellow Hall A					
Plug 4: Red Hall B					
Plug 5: Blue Hall C					

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



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>