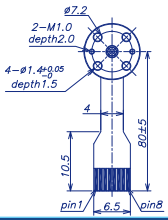
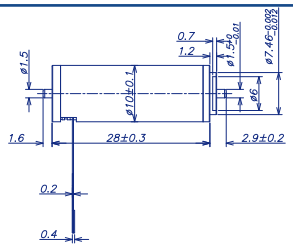
DC BRUSHLESS MOTOR

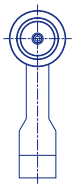
HIGH TEMPERATURE SERIES

ASSUN
DRIVING THE FUTURE

AM-BL1028AE Series







			Brushless Motor		Ball Bearings		
Motor Model			**1234**	**1834**	**2434**		
Nominal voltage		V	12	18	24		
No load speed ±12%		rpm	33500	33345	34000		
No load current Max 150%		mA	80	65	40		
Recommend limit for continuous operating	Max cont. torque	mN.m	1.6	1.6	1.6		
	Rated Speed	rpm	26800	26825	26360		
	Rated Current	mA	585	405	297		
	Rated Power	W	4.5	4.5	4.4		
Starting current		mA	2610	1807	1180		
Stall torque		mN.m	8.0	8.2	7.09		
Maximum power output		W	7.0	7.1	6.3		
Maximum Efficiency		%	65	63	64		
Terminal resistance ±12%		Ω	4.46	10	20.3		
Inductance ($1KH_Z$)		mH	Null	Null	Null		
Mechanical time constant		ms	5.1	5.1	5.1		
Moment of inertia		gcm^2	0.067	0.067	0.067		
Torque constant		mN.m/A	3.17	4.69	6.22		
Speed constant		rpm/V	2880	1921	1425		
Speed/torque gradient		rpm/mN.m	4182	4075	4799		
Weight		g	13	13	13		

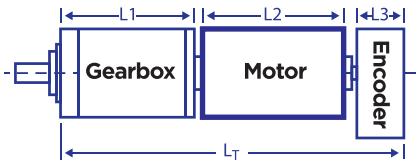
ADDITIONAL INFORMATION

Motor thermal resistance:	- K/W	Motor thermal time constant:	-S
Axial (dynamic):	0.5N	Radial (5mm from mounting face):	5 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:	1.5 mm	Standard rear shaft length "L":	1.6 mm

Connection (FPC)		Total Length: L_T=L1+L2+L3				
PIN 1:	Winding A	**L1:10GP**	**L1:12GP**	**L2:BL10**	**L3:EN10S**	
PIN 2:	Winding B	6.8	15.4	28.0	8	
PIN 3:	Winding C	10	19.6			
PIN 4:	Hall 3~16V	13.2	23.8			
PIN 5:	Hall GND	16.4	28			
PIN 6:	Hall A	19.2	32.2			
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-BL1028AE Combiniation Scheme



Recommended Gearbox:
Planetary Gearbox:
AM-10GP
AM-12GP

Recommended Encoder:
Encoder S: AM-EN1008S***
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