

Product Information

PRECAUTIONS TO BE TAKEN WHEN USING

1. Note that any use of our products out of their standard and specifications might markedly reduce their performance and service life. Draw your due attention especially to the voltage and other use ranges.
2. Storage of the motors in such places as exposed to high temperature and humidity as well as to extremely low temperature may cause to decrease motor's performance and longevity, which should be avoided as far as possible.
3. Never fail to check the loads applied, circuitry, etc. before you use the motors. It is recommendable to have preliminary arrangements with us before you proceed to your own designing of your equipment.

WHEN ORDERING

In order that we may discuss the characteristics and economy of your equipment, you are requested to inform us of the following items :

1. Features

- Rated voltage
- Step angle
- Pull-in torque(at_PPS)
- Pull-out torque(at_PPS)
- Drive circuit
 - Voltage, Current(_A/Phase)
 - Use IC
- Excitation and drive methods
 - Single-phase, two-phase, Single/two-phase, other
 - Unipolar, Bipolar
 - Chopper current
- Use temperature range

2. Outer Diameter

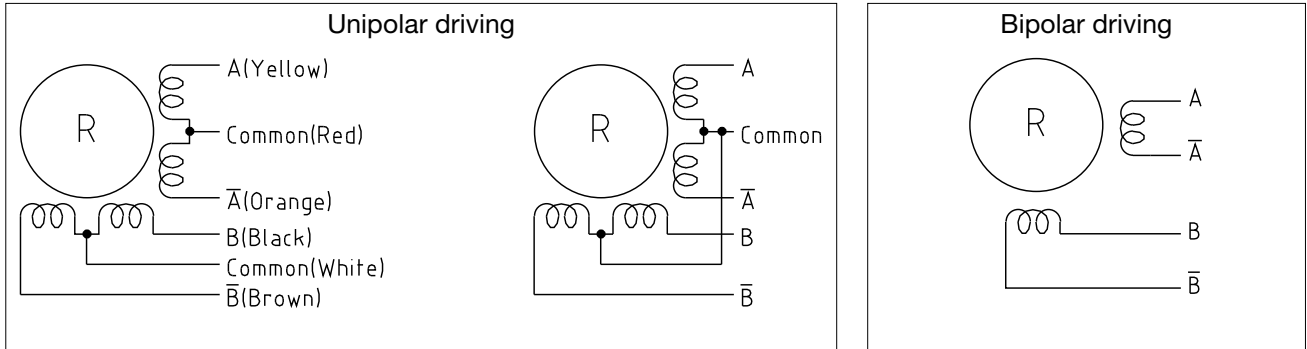
- Shaft diameter and length
- Motor outer diameter, overall length

3. Others

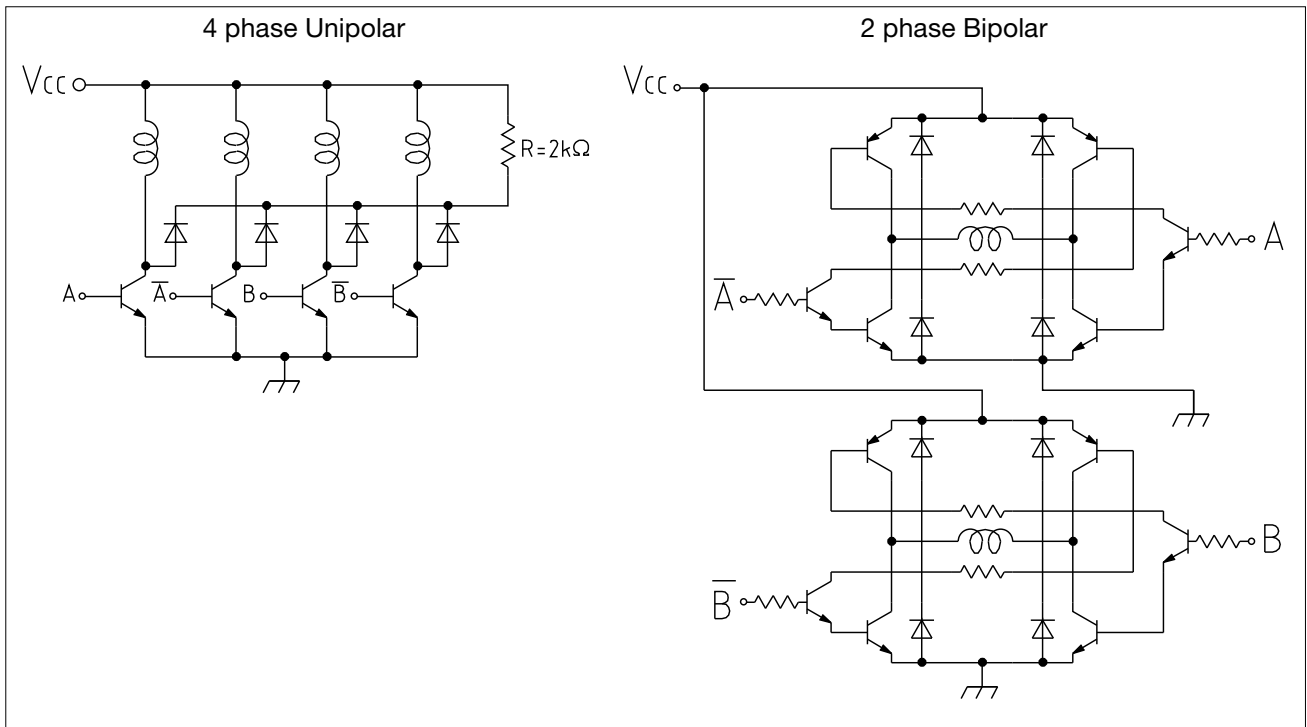
- Use
- Mass production planning
- Mass production period
- Monthly production
- Total number of projects
- Anticipated prices

GENERAL DESCRIPTION

LEAD WIRE CONNECTION



DRIVING CIRCUITS



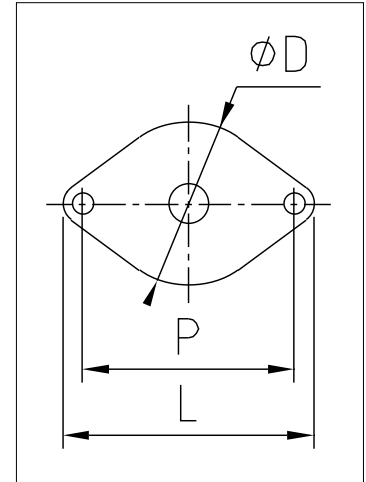
SPECIAL SPECIFICATIONS

Coil resistance.
Shaft dimensions.
Pinion.
Mounting plate.
Lead wire length and connectors.

• Any products mentioned in this catalog are subject to any modification in their appearance and others for improvements without prior notification.
 • The details listed here are not a guarantee of the individual products at the time of ordering. When using the products, you will be asked to check their specifications.

STANDARD FLANGE DIMENSIONS

Type	P	L	ϕD	Mounting	Model
M10SP	15 \pm 0.2	19.3 \pm 0.5	10	ϕ 2.3 Hole	-2N
M15SP	20 \pm 0.2	24.5 \pm 0.5	15	ϕ 2.2 Hole	-1N, -2N
M25SP Series	32 \pm 0.2	38 \pm 0.5	25	ϕ 3.2 Hole M3 Burring	-3N, -4N, -5N, -6NK
M35SP Series	42 \pm 0.2	49.2 \pm 0.5	35	ϕ 3.5 Hole ϕ 2.75 Burring M3 Burring	-9, -9NK, -10N, -11NK, -12, 14NK, -15, -15K
M42SP Series	49.5 \pm 0.2	56.5 \pm 0.5	42	ϕ 3.5 Hole	-5, -5K, -6NK, -13NK
				ϕ 2.75 Burring	
		M3 Burring			
		ϕ 3.5 Hole			
		56.7 \pm 0.5		M3 Burring	
M49SP Series	56.5 \pm 0.2	64 \pm 0.5	49	M3 Burring	-2K, -3KA
	57.5 \pm 0.2			ϕ 4.0 Hole	
	59.5 \pm 0.2			ϕ 5.0 Hole	



STANDARD OUTER DIMENSIONS

Model	$\phi D1$	L1	$\phi d1$	$\phi d2$	L2	Step Angle
M10SP-2N	10	10.4	5	1.5	0.5	18°
M15SP-1N	15	10.5	6	1.5	0.8	18°
M15SP-2N		19.7				
M25SP-6NK	25	9	10	2	1	7.5°
M25SP-5N		12				
M25SP-3N		15	7		1.5	
M25SP-4N						
M35SP-11NK	35	8.7	10	2	1.5	3.75°
M35SP-14NK		14.5				7.5°
M35SP-9NK						
M35SP-10N		15.9				7.5°
M35SP-9						
M35SP-12, -15, -15K						
M42SP-13NK	42	17.7	10	3	1.5	3.75°
M42SP-6NK		23				7.5°
M42SP-5, -5K						
M49SP-2K, -3KA	49	29.5	10	3	1.5	7.5°

