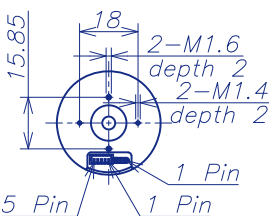
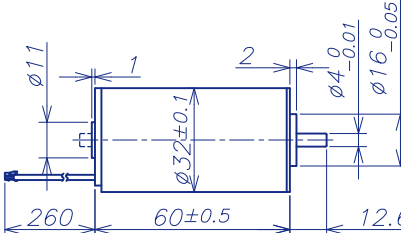
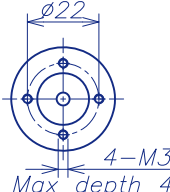
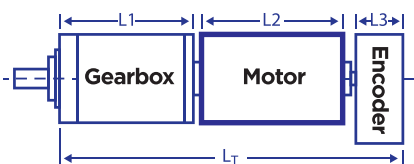


DC BRUSHLESS MOTOR — HIGH TEMPERATURE SERIES

ASSUN
DRIVING THE FUTURE

AM-BL3260AE Series

											
Brushless Motor			Ball Bearings								
Motor Model			1212	1208	2413	2409	3613	3610			
Nominal voltage		V	12	12	24	24	36	36			
No load speed ±12%		rpm	12191	8127	12832	9680	12311	10449			
No load current Max 150%		mA	355	192	190	127	125	94			
Recommend limit for continuous operating	Max cont. torque	mN.m	52.7	60.3	49.9	57.8	50.8	55.8			
	Rated Speed	rpm	11037	6864	11805	8549	11548	9278			
	Rated Current	mA	6000	4500	3000	2600	2000	1800			
	Rated Power	W	61.0	43.4	61.7	51.7	61.5	54.2			
Starting current		mA	60000	27907	35294	20168	22360	15319			
Stall torque		mN.m	557	388	624	468	603	438			
Maximum power output		W	177.9	82.6	209.5	119.5	80.4	136.2			
Maximum Efficiency		%	85	84	86	85	86	85			
Terminal resistance ±12%		Ω	0.2	0.43	0.68	1.19	1.61	2.35			
Inductance (1KHz)		mH	0.029	0.069	0.12	0.2	N/A	0.42			
Mechanical time constant		ms	3.0	2.9	2.9	2.9	2.9	2.9			
Moment of inertia		gcm ²	13.3	13.3	13.3	13.3	13.3	13.3			
Torque constant		mN.m/A	9.3	14.0	17.8	23.4	27.1	32.7			
Speed constant		rpm/V	1022	682	538	409	352	292			
Speed/torque gradient		rpm/mN.m	21.9	20.9	20.6	20.8	20.9	21.0			
Weight		g	240	240	240	240	240	240			
ADDITIONAL INFORMATION											
Motor thermal resistance:			7.8 K/W			Motor thermal time constant:			1089 S		
Axial (dynamic):			6.0 N			Radial (5mm from mounting face):			28.0 N		
Press-fit force (static):			110N			Max allowable screw depth into flange:			4.0 mm		
Maximum radial play (5mm from mounting face):			≤0.02 mm			Axial play:			0 (<6.0N)		
Maximum winding temperature:			125°C			Ambient temperature range:			-30 to 65°C		
Standard rear shaft diameter:			4 mm			Standard rear shaft length "L":			0/3.7/5.5 mm		
Connection (AWG 20#)		Total Length: L _T =L ₁ +L ₂ +L ₃									
Cable 1: Yellow	Winding A	L1:32GP	L1:36GP	L2:BL32	L3:EN22S	L3:EN24T	 AM-BL3260AE Combination Scheme Recommended Gearbox: Planetary Gearbox: AM-28GP AM-32GP Recommended Encoder: Encoder S: AM-EN2211S*** 2~3 Channels Encoder T: AM-EN2412T*** 2~3 Channels For more combination specs, visit Assun Motor website.				
Cable 2: Red	Winding B	27.4	39.6	60.0	10.7	12.0					
Cable 3: Blue	Winding C	35.9	48.6								
Plug definition (AWG 28#) Molex: 51021-0500		44.4	57.6								
Plug 1: Brown	Hall 3~16V	Remarks: Client can choose gearbox and encoder to match with this motor. Some combinations are listed here for reference.									
Plug 2: Black	Hall GND										
Plug 3: Yellow	Hall A										
Plug 4: Red	Hall B										
Plug 5: Blue	Hall C										
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>

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