MV Series
Miniature Basic Switch

◆ Features
- ✓ Durable and economical miniature switch
- ✓ Universal electromechanical limiting applications
- ✓ High temp. resist variants using high grade V-0 materials
- ✓ Forms C, A, and B contact variations available

◆ Recognition(s)
- ✓ CE – EN61058-1
- ✓ UL – UL-508
- ✓ CCC – GB14048.5-2008
- ✓ CSA – C22.2 No.14
- ✓ RoHS Compliant



◆ Characteristics

Positive Opening	Electrical Contact	Terminal Type	Contact Form(s)	Poles & Throws	Actuation Sequence(s)
No	2 or 3 Points	Quick connect (#187)	Form(s) C, A or B	SPDT, or SPST-NO, or SPST-NC	Break(1) Make(2) or single make or single break

Operating Temp.	AC Rated	DC Rated	IP	Oil Resist	Dust Resist	Water Resist	Operating Speed
-25 to 80 Celsius, -25 to 120 Celsius	5A 125V-250V, 15A 125V-250V	0.5A 125V	40	No	No	No	0.01mm to 1m/sec

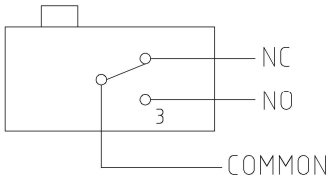
Operation Frequency	Contact Resistance	Insulation Resistance	Vibration
Mechanically: 600/min Electrically: 60/min	15mΩ max. (initial)	100MΩ min. (500VDC)	1.5mm amplitude at 10-55Hz

Storage Humidity	Service Life (min.)	Dielectric Strength
85% RH max	Mechanically: 5,000,000 operations Electrically: 500,000 operations	1000VAC, 50/60Hz for 1 minute between non-continuous terminals

Recommended tightening forces

Purpose	Screw type	Tightening
Mounting	M3	0.39~0.59N·m

Circuitry



◆ Materials

Actuation touch part	Electrical contact point	Enclosure
Stainless Steel, or Phenolic, or POM thermoplastic, or Nickel-plated brass	Silver-Nickel Alloy	PC plastic with ABS

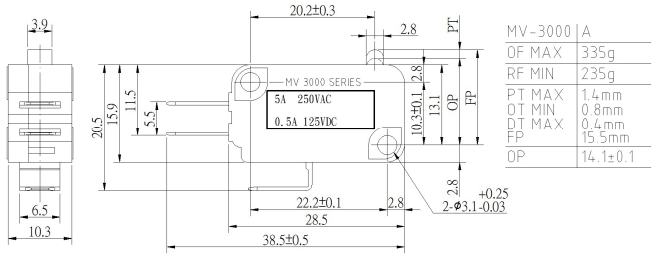
◆ Nomenclature

Series:	Actuator (and material):	Operating Force:	Amp code:	Contact Form:
MV –	**3003**	**A**		**– NO**
	3000 = Phenolic Plunger 3001 = Metallic Lever, simulated roller 3002 = Metallic Lever, straight 3003 = Metallic Lever, straight long 3003L = Metallic Lever, straight long 55.5mm 3004 = Lever, nickel-plated brass roller 3005 = Lever, nickel-plated brass roller, long V-0 fire resist (120C temp.) 3100 = Phenolic Plunger 3101 = Metallic Lever, simulated roller 3102 = Metallic Lever, straight 3103 = Metallic Lever, straight long 3104 = Lever, nickel-plated brass roller 3105 = Lever, nickel-plated brass roller, long	A=Standard	*Blank*=5 Amps 20=15 Amps	*Blank*=Form C NO=Form A NC=Form B

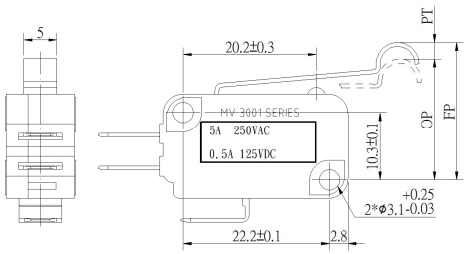
CUSTOM
MV-3004A-P = Lever, POM roller
MV-3005A-P = Lever, POM roller, long

◆ Dimensions & Operating Characteristics

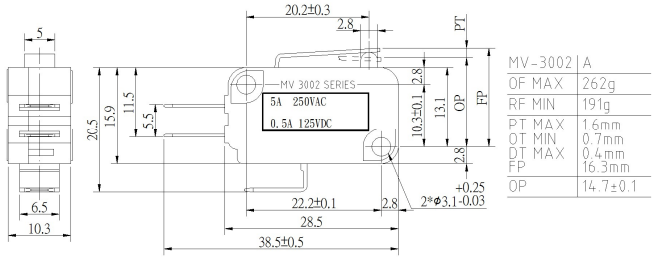
*Measurements in *millimeters*



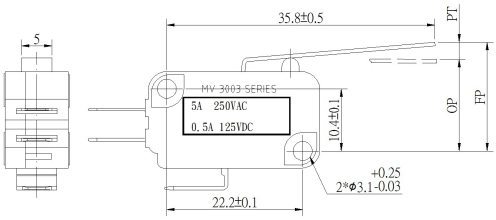
MV-3000	A
OF MAX	335g
RF MIN	235g
PT MAX	1.4mm
OT MIN	0.8mm
DT MAX	0.4mm
FP	15.5mm
OP	14.1±0.1



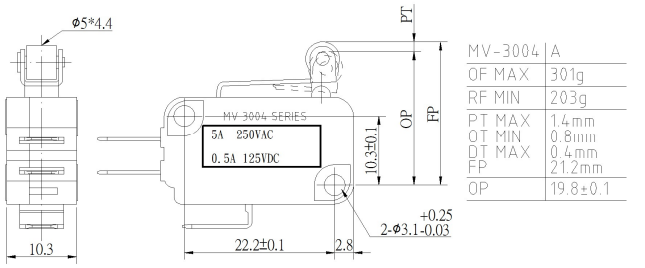
MV-3001	A
OF MAX	288g
RF MIN	110g
PT MAX	2.5mm
OT MIN	1.8mm
DT MAX	0.7mm
FP	20.9mm
OP	18.4±0.1



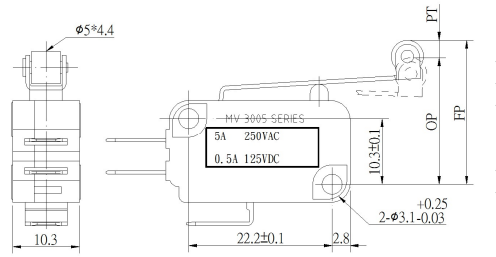
MV-3002	A
OF MAX	262g
RF MIN	191g
PT MAX	1.6mm
OT MIN	0.7mm
DT MAX	0.4mm
FP	16.3mm
OP	14.7±0.1



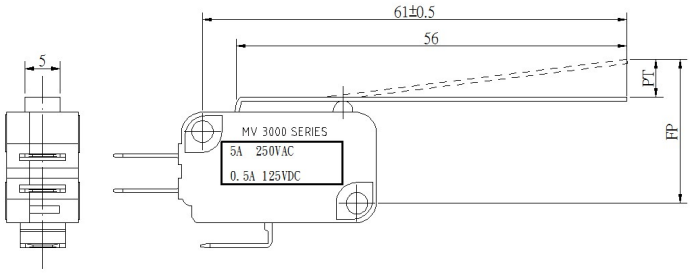
MV-3003	A
OF MAX	175g
RF MIN	102g
PT MAX	2.8mm
OT MIN	1.7mm
DT MAX	0.8mm
FP	17.9mm
OP	15.1±0.1



MV-3004	A
OF MAX	301g
RF MIN	203g
PT MAX	1.4mm
OT MIN	0.8mm
DT MAX	0.4mm
FP	21.2mm
OP	19.8±0.1



MV-3005	A
OF MAX	175g
RF MIN	102g
PT MAX	2.7mm
OT MIN	2.3mm
DT MAX	0.7mm
FP	22.4mm
OP	19.7±0.1



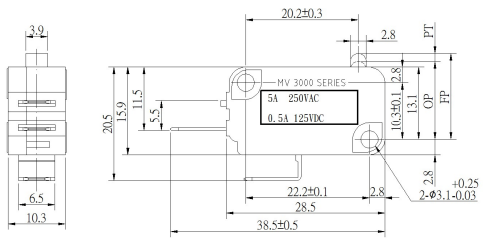
MV-3003L	A
OF MAX	112g
RF MIN	60g
PT MAX	6.2mm
OT MIN	4.2mm
DT MAX	1.5mm
FP	20.6mm
OP	14.4±1.2



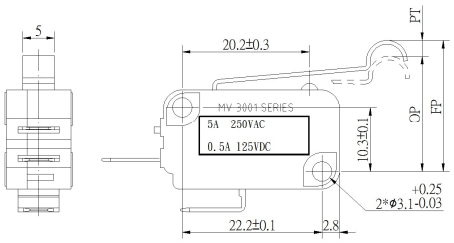
MV-3003AL



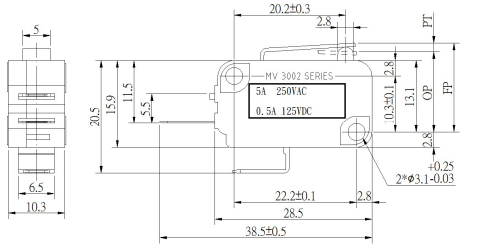
MV-3000A MV-3001A MV-3002A MV-3003A MV-3004A MV-3005A



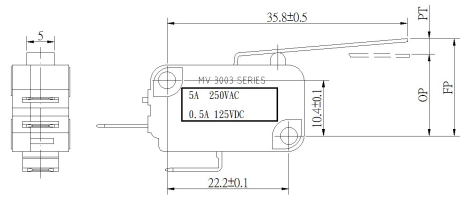
MV-3000-NO	A
OF MAX	335g
RF MIN	235g
PT MAX	1.2mm
OT MIN	0.9mm
DT MAX	0.4mm
FP	15.5mm
OP	14.3±0.1



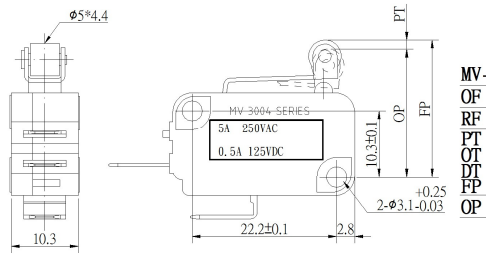
MV-3001-NO	A
OF MAX	288g
RF MIN	110g
PT MAX	2.3mm
OT MIN	1.8mm
DT MAX	0.7mm
FP	20.9mm
OP	18.6±0.1



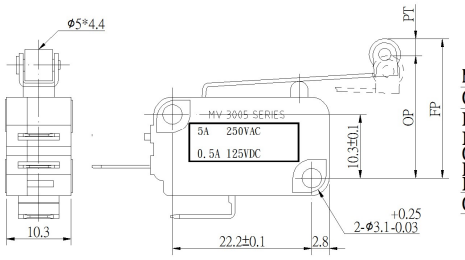
MV-3002-NO	A
OF MAX	262g
RF MIN	191g
PT MAX	1.4mm
OT MIN	0.7mm
DT MAX	0.4mm
FP	16.3mm
OP	14.9±0.1



MV-3003-NO	A
OF MAX	175g
RF MIN	102g
PT MAX	2.6mm
OT MIN	1.7mm
DT MAX	0.8mm
FP	17.9mm
OP	15.3±0.1



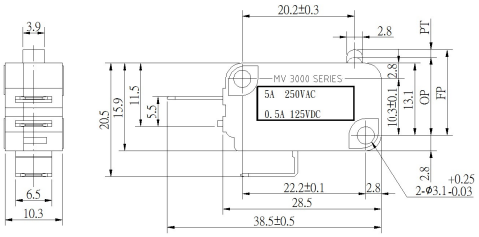
MV-3004-NO	A
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FP	21.2mm
OP	20±0.1



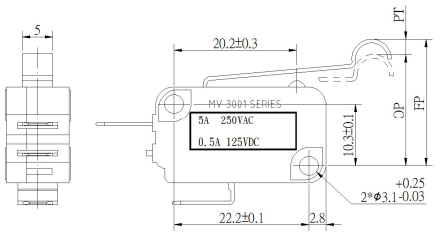
MV-3005-NO	A
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RF MIN	102g
PT MAX	2.5mm
OT MIN	2.3mm
DT MAX	0.7mm
FP	22.4mm
OP	19.9±0.1



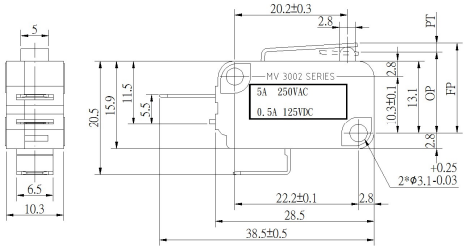
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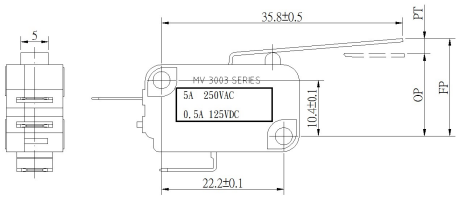
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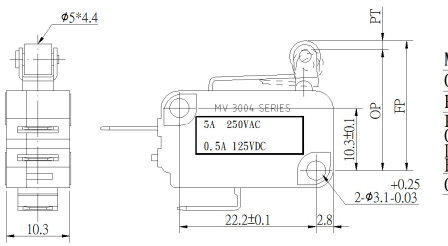
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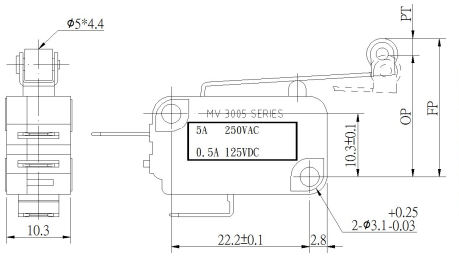
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