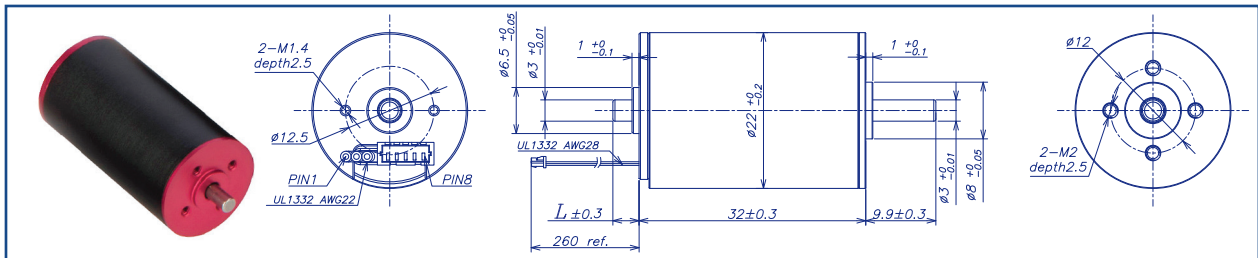


DC BRUSHLESS MOTOR HIGH TEMPERATURE SERIES



AM-BL2232AE Series



		Brushless Motor				Ball Bearings	
Motor Model			1212	1812	2412	3612	
Nominal voltage		V	12	18	24	36	
No load speed ±12%		rpm	11920	12000	12440	12080	
No load current Max 150%		mA	120	150	65	40	
Recommend limit for continuous operating	Max cont. torque	mN.m	10.2	13.9	10.8	10.6	
	Rated Speed	rpm	9050	8250	9330	8990	
	Rated Current	mA	1210	1100	660	430	
	Rated Power	W	966	12.0	10.6	10.0	
Starting current		mA	4700	2700	2500	1540	
Stall torque		mN.m	42.3	32	43.2	41.5	
Maximum power output		W	13.2	19.8	14.0	13.1	
Maximum Efficiency		%	70.5	68.5	70.7	70.2	
Terminal resistance ±12%		Ω	2.57	4.84	9.67	23.33	
Inductance (1KHz)		mH	-	-	-	-	
Mechanical time constant		ms	6.7	6.7	6.7	6.7	
Moment of inertia		gcm ²	2.8	2.8	2.8	2.8	
Torque constant		mN.m/A	9.33	11.9	17.88	27.6	
Speed constant		rpm/V	1024	611	534	346	
Speed/torque gradient		rpm/mN.m	281	389	287	291	
Weight		g	60.2	60.2	60.6	60.6	

ADDITIONAL INFORMATION

Motor thermal resistance:	-K/W	Motor thermal time constant:	-S
Axial (dynamic):	4.0 N	Radial (5mm from mounting face):	4.0 N
Press-fit force (static):	60 N	Max allowable screw depth into flange:	2.5 mm
Maximum radial play (5mm from mounting face):	≤0.02 mm	Axial play:	预压
Maximum winding temperature:	125°C	Ambient temperature range:	-40 to 65°C
Standard rear shaft diameter:	3 mm	Standard rear shaft length "L":	0/3.7/5.5 mm

Connection (AWG 24#)	Total Length: L _T =L ₁ +L ₂ +L ₃				
Cable 1: Yellow Winding A	L1:19GP	L1:24GP	L2:BL22	L3:EN16S	L3:EN16T
Cable 2: Red Winding B	18.8	24.0	32.0	10.7	12.0
Cable 3: Blue Winding C	23.6	34.3			
Plug definition (AWG 28#) Molex: 51021-0500	28.4	42.8			
Plug 1: Brown Hall 3~16V					
Plug 2: Black Hall GND					
Plug 3: Yellow Hall A					
Plug 4: Red Hall B					
Plug 5: Blue Hall C					

AM-BL2232AE Combination Scheme

Recommended Gearbox:
Planetary Gearbox:
AM-19GP
AM-22GP
AM-24GP

Recommended Encoder:
Encoder S: AM-EN1611S***
Encoder T: AM-EN1612T***

For more combination specs, visit Assun Motor website.

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>

Visit Our Website and Online Shop at <https://assunmotor.com> Contact: info@assunmotor.com