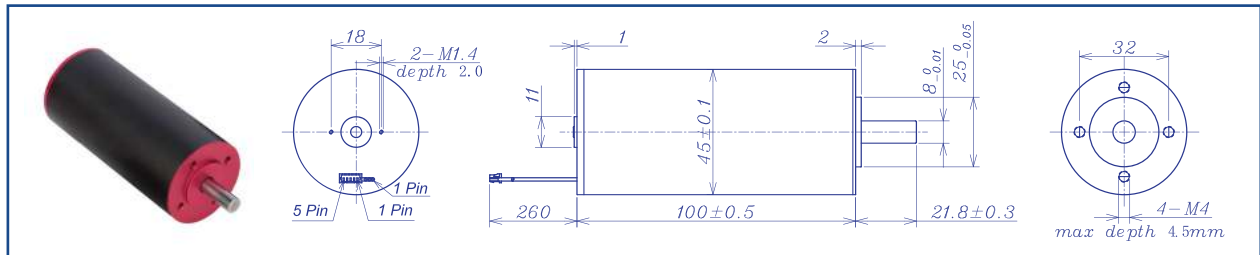


AM-BL45100AN Series

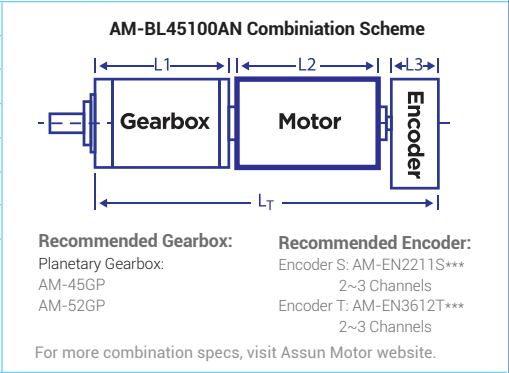


		Brushless Motor			Ball Bearings		
Motor Model		2411	2406	3610	3606	4810	4806
Nominal voltage		V	24	24	36	36	48
No load speed ±12%		rpm	11240	5900	10340	6380	10360
No load current Max 150%		mA	600	320	390	200	370
Recommend limit for continuous operating	Max cont. torque	mN.m	69.0	161.5	69.9	123.3.4	49.8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

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>