



# Standard Size Toggle Switches



RoHS Compliant

## Introduction

The ET series is our standard size high capacity toggle switch. The ET series is available in various current rating, switching functions, and terminals. The housing is made of self-extinguishing phenol resin which has excellent heat resistance, arc resistance, and tracking resistance. The contacts are designed to eliminate chattering and bouncing to prevent insulation deterioration.

## Part Numbering

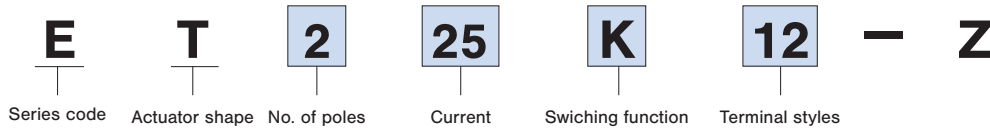


Fig.	No. of poles
1	1pole
2	2poles
3	3poles
4	4poles
6	6poles

Fig.	AC125V		AC250V	
	05	5A	3A	
10	10A	(7A)		
15	15A	10A		

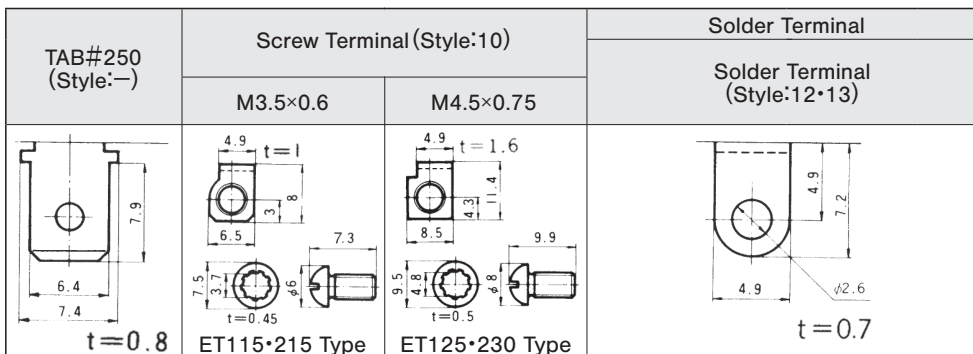
Fig.	AC125V		AC250V	
	20	20A	12A	
25	25A	15A		
30	30A	(25A)		

1pole 3poles	2poles 4poles 6poles	Key way		
A	K	ON	—	OFF
C	M	OFF	—	(ON)
D	N	ON	—	ON
E	P	ON	OFF	ON
F	—	ON	—	(ON)
G	S	(ON)	OFF	(ON)
H	—	ON	OFF	(ON)
—	PA	ON	ON	OFF

Fig.	Terminal style
None	TAB#250
10	Screw Terminal
12	Solder Terminal
13	Plate Connect Solder Terminal


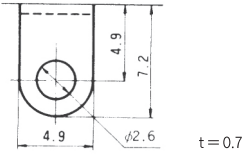

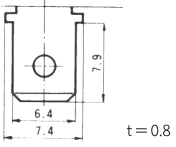

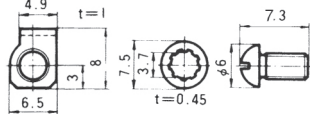

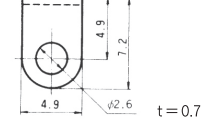

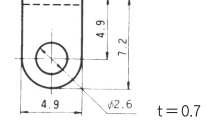

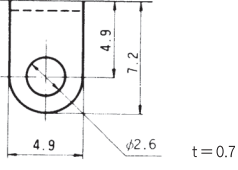

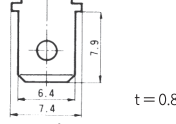

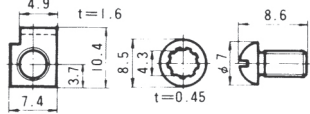

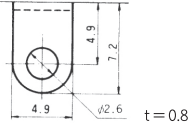
Note: Some model names may not be registered. Please refer to the product list for this series.

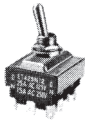
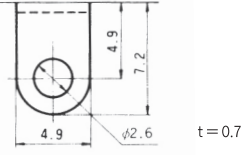


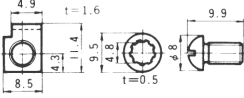

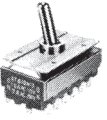
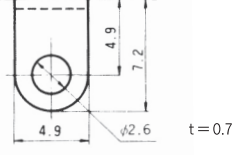
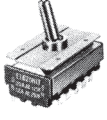
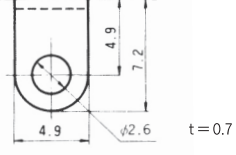
## Terminal shape and dimensions



(ON)and(OFF) : Momentary.

## ET Series Selection Table

Part No.	Appearance	No. of poles	Rating	Switching function	Terminal style
<b>ET105</b>		1	AC125 V 5 A AC250 V 3 A	ON - OFF ON - ON ON - OFF - ON	Solder Terminal 
<b>ET110</b>		1	AC125 V 10 A AC250 V 7 A	ON - OFF ON - ON ON - OFF - ON ON - (ON)	TAB # 250 
<b>ET210</b>		2	AC125 V 10 A	ON - ON - OFF	Screw Terminal (M3.5×0.6) 
<b>ET115</b>		1	AC125 V 15 A AC250 V 10 A	ON - OFF OFF - (ON) ON - ON ON - OFF - ON (ON) - OFF - (ON) ON - OFF - (ON)	Solder Terminal 
<b>ET215</b>		2			Solder Terminal 
<b>ET315</b>		3			Solder Terminal 
<b>ET120</b>		1	AC125 V 20 A AC250 V 12 A	ON - OFF	TAB # 250 
<b>ET125</b>		1	AC125 V 25 A AC250 V 15 A	ON - OFF ON - ON ON - OFF - ON	Screw Terminal (M4.5×0.6) 
<b>ET225</b>		2			Solder Terminal 

Part No.	Appearance	No. of poles	Rating	Switching function	Terminal style
ET425		4	AC125 V 25 A AC250 V 15 A	ON - OFF ON - ON	Solder Terminal 
ET220		2	AC125 V 20 A AC250 V 12 A	ON - OFF ON - ON	Solder Terminal
ET230		2	AC125 V 30 A AC250 V 25 A	ON - ON ON - OFF - ON	Screw Terminal (M4.5×0.75) 
ET310		3	AC125 V 10 A AC250 V 7 A	ON - OFF ON - ON ON - OFF - ON	Solder Terminal
ET610N Plate type		6	AC125 V 10 A AC250 V 7 A	ON - ON	Solder Terminal 
ET620N Plate type		6	AC125V 20A AC250V 12A	ON - ON	Solder Terminal 

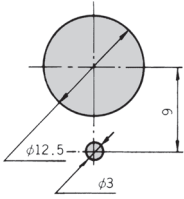
● Ratings are based on resistance load.

**Panel Cut-Out Dimensions**

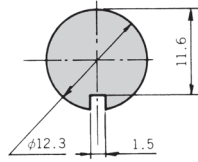
Panel thickness : 5.5mm max.

● Refer to for a list of accessories.

Note : Panel thickness should be 5.5 mm max. unless otherwise specified.



With Locking Ring

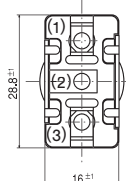
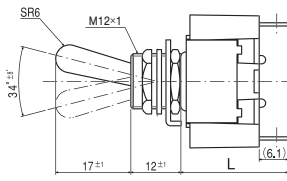
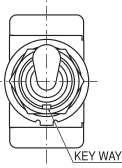
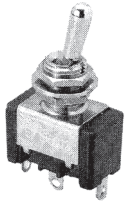


Without Locking Ring

**ET105□12 (1 pole)**

Terminal pin No.2 is not available in switches with Switching Function "A".

**L dimensions**



Terminal numbers are shown on the bottom of the switch.

Part No.	Terminal style	Solder Terminal
	ET105A12-Z	
ET105D12-Z		24.6 <sup>±1</sup>
ET105E12-Z		24.6 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
	☆ ET105A12-Z	ON	—	—
Connecting terminals	1-3	—	—	—
☆ ET105D12-Z	ON	—	—	ON
☆ ET105E12-Z	ON	OFF	—	ON
Connecting terminals	2-3	—	—	2-1

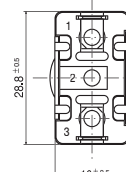
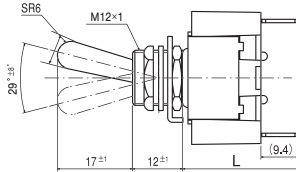
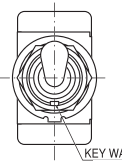
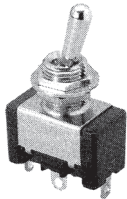
**Specifications**

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ET105A12	AC125 V 5 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500V)	20,000回 cycles
ET105D12	AC250 V 3 A				
ET105E12					

**ET110 (1 pole)**

Terminal pin No.2 is not available in switches with Switching Function "A".

**L dimensions**



Terminal numbers are shown on the bottom of the switch.

Part No.	Terminal style	TAB# 250	Screw Terminal	Solder Terminal
	ET110A■•D■-Z		—	—
ET110E■-Z		—	—	24.6 <sup>±1</sup>
ET110F■-Z		27.6 <sup>±1</sup>	—	24.6 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
	ET110A■-Z	ON	—	—
Connecting terminals	1-3	—	—	—
ET110D■-Z	ON	—	—	ON
ET110E■-Z	ON	OFF	—	ON
ET110F■-Z	ON	—	—	(ON)
Connecting terminals	2-3	—	—	2-1

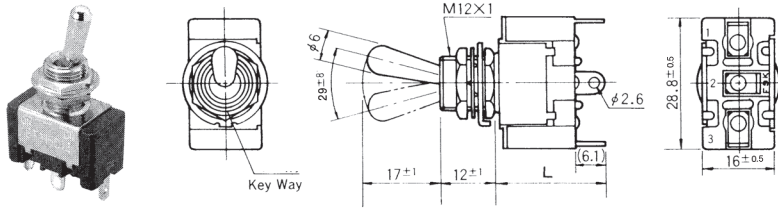
■ : Refer to "Table of Part Numbers" for a full list of part numbers.

**Specifications**

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ET110A■	AC125 V 10 A	20 mΩ Max. (DC2V 100 mA)	AC1500V minute	100 MΩ Min. (DC500 V)	30,000 cycles
ET110D■	AC250 V 7 A				
ET110E■					
ET110F■	AC125 V 10 A AC250 V 7 A				20,000 cycles

**ET115 (1 pole)**

Terminal pin No.2 is not available in switches with Switching Function "A", "B", or "C".



Terminal numbers are shown on the bottom of the switch.

**Specifications**

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET115A</b>	AC125 V 15 A	20 mΩ Max. (DC2V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	30,000 cycles
<b>ET115D</b>	AC250 V 10 A				
<b>ET115E</b>	AC250 V 10 A				
<b>ET115C</b>	AC125 V 15 A	20,000 cycles			
<b>ET115G</b>	AC250 V 10 A				
<b>ET115H</b>	AC250 V 10 A				

**L dimensions**

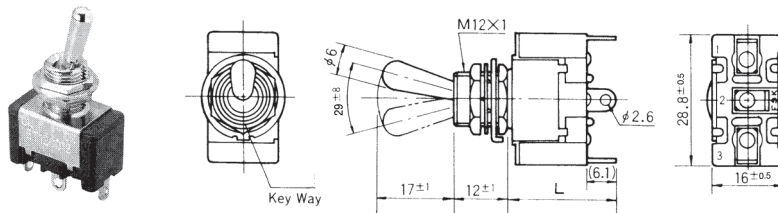
Part No.	Terminal style		
	TAB#250	ScrewTerminal	Solder Terminal
<b>ET115A</b> ■• <b>D</b> ■- <b>Z</b>	27.6 <sup>±1</sup>	25.4 <sup>±1</sup>	24.6 <sup>±1</sup>
<b>ET115E</b> ■- <b>Z</b>	27.6 <sup>±1</sup>	25.4 <sup>±1</sup>	24.6 <sup>±1</sup>
<b>ET115C</b> ■• <b>F</b> ~ <b>H</b> ■- <b>Z</b>	—	25.4 <sup>±1</sup>	24.6 <sup>±1</sup>

Part No.	Switching function		
	Key way	Key way	Key way
<b>ET115A</b> ■- <b>Z</b>	ON	—	OFF
Connecting terminals	1-3	—	—
<b>ET115C</b> ■- <b>Z</b>	OFF	—	(ON)
Connecting terminals	—	—	1-3
<b>ET115D</b> ■- <b>Z</b>	ON	—	ON
<b>ET115E</b> ■- <b>Z</b>	ON	OFF	ON
<b>ET115G</b> ■- <b>Z</b>	(ON)	OFF	(ON)
<b>ET115H</b> ■- <b>Z</b>	ON	OFF	(ON)
Connecting terminals	2-3	—	2-1

■ : Refer to "Table of Part Numbers" for a full list of part numbers.

**ET120 (1 pole)**

Terminal pin No.2 is not available in switches with Switching Function "A".



Terminal numbers are shown on the bottom of the switch.

**Specifications**

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET120A</b> ■	AC125 V 20 A AC250 V 12 A	20 mΩ Max. (DC2 V 100 mA)	AC1500V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**L dimensions**

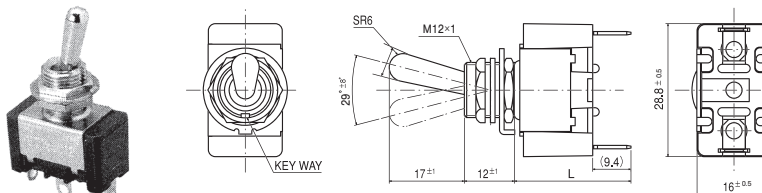
Part No.	Terminal style		
	TAB#250	ScrewTerminal	Solder Terminal
<b>ET120A</b> ■- <b>Z</b>	—	—	24.6 <sup>±1</sup>

Part No.	Switching function		
	Key way	Key way	Key way
<b>ET120A</b> ■- <b>Z</b>	ON	—	OFF
Connecting terminals	1-3	—	—

■ : Refer to "Table of Part Numbers" for a full list of part numbers.

**ET125 (1 pole)**

Terminal pin No.2 is not available in switches with Switching Function "A".



Terminal numbers are shown on the bottom of the switch.

**Specifications**

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET125D</b> ■	AC125 V 25 A AC250 V 15 A	20 mΩ Max. (DC2V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**L dimensions**

Part No.	Terminal style		
	TAB#250	ScrewTerminal	Solder Terminal
<b>ET125D</b> ■- <b>Z</b>	27.6 <sup>±1</sup>	28.8 <sup>±1</sup>	24.6 <sup>±1</sup>

Part No.	Switching function		
	Key way	Key way	Key way
<b>ET125D</b> ■- <b>Z</b>	ON	—	ON
Connecting terminals	2-3	—	2-1

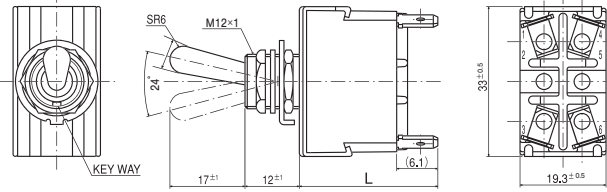
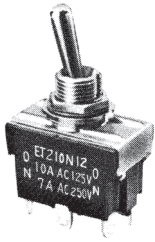
■ : Refer to "Table of Part Numbers" for a full list of part numbers.

(ON) : Momentary.

■ shows the terminal style "(blank)", "10", or "12".

**ET210 (2 poles)**

Terminal pins No.2 and No.5 are not available in switches with Switching Function "K".



Terminal numbers are shown on the bottom of the switch.

**L dimensions**

Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET210K■•N■-Z</b>		30.6 <sup>±1</sup>	28.4 <sup>±1</sup>	27.6 <sup>±1</sup>
<b>ET210P■-Z</b>		30.6 <sup>±1</sup>	28.4 <sup>±1</sup>	27.6 <sup>±1</sup>
<b>ET210PA12-Z</b>		-	-	27.6 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
<b>ET210K■-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6	—	—	—
<b>ET210N■-Z</b>	ON	—	—	ON
<b>ET210P■-Z</b>	ON	OFF	—	ON
Connecting terminals	2-3 5-6	—	—	2-1 5-4
<b>★ ET210PA12-Z</b>	ON	ON	—	OFF
Connecting terminals	2-3 5-6	5-6	—	—

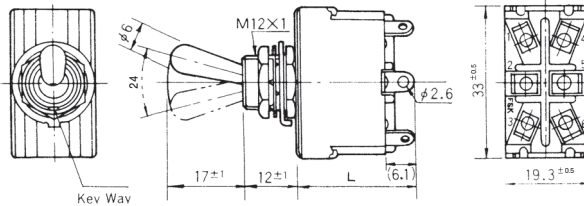
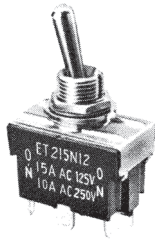
■ : Refer to "Table of Part Numbers" for a full list of part numbers.of part numbers.

**Specifications**

Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET210K■</b>	AC125 V 10 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	30,000 cycles
<b>ET210N■</b>	AC250 V 7 A				
<b>ET210P■</b>					
<b>ET210PA12</b>	AC125 V 10 A				20,000 cycles

**ET215 (2 poles)**

Terminal pins No.2 and No.5 are not available in switches with Switching Function "K", "L", or "M".



Terminal numbers are shown on the bottom of the switch.

**L dimensions**

Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET215K■•N■-Z</b>		30.6 <sup>±1</sup>	28.4 <sup>±1</sup>	27.6 <sup>±1</sup>
<b>ET215P■-Z</b>		30.6 <sup>±1</sup>	28.4 <sup>±1</sup>	27.6 <sup>±1</sup>
<b>ET215M-S■-Z</b>		-	28.4 <sup>±1</sup>	27.6 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
<b>ET215K■-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6	—	—	—
<b>ET215M■-Z</b>	OFF	—	—	(ON)
Connecting terminals	—	—	—	1-3 4-6
<b>ET215N■-Z</b>	ON	—	—	ON
<b>ET215P■-Z</b>	ON	OFF	—	ON
<b>ET215S■-Z</b>	(ON)	OFF	—	(ON)
Connecting terminals	2-3 5-6	—	—	2-1 5-4

■ : Refer to "Table of Part Numbers" for a full list of part numbers.of part numbers.

**Specifications**

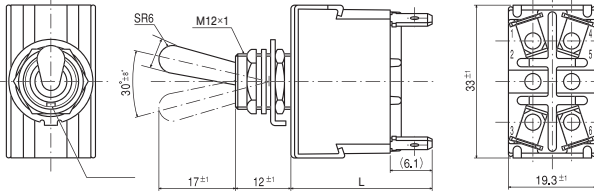
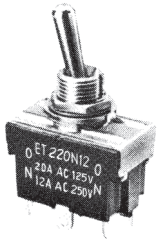
Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET215K■</b>	AC125 V 15 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	30,000 cycles
<b>ET215N■</b>	AC250 V 10 A				
<b>ET215P■</b>					
<b>ET215M■</b>	AC125 V 15 A				20,000 cycles
<b>ET215S■</b>	AC250 V 10 A				

(ON)and(OFF) : Momentary.

■ shows the terminal style "(blank)", "10", or "12".

**ET220 (2 poles)**

Terminal pins No.2 and No.5 are not available in switches with Switching Function "K", "L", or "M".



Terminal numbers are shown on the bottom of the switch.

**L dimensions**

Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET220K12-N12-Z</b>		-	-	27.6 <sup>±1</sup>

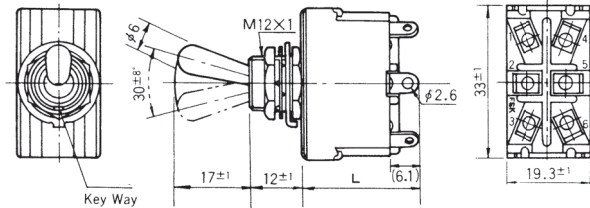
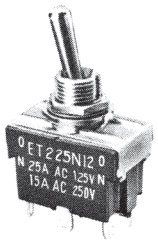
Part No.	Switching function	Key way	Key way	Key way
<b>ET220K12-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6	—	—	—
<b>ET220N12-Z</b>	ON	—	—	ON
Connecting terminals	2-3 5-6	—	—	2-1 5-4

**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET220K12</b> <b>ET220N12</b>	AC125 V 20 A AC250 V 12 A (DC2 V 100 mA)	20 mΩ Max. AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**ET225 (2 poles)**

Terminal pins No.2 and No.5 are not available in switches with Switching Function "K".



Terminal numbers are shown on the bottom of the switch.

**L dimensions**

Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET225K■-N■-Z</b> <b>ET225P■-Z</b>		30.6 <sup>±1</sup>	31.8 <sup>±1</sup>	27.6 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
<b>ET225K■-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6	—	—	—
<b>ET225N■-Z</b>	ON	—	—	ON
<b>ET225P■-Z</b>	ON	OFF	—	ON
Connecting terminals	2-3 5-6	—	—	2-1 5-4

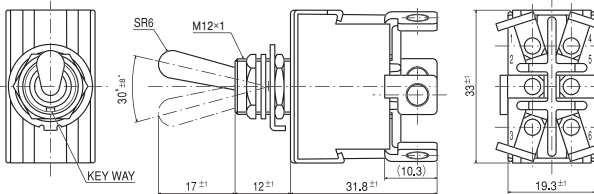
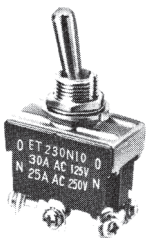
■ : Refer to "Table of Part Numbers" for a full list of part numbers.

**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET225K■</b> <b>ET225N■</b> <b>ET225P■</b>	AC125 V 25 A AC250 V 15 A (DC2 V 100 mA)	20 mΩ Max. AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**ET230 (2 poles)**

Terminal pins No.2 and No.5 are not available in switches with Switching Function "K".



Terminal numbers are shown on the bottom of the switch.

Part No.	Switching function	Key way	Key way	Key way
★ <b>ET230N10-Z</b>	ON	—	—	ON
★ <b>ET230P10-Z</b>	ON	OFF	—	ON
Connecting terminals	2-3 5-6	—	—	2-1 5-4

**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET230N10</b> <b>ET230P10</b>	AC250 V 25 A AC125 V 30 A (DC2 V 100 mA)	20 mΩ Max. AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**ET310 (3 poles)**

Terminal pins No.2, No.5, and No.8 are not available in switches with Switching Function "A".

**L dimensions**

Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET310A12-Z</b>		-	-	29.1 <sup>±1</sup>
<b>ET310D12-Z</b>		-	-	29.1 <sup>±1</sup>
<b>ET310E12-Z</b>		-	-	29.1 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
<b>ET310A12-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6 7-9	—	—	—
<b>ET310D12-Z</b>	ON	—	—	ON
<b>ET310E12-Z</b>	ON	OFF	—	ON
Connecting terminals	2-3 5-6 8-9	—	—	2-1 5-4 8-7

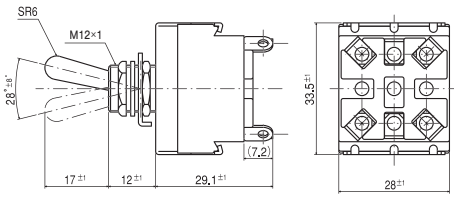
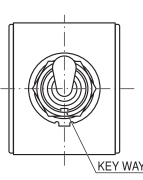
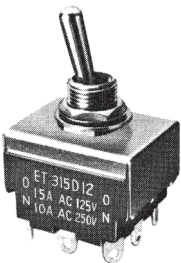
**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life	
<b>ET310A12</b> <b>ET310D12</b> <b>ET310E12</b>	AC125 V 10 A AC250 V 7 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**ET315□12 (3 poles)**

Terminal pins No.2, No.5, and No.8 are not available in switches with Switching Function "A".

Part No.	Switching function	Key way	Key way	Key way
★ <b>ET315D12-Z</b>	ON	—	—	ON
★ <b>ET315E12-Z</b>	ON	OFF	—	ON
Connecting terminals	2-3 5-6 8-9	—	—	2-1 5-4 8-7



Terminal numbers are shown on the bottom of the switch.

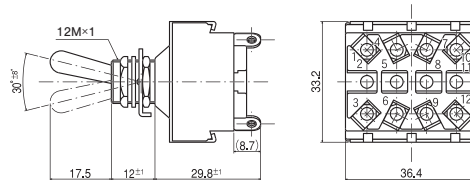
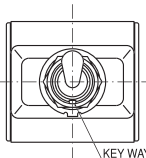
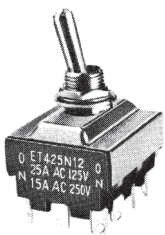
**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life	
<b>ET315D12</b> <b>ET315E12</b>	AC125 V 15 A AC250 V 10 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

**ET425□12 (4 poles)**

Terminal pins No.2, No.5, No.8, and No.11 are not available in switches with Switching Function "K".

Part No.	Switching function	Key way	Key way	Key way
★ <b>ET425K12-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6 7-9 10-12	—	—	—
★ <b>ET425N12-Z</b>	ON	—	—	ON
Connecting terminals	2-3 5-6 8-9 11-12	—	—	2-1 5-4 8-7 11-10



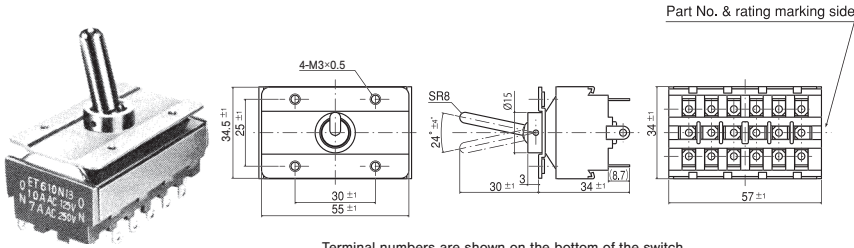
Terminal numbers are shown on the bottom of the switch.

**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life	
<b>ET425K12</b> <b>ET425N12</b>	AC125 V 25 A AC250 V 15 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	20,000 cycles

★ : Made to order products.

**ET610N13 (6 poles)**

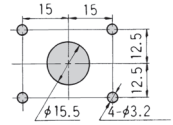


Terminal numbers are shown on the bottom of the switch.

Switching function	Viewed from part No. and rating marking side		
Part No.	★ET610N13-Z	—	—
Connecting terminals	2-3 5-6 8-9 11-12 14-15 17-18	—	2-1 5-4 8-7 11-10 14-13 17-16

**Panel Cut-Out Dimensions**

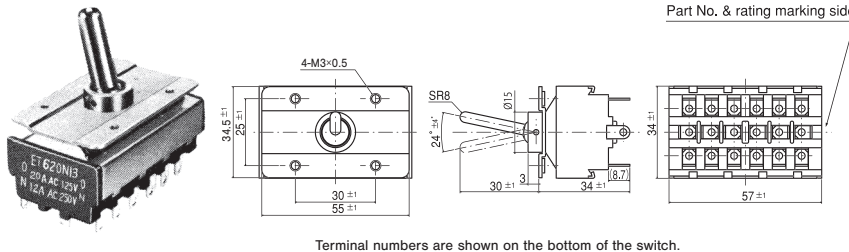
(Plate mounting type)



**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ET610N13 AC125 V 10 A AC250 V 7 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	5,000 cycles

**ET620N13 (6 poles)**

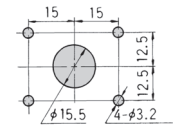


Terminal numbers are shown on the bottom of the switch.

Switching function	Viewed from part No. and rating marking side		
Part No.	★ET620N13-Z	—	—
Connecting terminals	2-3 5-6 8-9 11-12 14-15 17-18	—	2-1 5-4 8-7 11-10 14-13 17-16

**Panel Cut-Out Dimensions**

(Plate mounting type)



**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
ET620N13 AC125 V 20 A AC250 V 12 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	5,000 cycles

**Table of Part Numbers**

Terminal shape	Part No.	※1.	Part No.	※1.	Part No.	※1.	Part No.	※1.
TAB terminals	★ ET110F-Z		★ ET115D-Z		☆ ET215P-Z	39.7	ET225P-Z	
	ET115A-Z	29.4	★ ET215N-Z	40.0	☆ ET225K-Z	39.4	—	—
Screw terminals	☆ ET115A10-Z		★ ET215K10-Z		★ ET230N10-Z	54.4	—	—
	★ ET125A10-Z		☆ ET215N10-Z		★ ET230P10-Z		—	—
Solder terminals	☆ ET105A12-Z		★ ET115G12-Z		★ ET215M12-Z		☆ ET310D12-Z	54.6
	☆ ET105D12-Z	25.8	★ ET115H12-Z	25.0	☆ ET215N12-Z	38.1	☆ ET310E12-Z	
	☆ ET105E12-Z		☆ ET120A12-Z		★ ET215P12-Z	37.8	☆ ET310D12-Z	54.6
	☆ ET110A12-Z	25.8	☆ ET125A12-Z	25.9	ET215S12-Z	38.4	★ ET315D12-Z	54.7
	☆ ET110D12-Z		★ ET125D12-Z	26.0	★ ET220K12-Z		★ ET315E12-Z	
	★ ET110E12-Z		☆ ET210K12-Z		★ ET220N12-Z		★ ET425K12-Z	
	ET115A12-Z	25.9	☆ ET210N12-Z	38.0	☆ ET225K12-Z	38.1	★ ET425N12-Z	
	★ ET115C12-Z		☆ ET210P12-Z	37.9	ET225N12-Z	38.6	☆ ET610N13-Z	105.0
	ET115D12-Z	25.9	★ ET210PA12-Z		ET225P12-Z		★ ET620N13-Z	
	★ ET115E12-Z	25.9	☆ ET215K12-Z	37.9	★ ET310A12-Z	54.0	—	—

☆ : Semi-standard products. ★ : Made to order products.

■ **Standard Accessories**

《Supplied with switch》

Part Name	Hex Nut	Hex Nut	Lockwasher	Locking Ring
Part No.	<b>140008010235</b>	<b>140008010221</b>	<b>140008030055</b>	<b>140008020065</b>
Dimensions				
Finish	Nickel plated	Zinc plated	Zinc plated	Zinc plated

■ **Optional Accessories**

《Supplied separately》

Part Name	Waterproof boot	Boot	Bushing
Part No.	<b>Red 14000061033</b> <b>Gray 140000610334</b> <b>Black 140000610333</b>	<b>140000610080</b>	<b>140008010244</b>
Dimensions			

■ **Handling Precautions**

**1. Soldering Specifications**

- (1) Manual Soldering  
Device : Soldering iron  
420°C, Max.; 3 seconds, Max.

(2) Waterproof boot

- ① The boot is fixed to the switch with the built-in screw.
- ② The boot cannot be used for plate-mounting switches.

**2. Flux Cleaning**

- (1) Solvent : Fluorine or Alcohol type.
- (2) The ET series are not washable. To wash the PC board, clean the soldering surface of the PC board with a brush so that the switch is not exposed to the cleaning solution.

■ **Packaging Specification**

