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TECHNOLOGY GROUP

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with experienced engineers and technicians on staff.

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Custom engineering
so your equipment works exactly as you specify.

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Expert team | Trust guarantee | 100% satisfaction

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Find the *3D Systems / American Precision Industries 23BLS-03S-02* at our website: *Click HERE*

Brushless dc servo motors 23BLS series 2

Description



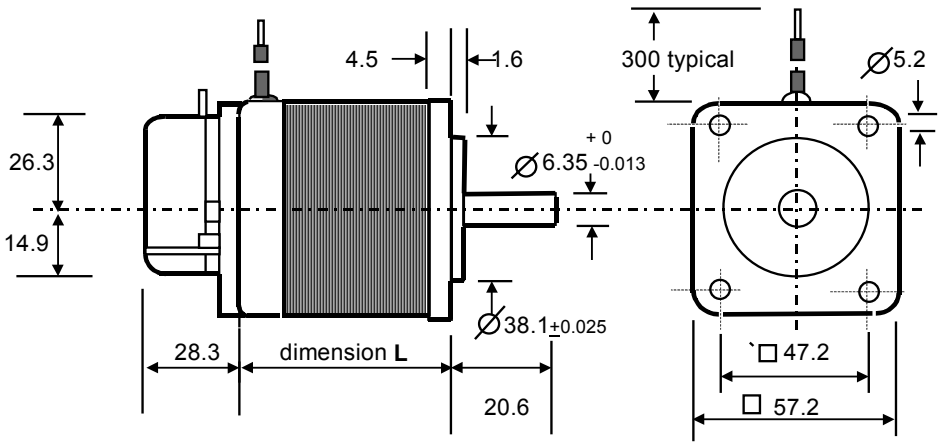
The 23BLS series 2 brushless servo motors provide a choice of size and performance with output power ratings up to 130 watts. Designed for incorporation in enclosed equipment the 23BLS series 2 motors provide a particularly economic solution to OEM users.

The brushless construction combined with high grade ball bearings provide an extended life in applications requiring variable speed or positional servo operation featuring rapid positioning.
The units utilise a 3 phase design with hall effect commutation combined with an incremental encoder to enable accurate digital control to be utilised. When operated in a positional control loop a positioning resolution of 2000 counts per revolution is obtained.

The 23BLS series motors are equipped with a mounting flange and shaft design compatible with the NEMA size 23 standard and therefore are physically interchangeable with hybrid stepper motors.

When used with IPM series integrated drives a complete motion system can easily be constructed.

Dimensions: mm



Performance & specifications

		Brushless servo motor options		
Performance using IPM series drive		**23BLS 121**	**23BLS-221**	**23BLS-321**
No Load speed	rpm	3,500	3,500	4,400
Speed @ rated torque	rpm	3000	3000	4000
Continuous torque @ rated speed	Nm	0.10	0.20	0.30
Peak torque	Nm	0.33	0.6	0.9
Output power	Watts	30	60	120
Motor specification				
Motor body length '**Dimension L'**	mm	55	75	95
Maximum allowable continuous speed	rpm	4,000	4,000	4,000
Continuous stall torque	Nm	0.14	0.27	0.39
Maximum peak torque	Nm	0.35	0.68	0.98
Torque constant	Nm/A dc	0.08	0.084	0.084
Rotor inertia	$Kgcm^2$	0.075	0.119	0.173

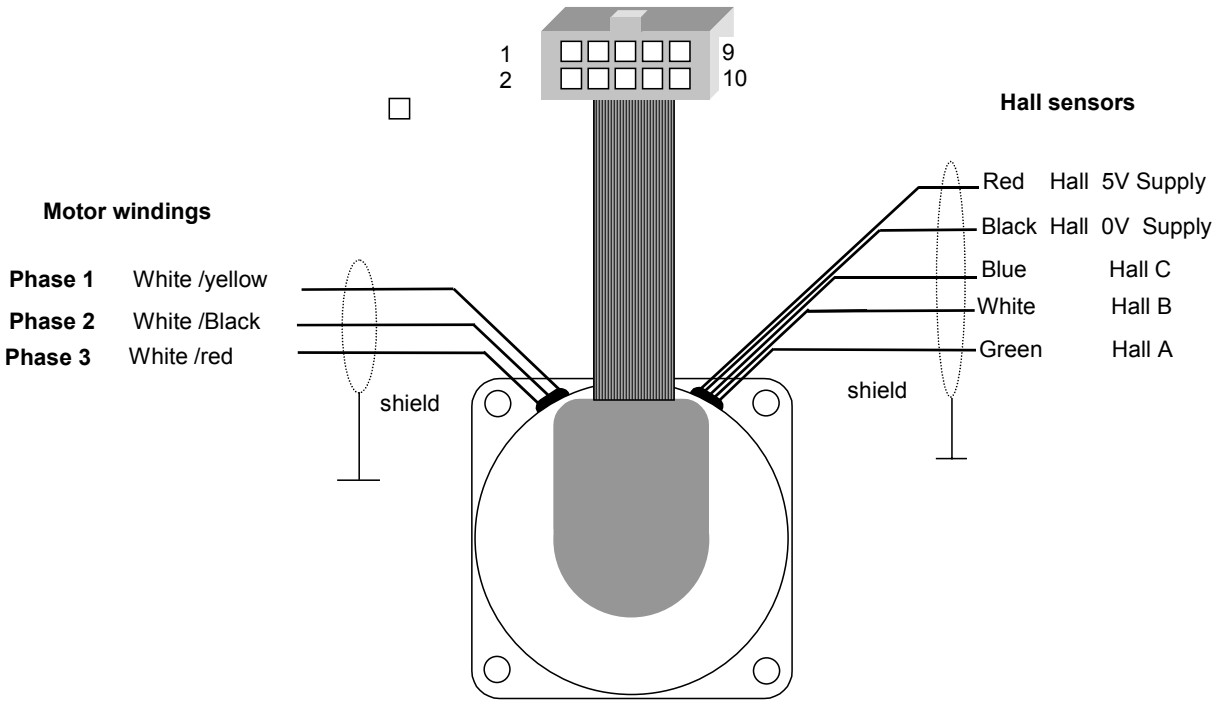
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Connections

Signal	Pin No
N / C	1
Supply +5V	2
Ground	3
N / C	4
A-	5
A+	6
B-	7
B+	8
Index -	9
Index +	10

Suitable Connectors
RS 471-109
471-020
482-115
482-193

Encoder



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