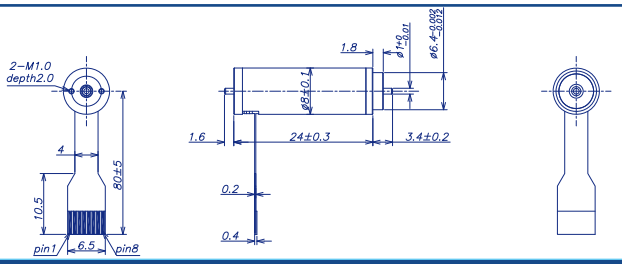
DC BRUSHLESS MOTOR

HIGH TEMPERATURE SERIES

ASSUN
DRIVING THE FUTURE

AM-BL0824AE Series



		Brushless Motor		Ball Bearings		
Motor Model		**0629**	**0929**	**1230**		
Nominal voltage	V	6	9	12		
No load speed ±12%	rpm	29000	29000	30500		
No load current Max 150%	mA	130	65	52		
Recommend limit for continuous operating — Max cont. torque	mN.m	1.23	1.26	1.26		
Recommend limit for continuous operating — Rated Speed	rpm	26700	21200	22800		
Recommend limit for continuous operating — Rated Current	mA	900	497	391		
Recommend limit for continuous operating — Rated Power	W	2.8	2.8	3.0		
Starting current	mA	3340	1700	1430		
Stall torque	mN.m	5.18	4.83	5.18		
Maximum power output	W	4.6	3.5	4.0		
Maximum Efficiency	%	66	66	65		
Terminal resistance ±12%	Ω	1.8	5.3	8.4		
Inductance (1KH$_Z$)	mH	0.026	0.089	0.144		
Mechanical time constant	ms	1.9	1.6	1.6		
Moment of inertia	gcm^2	0.025	0.025	0.025		
Torque constant	mN.m/A	1.55	2.84	3.62		
Speed constant	rpm/V	6160	3360	2650		
Speed/torque gradient	rpm/mN.m	7130	6260	6110		
Weight	g	--	--	--		

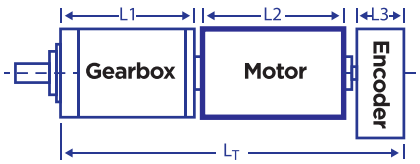
ADDITIONAL INFORMATION

Motor thermal resistance:	- K/W	Motor thermal time constant:	-S
Axial (dynamic):	0.2N	Radial (5mm from mounting face):	2 N
Press-fit force (static):	10N	Max allowable screw depth into flange:	NO
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	Preset
Maximum winding temperature:	125ºC	Ambient temperature range:	-40 to 85ºC
Standard rear shaft diameter:	1 mm	Standard rear shaft length "L":	1.6 mm

Connection (FPC)		Total Length: L_T=L1+L2+L3				
PIN 1:	Winding A	**L1:8GP**		**L2:BL08**	**L3:EN10S**	
PIN 2:	Winding B	6.9		24.0	8	
PIN 3:	Winding C	9.7				
PIN 4:	Hall 3~16V	12.5				
PIN 5:	Hall GND	15.3				
PIN 6:	Hall A	18.1				
PIN 7:	Hall B					
PIN 8:	Hall C					

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

AM-BL0824AE Combiniation Scheme



Recommended Gearbox:
Planetary Gearbox:
AM-8GP

Recommended Encoder:
Encoder S: AM-EN***
2~3 Channels

For more combination specs, visit Assun Motor website.

Motor data tested at 25ºC. 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