Rocker

OTAX offers a wide range of long-selling, high-rated, and highly reliable operational switches, including toggle, waterproof toggle, rocker, push-button, and rotary switches.

A Series

250V/125VAC 25A 20A 15A

Solder Lug Screw Quick Connect

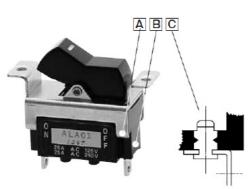
SP 2P 3P 4P

Features of the Series

Outline of the Series

- 1. All standard models use UL94 V-0 flame-retardant resin for the case.
- 2. Contact bounce during switching is minimized, ensuring stable operation across a wide current range—from low to high currents.
- 3. All models feature insert molding to eliminate gaps between metal and resin parts, preventing flux from entering the case.
- 4. A safety-oriented design ensures that even if the case is deformed by heat, insulation failure will not
- 5. The switches are designed to meet various standards, offering excellent durability, environmental resistance, impact resistance, and vibration resistance.
- A The frame adopts a short clinch structure, completely isolating it from conductive components and providing extremely high insulation performance.
- B UL94 V-0 certified flame-retardant resin is used, offering outstanding resistance to arcing, heat, cold, moisture, and impact.
- © A fixed contact embedding method is used to completely prevent flux from entering the case.

With this structure, electrical performance is not compromised by heatinduced terminal loosening or case deformation.



Common Specifications

Ratings \square =Type of Terminals Symbol (1, 2, 4, 5)

Symbol Voltage	0 🗆	1 🗆	2 🗆	Load	Notes				
AC125/250V	25A	20A	15A	Docietive Load	Load only with Resistive, Power Factor=1				
DC30V	25A	20A	15A	Resistive Load	Load only with hesistive, rower ractor-1				

^{*} A resistive load refers to a load consisting solely of resistance. In actual circuits, however, there may be inductive, capacitive, or motor loads, each of which can generate inrush current. Therefore, when selecting a switch, be sure to choose a rating with sufficient margin above the steady-state current.

For more details, please refer to "Useful Advices and Precautions on Usage of Operational Switches."

OTAX Co., Ltd. 1215, Nippacho, Kohoku-ward, Yokohama, Kanagawa, 223-8558 Japan https://www.otax-en.com/



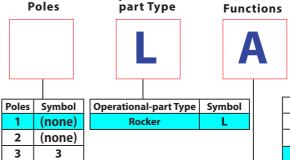
Packaging Quantity					
SP	100 pcs				
DP • 3P • 4P	50 pcs				
DP • 3P • 4P	50 pcs				

Contact Resistance	10 mΩ Max. (DC2V 1A) (Initial value)
Withstanding Voltage	AC1,500V 1 Minute
Insulating Resistance	1,000MΩ Min. (DC500V)
Electrical Life	20,000 times
Operating Temperature Range	-20°C∼ +70°C
Storage Temperature Range	-20°C∼ +70°C
Hand-soldering Conditions	350 ± 3℃ Within 3 sec.

^{*} For products other than those listed above or for custom items, please contact us.

Product Designations

Series Name



Operational-

	25A	_		rent acity		Ter	pe mir	of nals
F	1			2		1	1	
bol		Curre	nt Cap	acity	Sym	bol		
		25A 12			(,		
		20A 12	25/25	OV AC	1			

15A 125/250V AC

Swi	itch Functi	Symbol			
The Opposite Side	Center	Key Thread Side	SP 3P	DP 4P	
ON	-	OFF	Α	K	
ON	-	ON	D	N	
ON	OFF	ON	E	P	
ON	-	<on></on>	F	R	
<on></on>	OFF	<on></on>	G	S	

<>	= M	ome	ntary
	- 141	OHILE	iitai y

Type of	Sy	mbol
Terminals		
Solder Lug		1
Screw Terminal		2
Quick Connect Terminal #187		4
Quick Connect Terminal #250		5

Screw Terminal and Quick Connect Terminal # 187 are with 15A, Quick Connect Terminal # 250 with 20,25A only.

SP 2P 3P 4P

Rocker

250V/125VAC

25A

20A

15A

Solder Lug

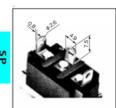
Screw

Quick Connect

Examples of Terminal Figures (SP/DP, ON-ON)

4

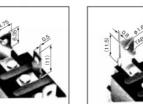
Solder Lug



Screw

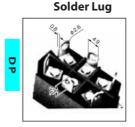


CO

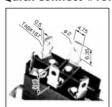


Quick Connect #187 Quick Connect #250

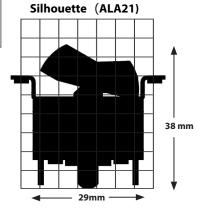
Quick Connect #187











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Rocker

Series

250V/125VAC 25A 20A 15A

Solder Lug Screw **Quick Connect**

> SP 2P 3P 4P

Resistive Resistive Resistive Functions <> = Momentary Load Load Load Product Product Product Circuit Name AC125/250V AC125/250V AC125/250V Name Name DC30V DC30V DC30V ALA01 ALA11 20A ALA21 ON 1-3 OFF 25A 15A SPST ALD01 ALD11 ALD21 ON 2-3 20A SPDT ON 2-1 25A 15A ALE01 ALE11 20A ALE21 15A SPDT ON 2-3 ON 2-1 25A OFF ALF01 ALF11 ALF21 SPDT 25A 20A 15A ON 2-3 <ON> 2-1 ALG01 25A ALG11 ALG21 20A 15A SPDT <ON>2-3 OFF <ON>2-1

Switch Names, Functions, Terminal Diagram

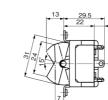
Terminal Diagram

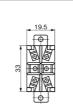


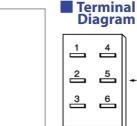
Loa	Resistive Load	Du a desat	Resistive Resistive Load Load		Functions <> = Momentary				
Product Name	AC125/250V DC30V	Product Name	AC125/250V DC30V	Product Name	AC125/250V DC30V	Circuit			-
ALK01	25A	ALK11	20A	ALK21	15A	DPDT	ON 1-3 4-6	_	OFF
ALN01	25A	ALN11	20A	ALN21	15A	DPDT	ON 2-3 5-6	_	ON 2-1 5-4
ALP01	25A	ALP11	20A	ALP21	15A	DPDT	ON 2-3 5-6	OFF	ON 2-1 5-4
ALR01	25A	ALR11	20A	ALR21	15A	DPDT	ON 2-3 5-6	_	⟨ON⟩ 2-1 5-4
ALS01	25A	ALS11	20A	ALS21	15A	DPDT	⟨ON⟩ 2-3 5-6	OFF	⟨ON⟩ 2-1 5-4









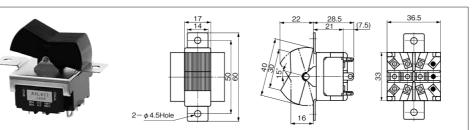


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Rocker

3 P

Due du et	Resistive Load	Duaduat	Resistive Load	Duaduat	Resistive Load		Function	ns <> = M	<> = Momentary	
Product Name	AC125/250V DC30V	Product Name	AC125/250V DC30V	Product Name	AC125/250V DC30V	Circuit	-			
A3LA01	25A	A3LA11	20A	A3LA21	15A	3 Poles 単投	ON 7-9	_	0	FF
A3LD01	25A	A3LD11	20A	A3LD21	15A	3 Poles 双投	ON 2-3 5-6 8-9	_	ON	2-1 5-4 8-7
A3LE01	25A	A3LE11	20A	A3LE21	15A	3 Poles 双投	ON 2-3 5-6 8-9	OFF	ON	2-1 5-4 8-7
A3LF01	25A	A3LF11	20A	A3LF21	15A	3 Poles 双投	ON 8-9 5-6	_	<on></on>	2-1 5-4 8-7
A3LG01	25A	A3LG11	20A	A3LG21	15A	3 Poles 双投	ON> 2-3 5-6 8-9	OFF	⟨ON⟩	2-1 5-4 8-7



Terminal Diagram



Solder Lug Screw **Quick Connect**

SP 2P

3P 4P

250V/125VAC

25A

20A

15A

D d et	Resistive Load	Load		Duradicat	Resistive Load		Fur	nction	ıs <> = Me	oment	tary
Product Name	AC125/250V DC30V	Product Name	AC125/250V DC30V	Product Name	AC125/250V DC30V	Circuit	_	•			-
A4LK01	25A	A4LK11	20A	A4LK21	15A	4PST		1-3 4-6 7-9 10-12	_	0	FF
A4LN01	25A	A4LN11	20A	A4LN21	15A	4 Poles 双投		2-3 5-6 8-9 11-12	_	ON	2-1 5-4 8-7 11-10
A4LP01	25A	A4LP11	20A	A4LP21	15A	4 Poles 双投		2-3 5-6 8-9 11-12	OFF	ON	2-1 5-4 8-7 11-10
A4LR01	25A	A4LR11	20A	A4LR21	15A	4 Poles 双投		2-3 5-6 8-9 11-12	_	<on></on>	2-1 5-4 8-7 11-10
A4LS01	25A	A4LS11	20A	A4LS21	15A	4 Poles 双投	<on></on>	2-3 5-6 8-9 11-12	OFF	<on></on>	2-1 5-4 8-7 11-10

Terminal Diagram

1 4 7 19



Rocker

Dimensions of Terminals, Mounting Holes, and Mounting Parts

■ Dimensions of Terminals

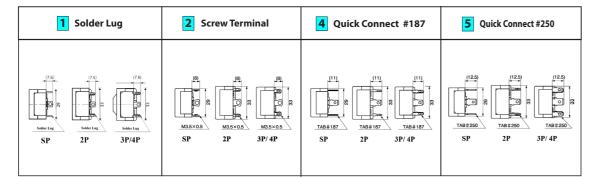


Series

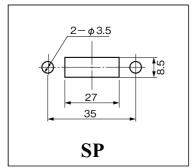
250V/125VAC 25A 20A 15A

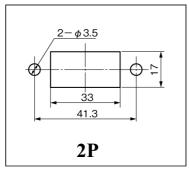
Solder Lug Screw **Quick Connect**

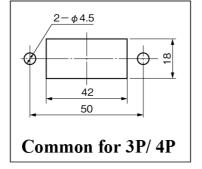
SP 2P 3P 4P



■ Mounting Hole Dimensions

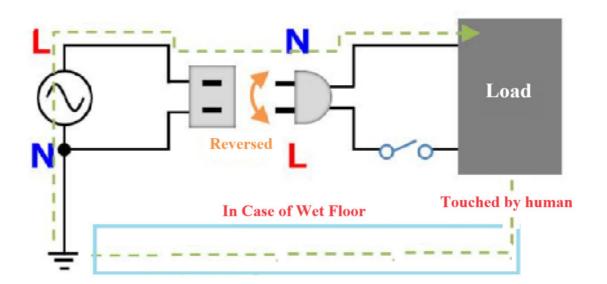






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Switch Tips



Did you know that even standard 100V AC power plugs have a proper orientation? In a 100V AC system, one side of the power line is grounded (connected to earth). At the same time, many electronic and electrical devices use their metal chassis as a ground

In such a setup, if the plug is inserted in reverse—as shown in the diagram—and a person touches the chassis while standing on a wet floor, a circuit may be formed, allowing current to flow through the person. This poses a serious risk of electric shock.

To prevent such accidents, we recommend using double-pole switching, where both the live (L) and neutral (N) lines are disconnected simultaneously using a two-pole switch. Standard power switches typically control only the live (L) line, but double-pole switches interrupt both lines at once, completely isolating the device from the power source. This provides a higher level of safety, particularly in environments where the floor may be wet or where high-voltage equipment is in use.

Non-ground Side Live Side Load **Double-pole** Single-throw (DPST) Switch **Neutral Side** Commercial **Ground Side Power Supply**

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Rocker

Series

250V/125VAC 25A 20A

15A

Solder Lug Screw

Quick Connect

SP 2P 3P 4P

