



Motor lead wire (310mm)

A	Black
Ā	Green
B	Red
B̄	Blue

Specifications

Specification	PBACL28-G01	PBACL28-G02	PBACL28-R01	PBACL28-R02	PBACL28-Re02	PBACL28-Re06
Motor Frame Size (mm)	28 (NEMA 11)					
Drive Screw Type	Precision Ball Screw		Rolled Ball Screw		Resin Lead Screw	
Screw Lead	1mm	2mm	1mm	2mm	2mm	6mm
Travel	40mm/80mm					
Repeatability	±0.005mm		±0.010mm		±0.030mm	
Lost Motion	0.010mm		0.020mm		0.060mm	
Maximum Speed	20mm/sec	40mm/sec	20mm/sec	40mm/sec	20mm/sec	60mm/sec
Accel/Decel Time	Min. 0.2 sec				Min. 0.4 sec	
Thrust Force	50N	25N	50N	25N	10N	2.5N
Mass	Travel 40mm : 230g Travel 80mm : 240g				Travel 40mm : 210g Travel 80mm : 220g	
Operating Temperature	0 ~ 40°C (no condensation)					

Motor Specification	PBACL28-G01	PBACL28-G02	PBACL28-R01	PBACL28-R02	PBACL28-Re02	PBACL28-Re06
Driving Method	2-phase bi-polar					
Rated Voltage	3.8V (DC)					
Rated Current	0.67A/phase					
Winding Resistance	5.6Ω					
Insulation Class	Class B (130°C)					

Precautions:

- CL type (non-captive type) does not have an anti-rotating device. External anti-rotating device should be set up during use.
- Specifications above are reference value measured in vertical position at virgin condition.
- Sensor is not built in this standard design

Part Numbering

PBA CL 28 G 01 040
1 2 3 4 5 6

- 1: Series Designation (PBA)
- 2: Cylinder type
CL: Non-Captive Type
AR: Captive Type
- 3: Motor frame size (mm)
- 4: Drive screw type
G: Precision Ball Screw
R: Rolled Ball Screw
Re: Resin Lead Screw

- 5: Screw Lead
01: 1mm
02: 2mm
06: 6mm
- 6: Travel, mm
040: 40mm
080: 80mm