



Motor lead wire (310mm)

A	Black
Ā	Green
B	Red
B̄	Blue

Specifications

Specification	PBACL42-G02	PBACL42-G05	PBACL42-R02	PBACL42-R05	PBACL42-Re02	PBACL42-Re05
Motor Frame Size (mm)	42 (NEMA 17)					
Drive Screw Type	Precision Ball Screw		Rolled Ball Screw		Resin Lead Screw	
Screw Lead	2mm	5mm	2mm	5mm	2mm	5mm
Travel	50mm/100mm					
Repeatability	±0.005mm		±0.010mm		±0.030mm	
Lost Motion	0.010mm		0.020mm		0.060mm	
Maximum Speed	40mm/sec	100mm/sec	40mm/sec	100mm/sec	20mm/sec	50mm/sec
Accel/Decel Time	Min. 0.2 sec				Min. 0.4 sec	
Thrust Force	80N	30N	80N	30N	20N	10N
Mass	Travel 50mm : 530g Travel 100mm : 550g				Travel 50mm : 490g Travel 100mm : 510g	
Operating Temperature	0 ~ 40°C (no condensation)					

Motor Specification	PBACL42-G02	PBACL42-G05	PBACL42-R02	PBACL42-R05	PBACL42-Re02	PBACL42-Re05
Driving Method	2-phase bi-polar					
Rated Voltage	2.5V (DC)					
Rated Current	1.2A/phase					
Winding Resistance	2.1Ω					
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 42 G 02 040
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
02: 2mm
05: 5mm
6: Travel, mm
050: 50mm
100: 100mm