

PJP42T34D16

□42 size 2-phase hybrid stepping motor

□42 size 2-phase hybrid stepping motor. 1.2A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

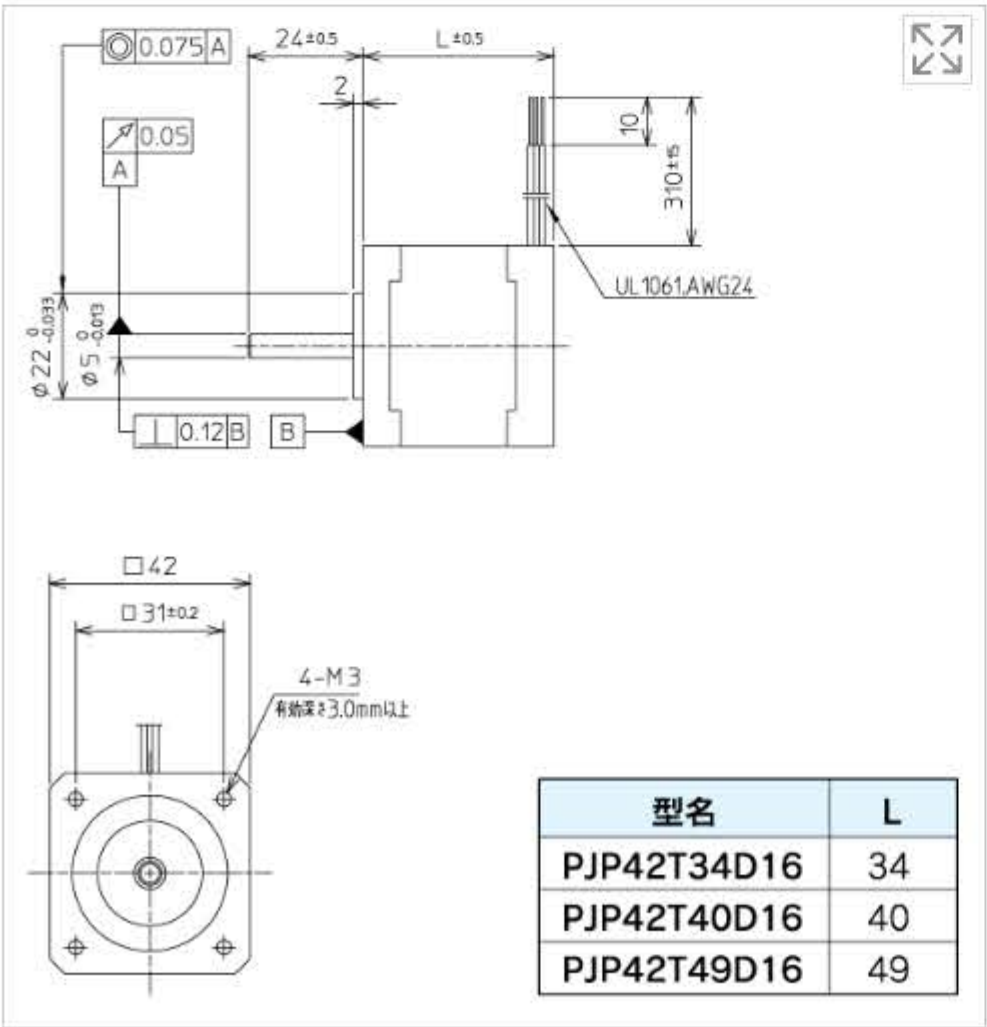
It is useful when PM type stepping motors do not provide sufficient resolution or torque.



specification

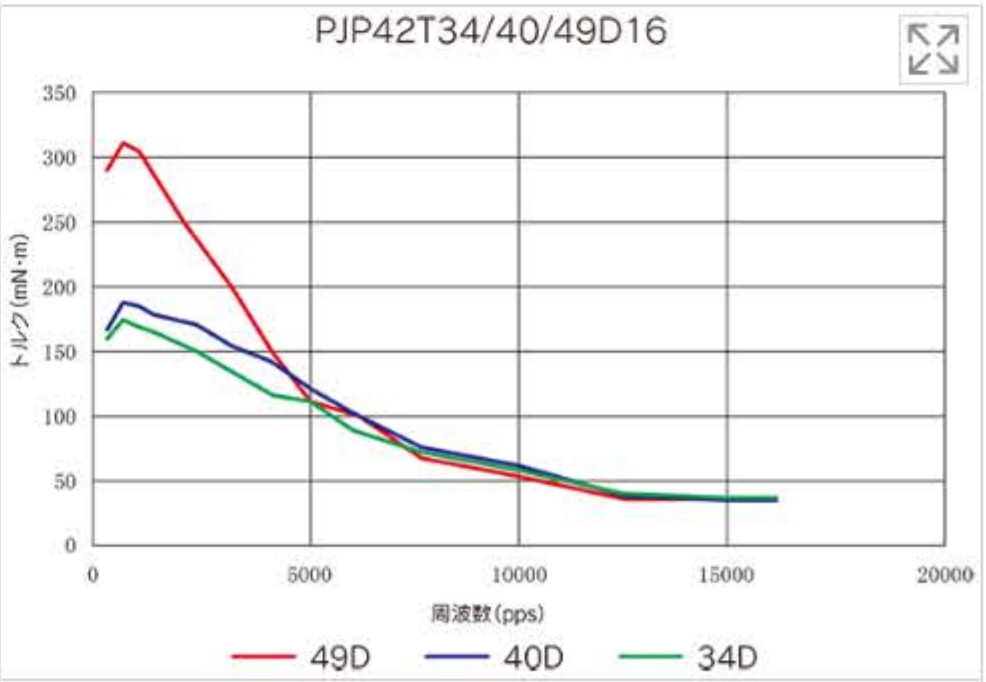
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	2.88
Rated current	A/phase	1.2
Wirewinding resistance	Ω/phase	2.4
Winding resistance error	%	±10
Winding inductance	mH/phase	2.7
Maximum static torque	mN・m	210
Detent torque (reference value)	mN・m	17
Rotor inertia	kg・m ²	36×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	42
mass	g	240
Motor length	mm	34
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 1.2A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP42T40D16

□42 size 2-phase hybrid stepping motor

□42 size 2-phase hybrid stepping motor. 1.2A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

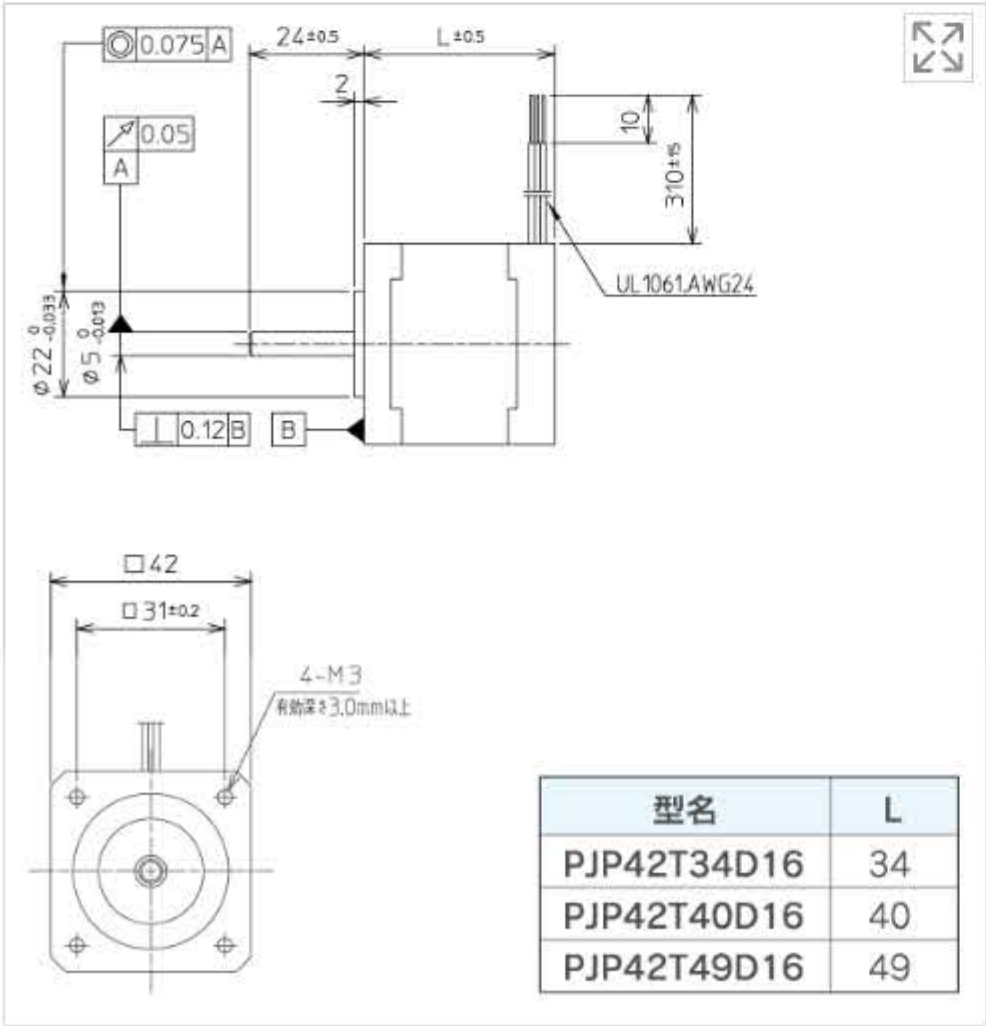
It is useful when PM type stepping motors do not provide sufficient resolution or torque.



specification

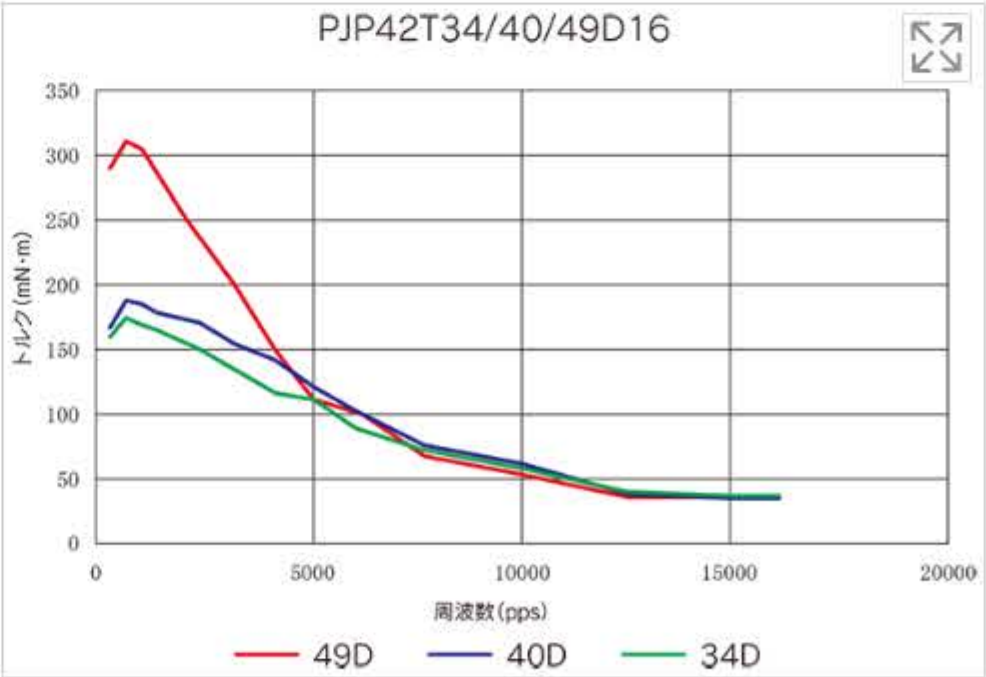
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	3.60
Rated current	A/phase	1.2
Wirewinding resistance	Ω/phase	3
Winding resistance error	%	±10
Winding inductance	mH/phase	2.8
Maximum static torque	mN・m	250
Detent torque (reference value)	mN・m	33
Rotor inertia	kg・m ²	56×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	42
mass	g	300
Motor length	mm	40
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 1.2A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP42T49D16

□42 size 2-phase hybrid stepping motor

□42 size 2-phase hybrid stepping motor. 1.2A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

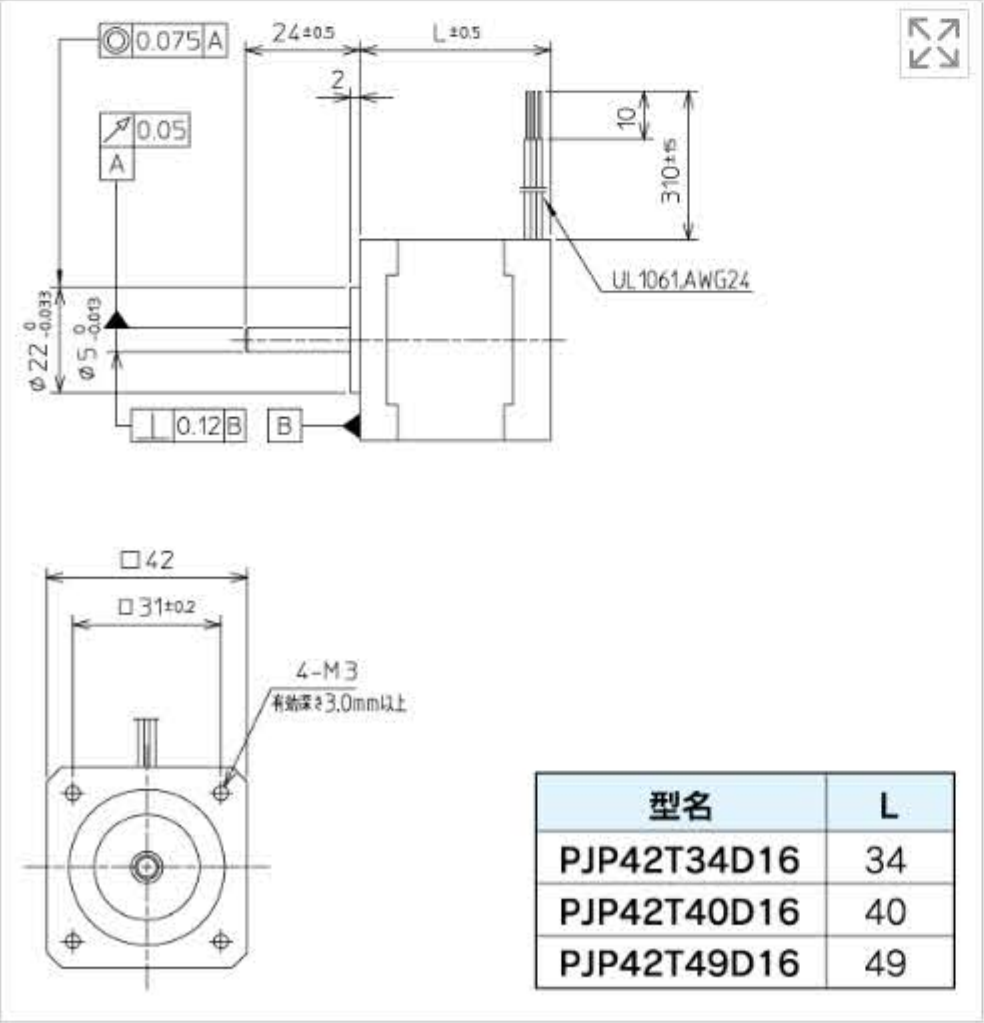
It is useful when PM type stepping motors do not provide sufficient resolution or torque.



specification

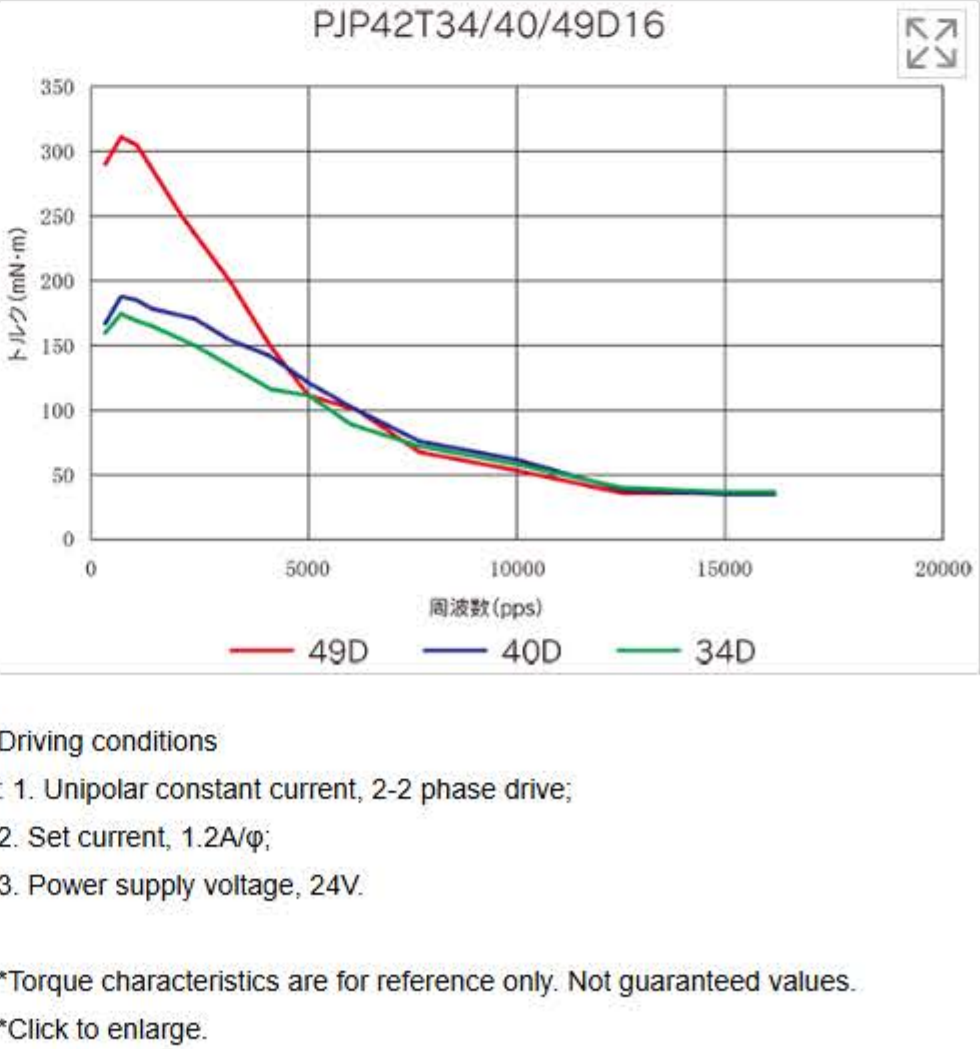
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	3.96
Rated current	A/phase	1.2
Wirewinding resistance	Ω/phase	3.3
Winding resistance error	%	±10
Winding inductance	mH/phase	4
Maximum static torque	mN・m	370
Detent torque (reference value)	mN・m	twenty five
Rotor inertia	kg・m ²	74×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	42
mass	g	400
Motor length	mm	49
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



PJP56T44A16

□56 size 2-phase hybrid stepping motor

□ 56 size 2-phase hybrid stepping motor. 2.0A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

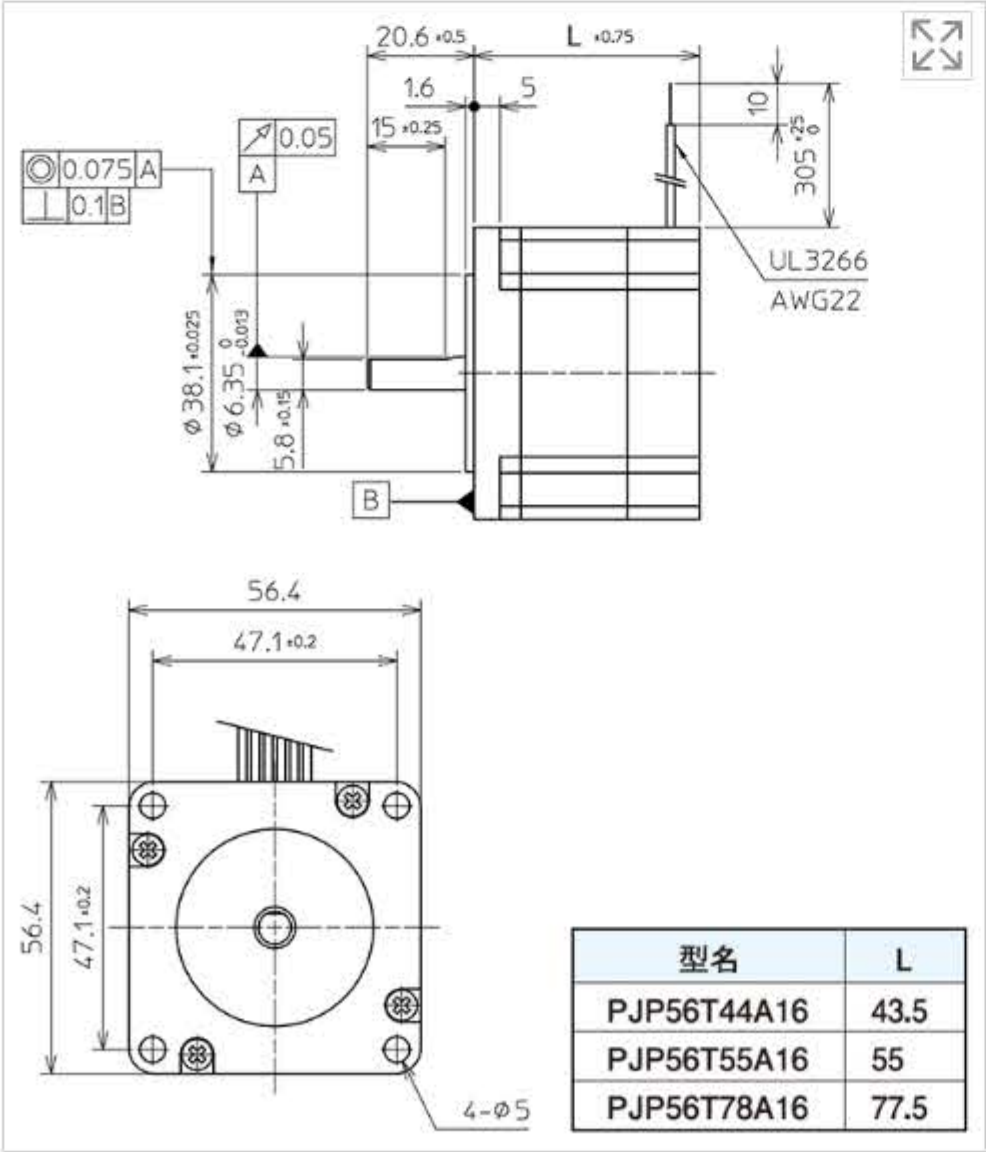
It is useful when PM type stepping motors do not provide sufficient resolution or torque.



specification

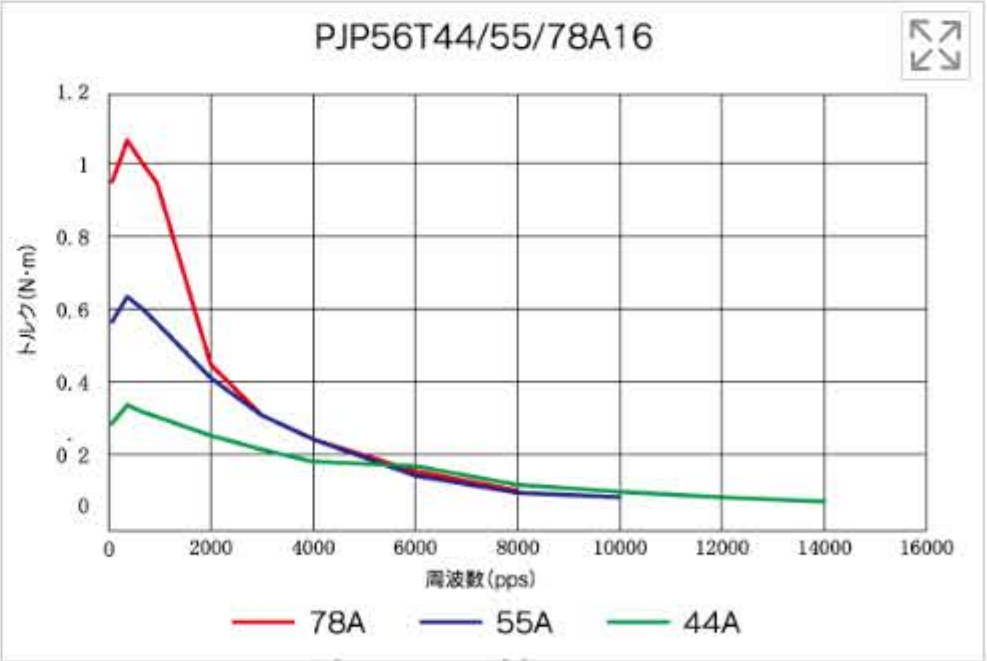
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	2.80
Rated current	A/phase	2
Wirewinding resistance	Ω/phase	1.4
Winding resistance error	%	±10
Winding inductance	mH/phase	1.45
Maximum static torque	mN・m	400
Detent torque (reference value)	mN・m	-
Rotor inertia	kg・m ²	120×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	56
mass	g	470
Motor length	mm	44
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 2.0A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP56T55A16

□56 size 2-phase hybrid stepping motor

□ 56 size 2-phase hybrid stepping motor. 2.0A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

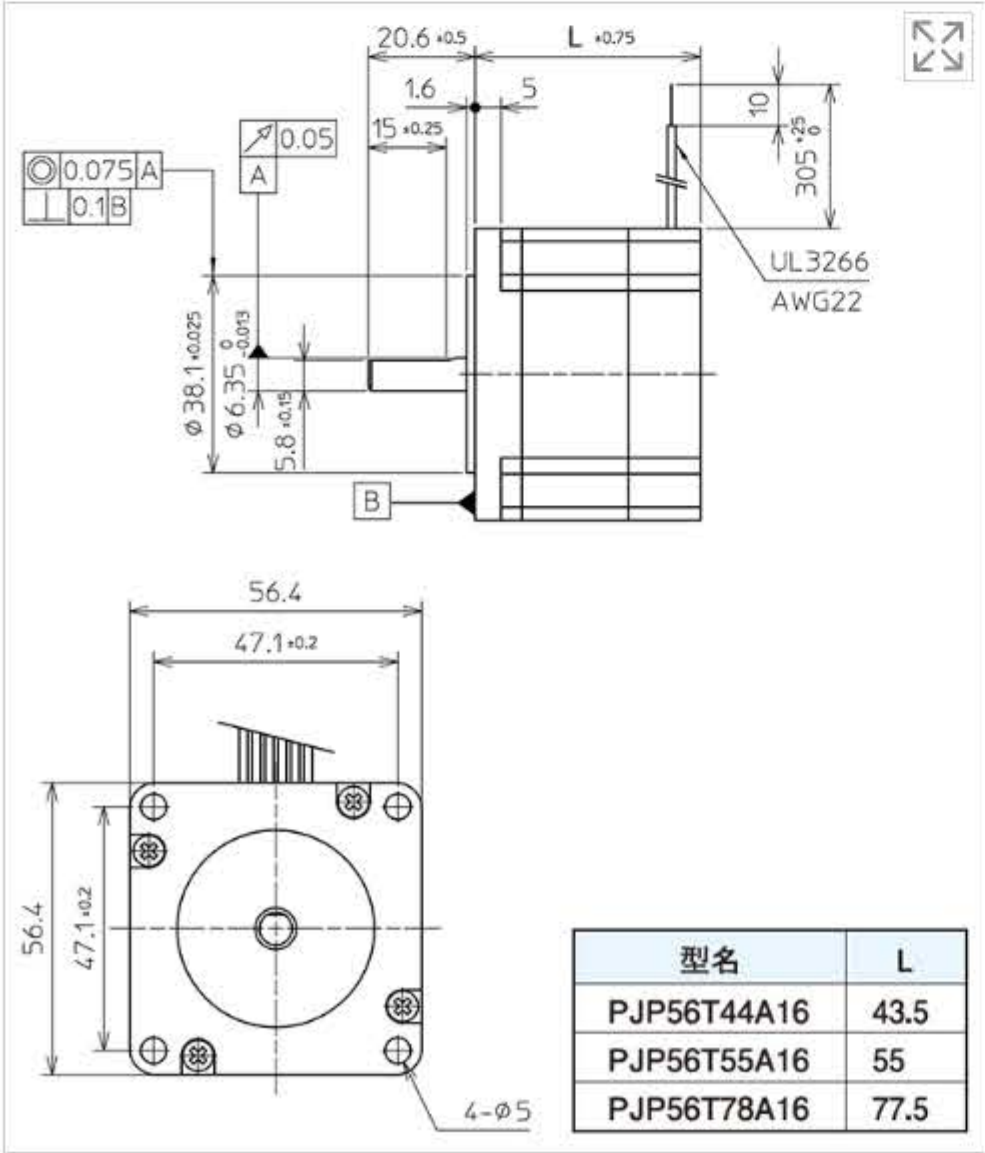
It is useful when PM type stepping motors do not provide sufficient resolution or torque.



specification

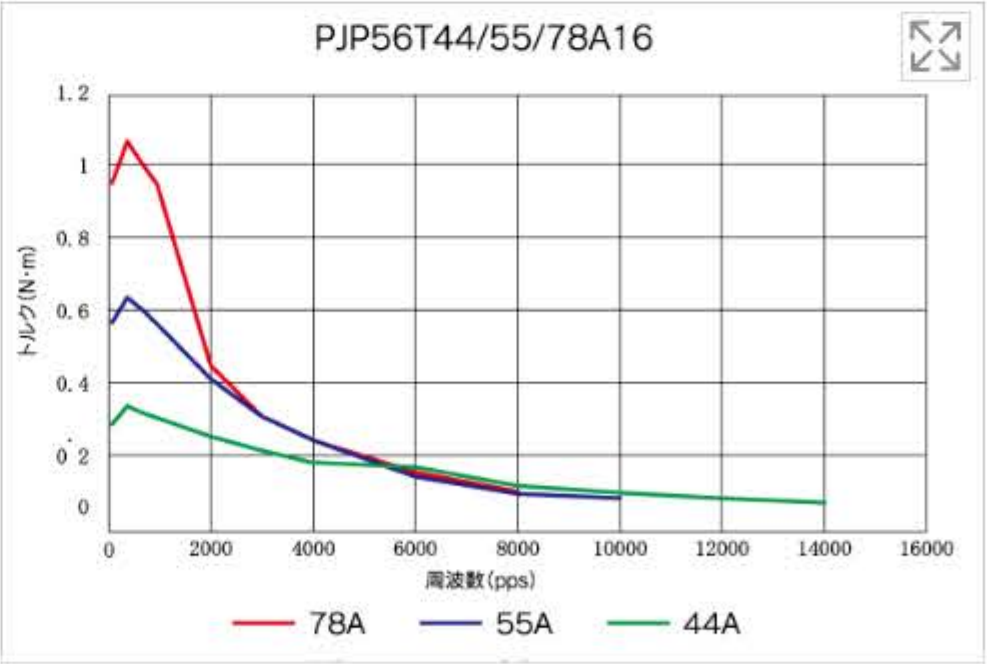
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	3.60
Rated current	A/phase	2
Wirewinding resistance	Ω/phase	1.8
Winding resistance error	%	±10
Winding inductance	mH/phase	3.3
Maximum static torque	mN・m	850
Detent torque (reference value)	mN・m	-
Rotor inertia	kg・m ²	280×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	56
mass	g	700
Motor length	mm	55
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 2.0A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP56T78A16

□56 size 2-phase hybrid stepping motor

□ 56 size 2-phase hybrid stepping motor. 2.0A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

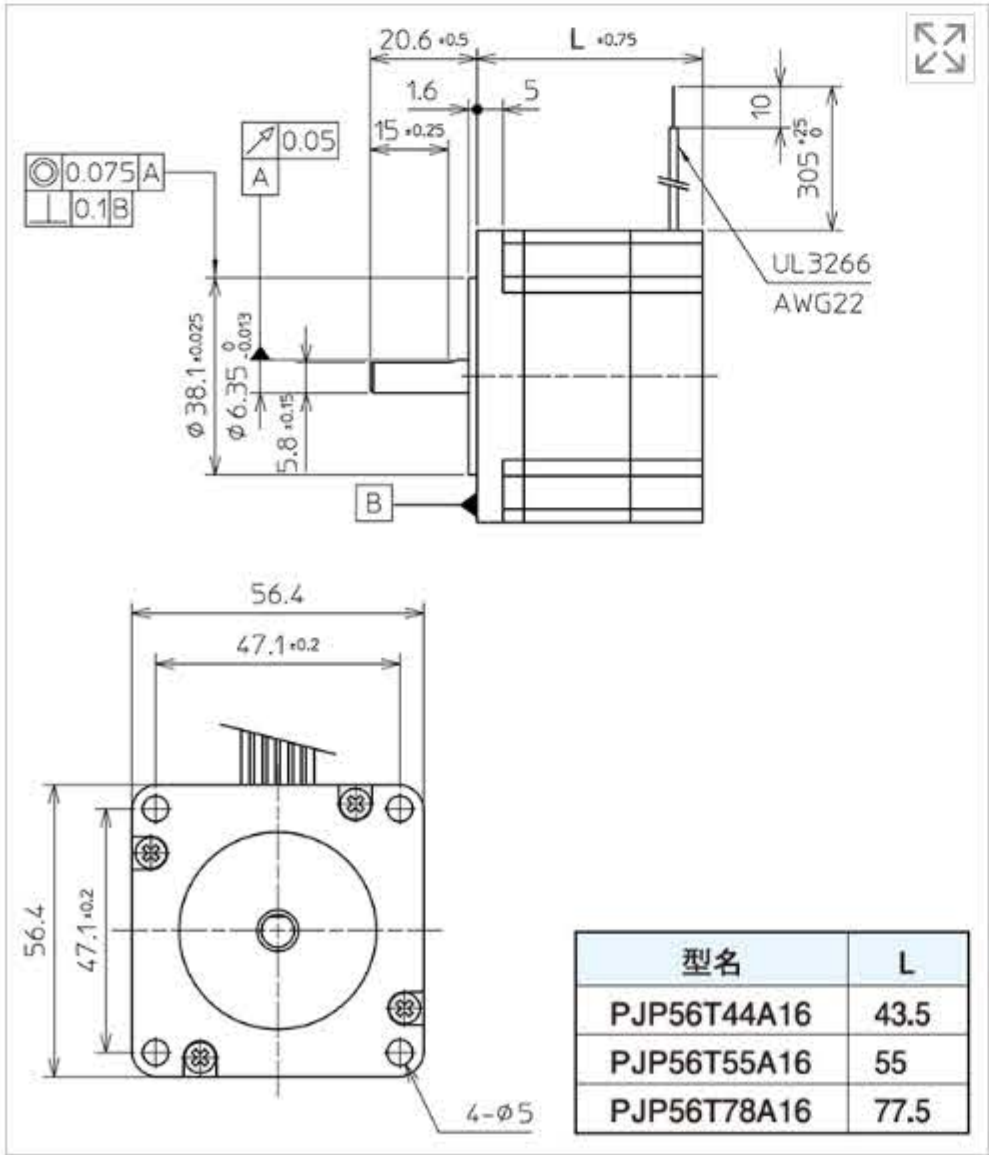
It is useful when PM type stepping motors do not provide sufficient resolution or torque.



specification

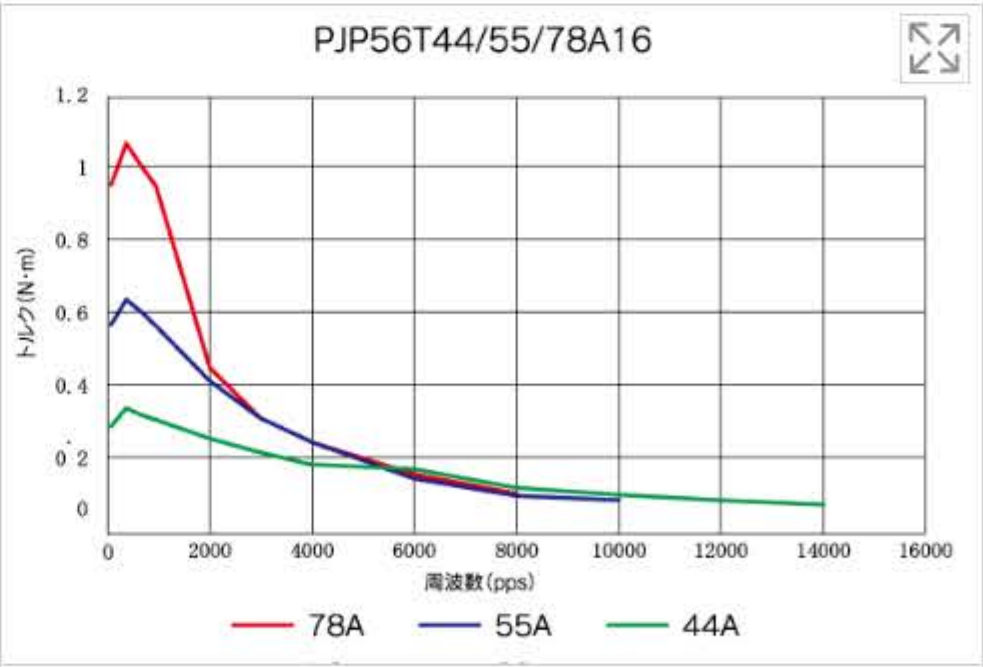
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	4.50
Rated current	A/phase	2
Wirewinding resistance	Ω/phase	2.25
Winding resistance error	%	±10
Winding inductance	mH/phase	4.1
Maximum static torque	mN·m	1300
Detent torque (reference value)	mN·m	-
Rotor inertia	kg·m ²	480×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	56
mass	g	1000
Motor length	mm	78
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 2.0A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP28T32E16

□28 size 2-phase hybrid stepping motor

□28-size 2-phase hybrid stepping motor. 0.95A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

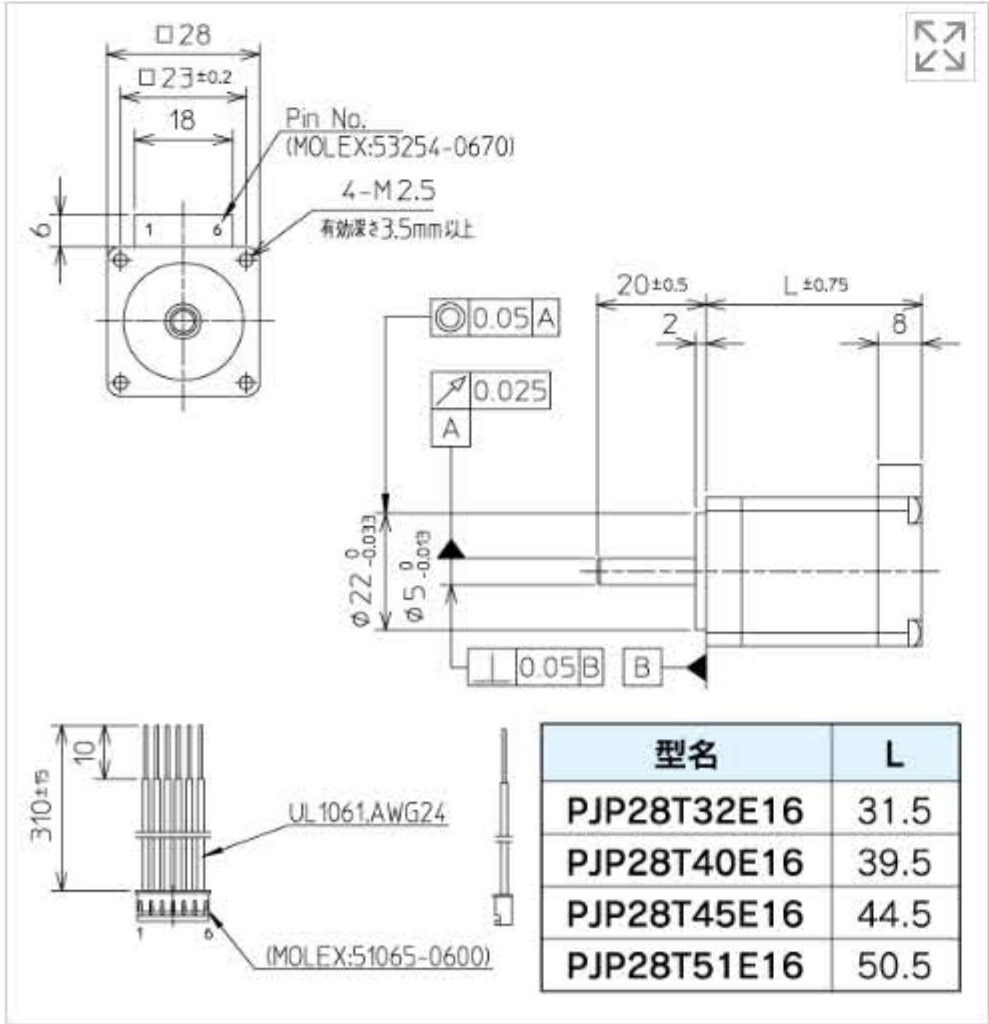
It is useful when PM-type stepping motors do not offer sufficient resolution or torque.



specification

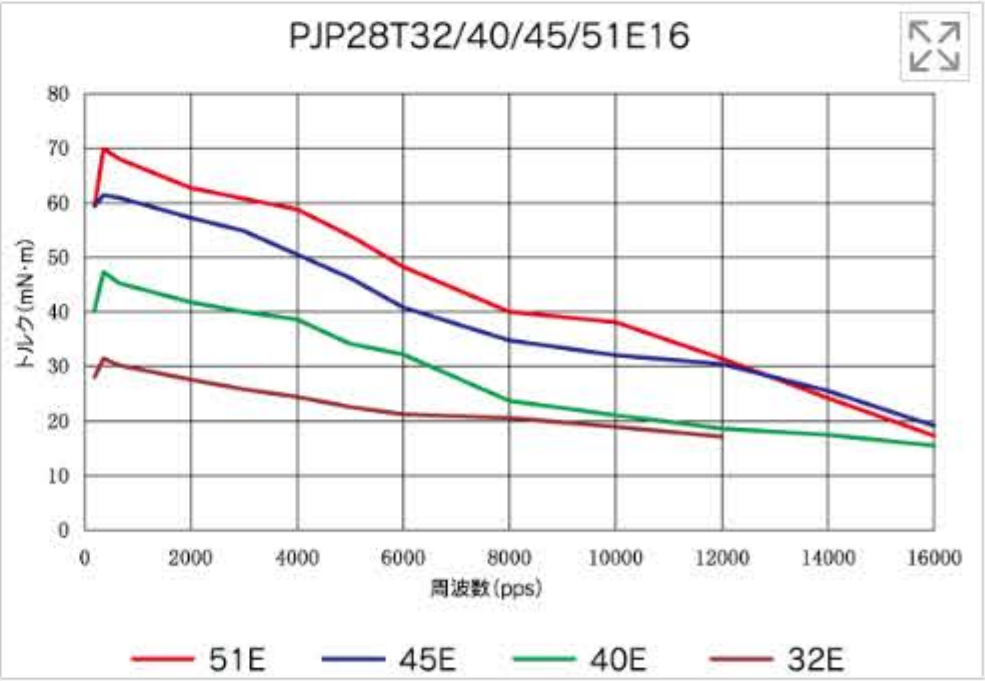
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	2.66
Rated current	A/phase	0.95
Wirewinding resistance	Ω/phase	2.8
Winding resistance error	%	±10
Winding inductance	mH/phase	1.2
Maximum static torque	mN・m	45
Detent torque (reference value)	mN・m	4
Rotor inertia	kg・m ²	9×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	28
mass	g	110
Motor length	mm	32
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 0.95A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP28T series



HB type stepping motor



PJP28T40E16

□28 size 2-phase hybrid stepping motor

□28-size 2-phase hybrid stepping motor. 0.95A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

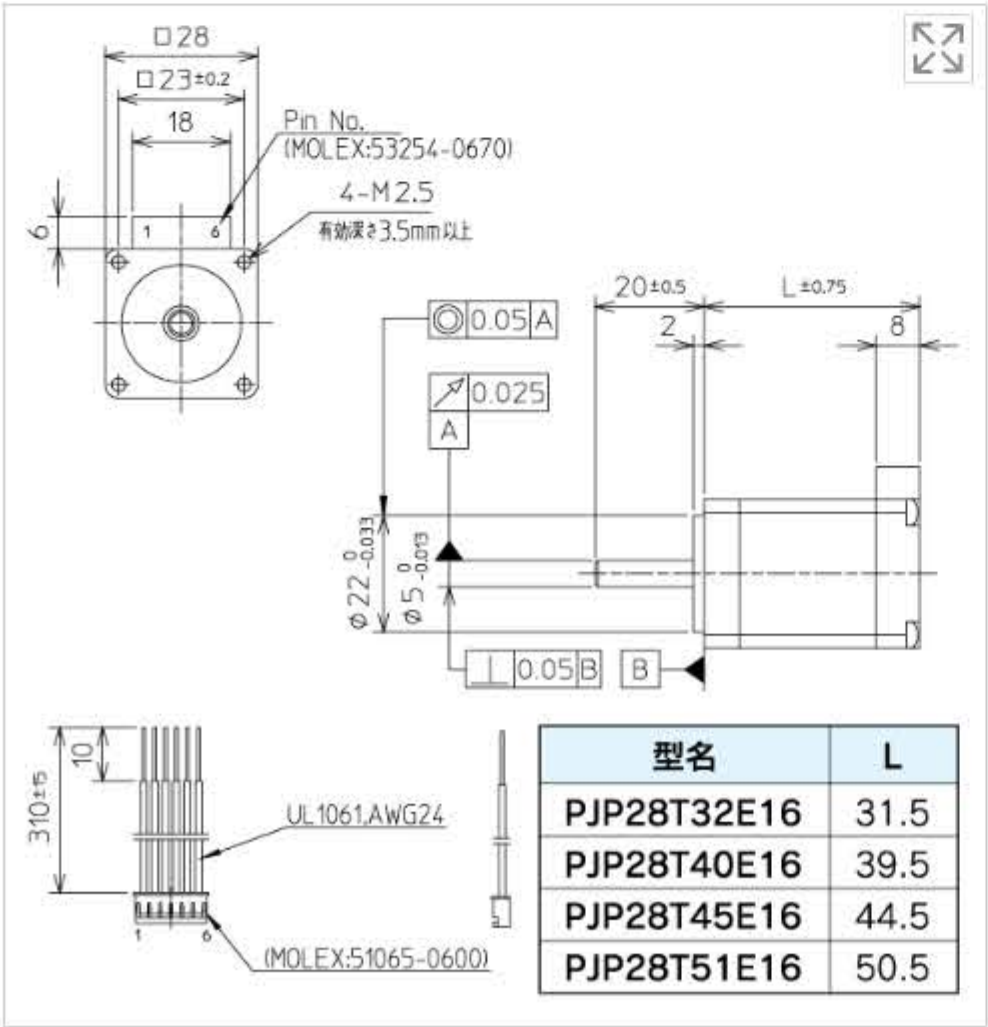
It is useful when PM-type stepping motors do not offer sufficient resolution or torque.



specification

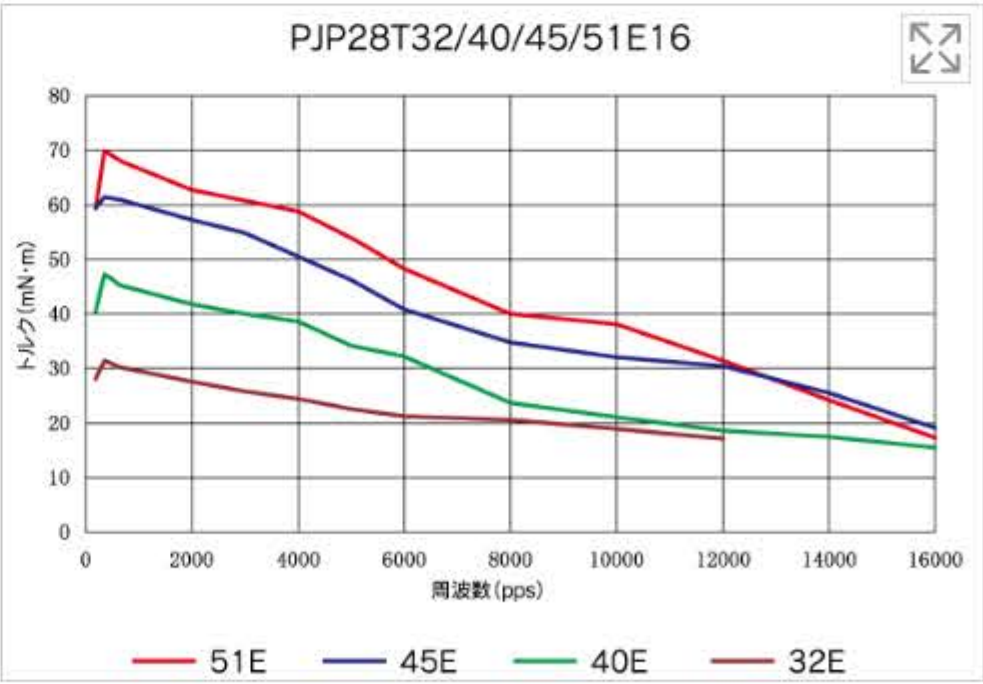
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	3.23
Rated current	A/phase	0.95
Wirewinding resistance	Ω/phase	3.4
Winding resistance error	%	±10
Winding inductance	mH/phase	1.8
Maximum static torque	mN・m	60
Detent torque (reference value)	mN・m	4.5
Rotor inertia	kg・m ²	12 × 10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	28
mass	g	150
Motor length	mm	40
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 0.95A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP28T45E16

□28 size 2-phase hybrid stepping motor

□28-size 2-phase hybrid stepping motor. 0.95A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

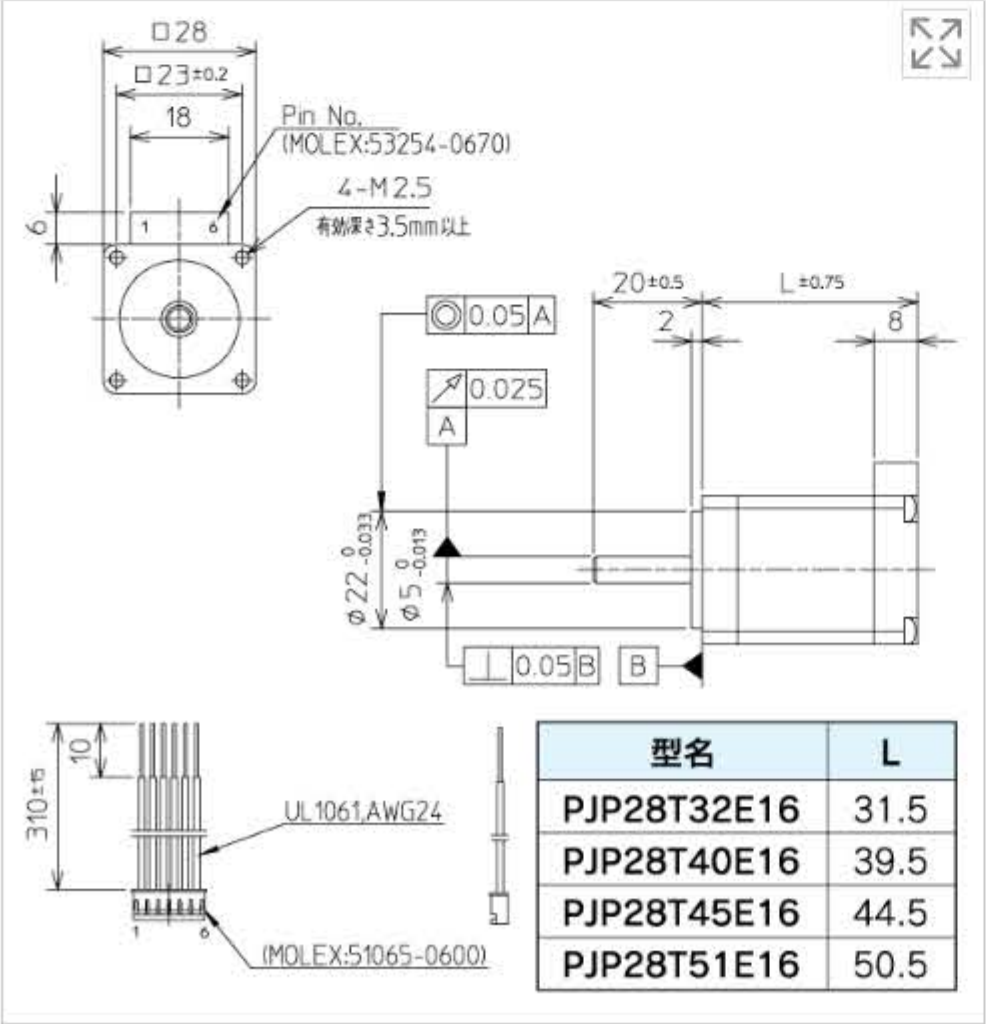
It is useful when PM-type stepping motors do not offer sufficient resolution or torque.



specification

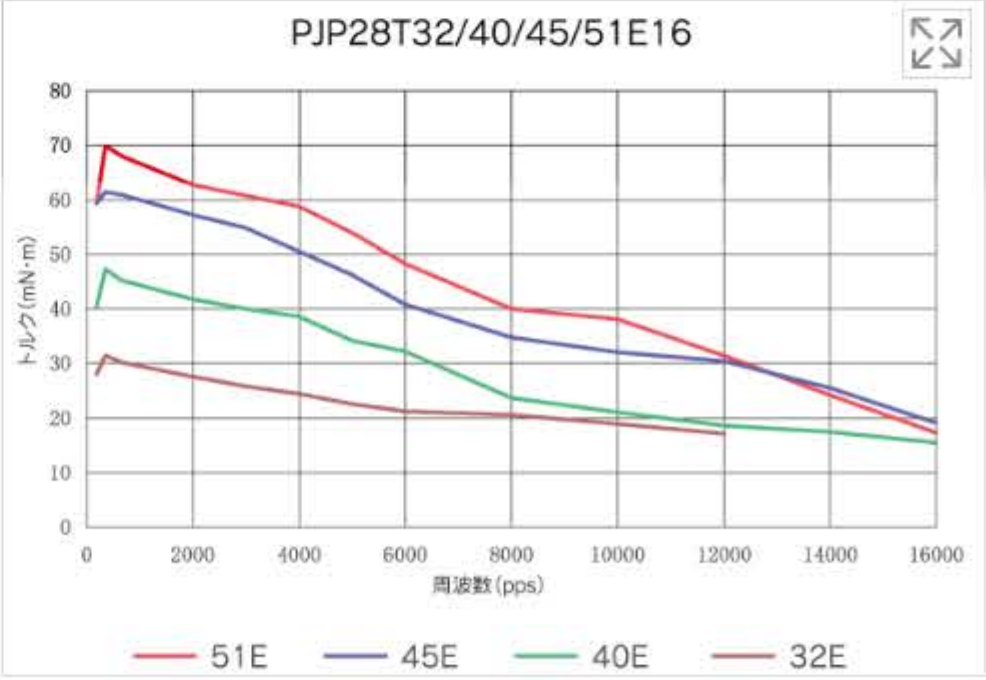
Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	3.71
Rated current	A/phase	0.95
Wirewinding resistance	Ω/phase	3.9
Winding resistance error	%	±10
Winding inductance	mH/phase	1.7
Maximum static torque	mN・m	75
Detent torque (reference value)	mN・m	6.5
Rotor inertia	kg・m ²	14×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	28
mass	g	170
Motor length	mm	45
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 0.95A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.

PJP28T51E16

□28 size 2-phase hybrid stepping motor

□28-size 2-phase hybrid stepping motor. 0.95A/phase.
This is a high-resolution, high-torque hybrid stepping motor.

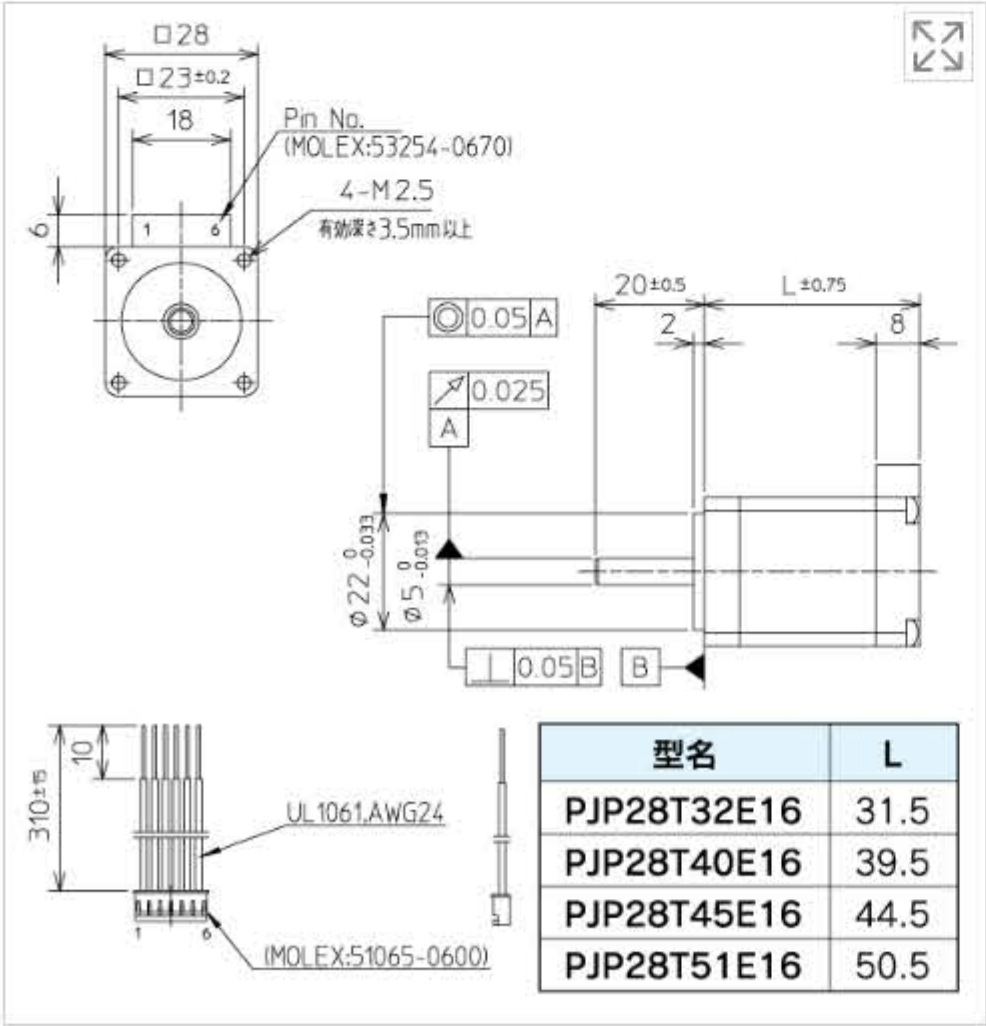
It is useful when PM-type stepping motors do not offer sufficient resolution or torque.



specification

Number of phases		2
Step angle	deg. / step	1.8
Step angle error	%	±5
Number of steps		200
Excitation method		2-2
Winding specifications		Unipolar
Rated voltage	V	4.37
Rated current	A/phase	0.95
Wirewinding resistance	Ω/phase	4.6
Winding resistance error	%	±10
Winding inductance	mH/phase	2
Maximum static torque	mN・m	90
Detent torque (reference value)	mN・m	9
Rotor inertia	kg・m ²	17×10 ⁻⁷
Operating temperature range	deg. C	-10 to +50
Storage temperature range	deg. C	-20 to +80
Motor external dimensions	mm	28
mass	g	195
Motor length	mm	51
Insulation Classification		B
Insulation resistance	MΩ	100
Dielectric strength	VAC	500V, 1 min.
RoHS		correspondence

Outline drawing



*Click to enlarge.

Torque characteristics (pull-out torque)



Driving conditions
: 1. Unipolar constant current, 2-2 phase drive;
2. Set current, 0.95A/φ;
3. Power supply voltage, 24V.

*Torque characteristics are for reference only. Not guaranteed values.
*Click to enlarge.