



**THE DATASHEET OF  
ET225N12-Z**



# ET

## 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

**E**    **T**    **2**    **25**    **K**    **12**    **-**    **Z**

Series code    Actuator shape    No. of poles    Current    Switching function    Terminal styles

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

Fig.	AC125V		AC250V	
	AC125V	AC250V	AC125V	AC250V
05	5A	3A	20	20A
10	10A	(7A)	25	25A
15	15A	10A	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


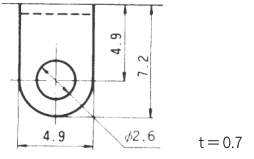

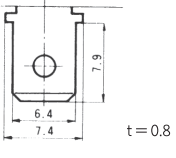

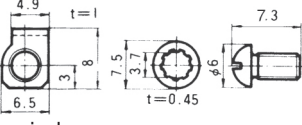

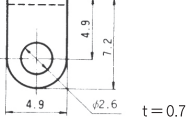

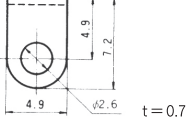

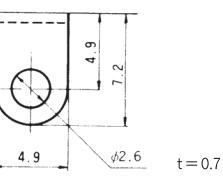

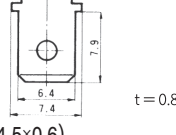

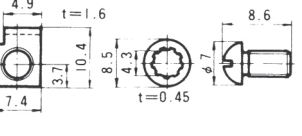

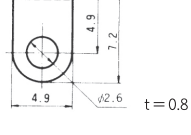
Fig.	Terminal style
None	TAB#250
10	Screw Terminal
12	Solder Terminal
13	Plate Connect Solder Terminal

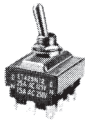
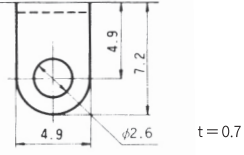


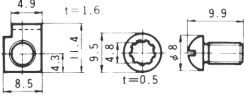

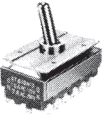
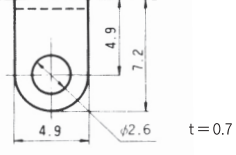
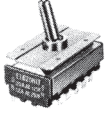
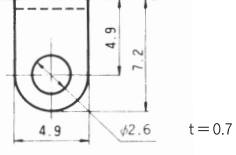
### Terminal shape and dimensions

TAB#250 (Style:-)	Screw Terminal (Style:10)		Solder Terminal
	M3.5×0.6	M4.5×0.75	Solder Terminal (Style:12·13)
t=0.8	ET115·215 Type	ET125·230 Type	t=0.7

(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 

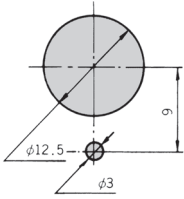
● Ratings are based on resistance load.

**Panel Cut-Out Dimensions**

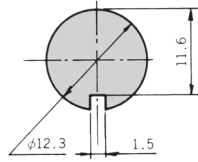
Panel thickness : 5.5mm max.

● Refer to for a list of accessories.

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



With Locking Ring

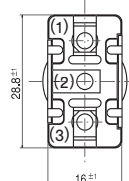
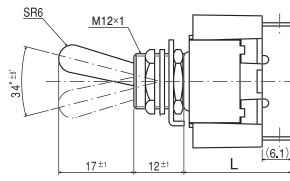
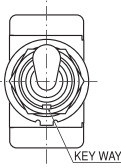
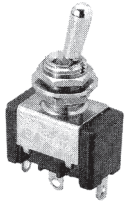


Without Locking Ring

**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
	<b>ET105A12-Z</b>	
<b>ET105D12-Z</b>		24.6 <sup>±1</sup>
<b>ET105E12-Z</b>		24.6 <sup>±1</sup>

**Specifications**

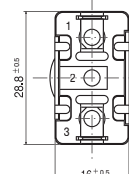
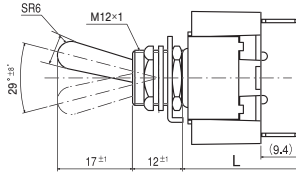
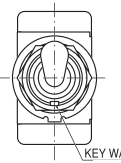
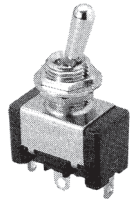
Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET105A12</b>	AC125 V 5 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500V)	20,000回 cycles
<b>ET105D12</b>	AC250 V 3 A				
<b>ET105E12</b>					

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

**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	ScrewTerminal	Solder Terminal
	<b>ET110A■•D■-Z</b>		—	—
<b>ET110E■-Z</b>		—	—	24.6 <sup>±1</sup>
<b>ET110F■-Z</b>		27.6 <sup>±1</sup>	—	24.6 <sup>±1</sup>

**Specifications**

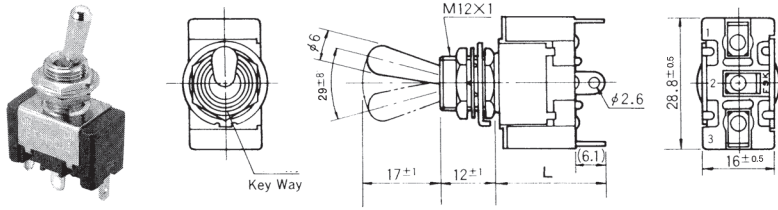
Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET110A■</b>	AC125 V 10 A	20 mΩ Max. (DC2V 100 mA)	AC1500V minute	100 MΩ Min. (DC500 V)	30,000 cycles
<b>ET110D■</b>	AC250 V 7 A				
<b>ET110E■</b>					
<b>ET110F■</b>	AC125 V 10 A AC250 V 7 A				20,000 cycles

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

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

**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**

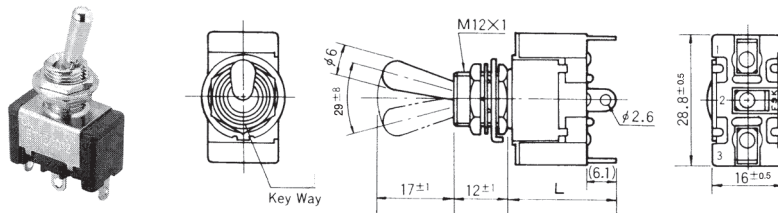
Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET115A</b> ■• <b>D</b> ■- <b>Z</b>		27.6 <sup>±1</sup>	25.4 <sup>±1</sup>	24.6 <sup>±1</sup>
<b>ET115E</b> ■- <b>Z</b>		27.6 <sup>±1</sup>	25.4 <sup>±1</sup>	24.6 <sup>±1</sup>
<b>ET115C</b> ■• <b>F</b> ~ <b>H</b> ■- <b>Z</b>		—	25.4 <sup>±1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

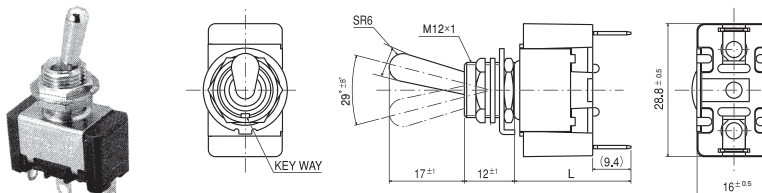
Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET120A</b> ■- <b>Z</b>		—	—	24.6 <sup>±1</sup>

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**

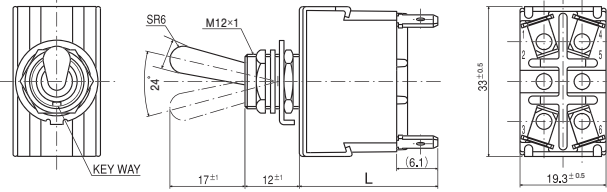
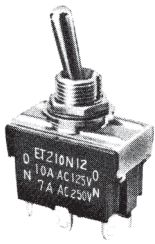
Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET125D</b> ■- <b>Z</b>		27.6 <sup>±1</sup>	28.8 <sup>±1</sup>	24.6 <sup>±1</sup>

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.

**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	—	—

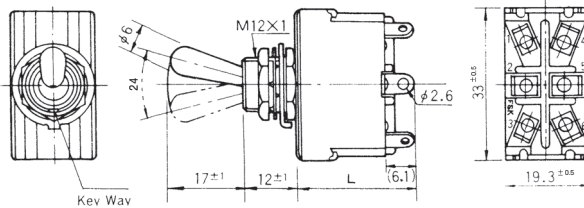
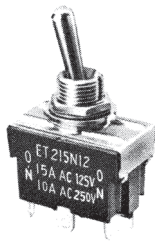
■ : Refer to "Table of Part Numbers" for a full list of part numbers.of part numbers.

**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**

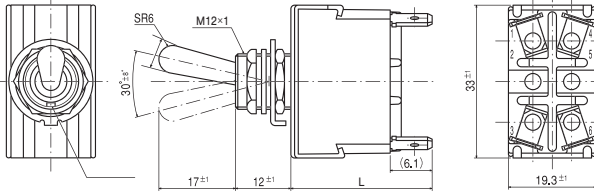
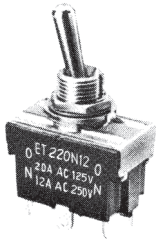
Rating		Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET215K■</b>	AC125 V 15 A	20 mΩ Max. (DC2 V 100 mA)	AC1500 V minute	100 MΩ Min. (DC500 V)	30,000 cycles
<b>ET215N■</b>	AC250 V 10 A				
<b>ET215P■</b>					
<b>ET215M■</b>	AC125 V 15 A				20,000 cycles
<b>ET215S■</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>ET220K■•N■-Z</b>		-	-	27.6 <sup>±1</sup>

Part No.	Switching function	Key way	Key way	Key way
<b>ET220K■-Z</b>	ON	—	—	OFF
Connecting terminals	1-3 4-6	—	—	—
<b>ET220N■-Z</b>	ON	—	—	ON
Connecting terminals	2-3 5-6	—	—	2-1 5-4

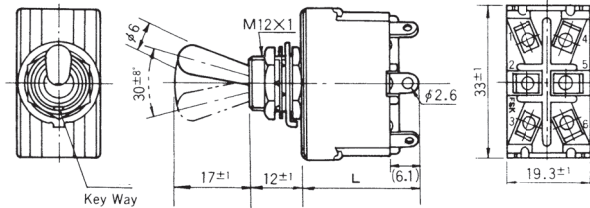
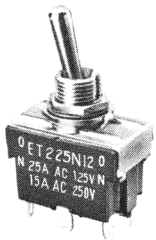
■ : Refer to "Table of Part Numbers" for a full list of part numbers.

**Specifications**

Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET220K■</b> <b>ET220N■</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

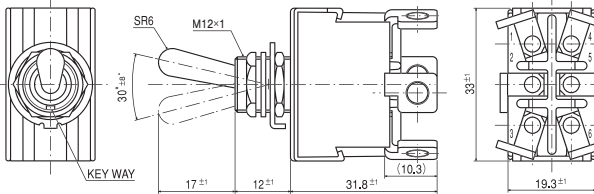
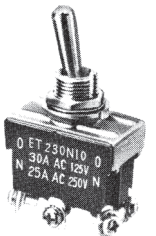
■ : Refer to "Table of Part Numbers" for a full list of part numbers.

**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.

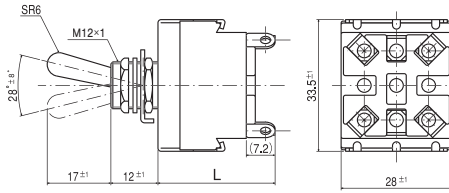
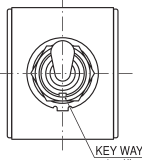
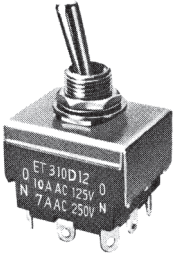
Part No.	Switching function	Key way	Key way	Key way
★ <b>ET230N■-Z</b>	ON	—	—	ON
★ <b>ET230P■-Z</b>	ON	OFF	—	ON
Connecting terminals	2-3 5-6	—	—	2-1 5-4

**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".



Terminal numbers are shown on the bottom of the switch.

**Specifications**

	Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET310A</b>	AC125 V 10 A	20 mΩ Max.	AC1500 V	100 MΩ Min.	20,000
<b>ET310D</b>	AC250 V 7 A	(DC2 V 100 mA)	minute	(DC500 V)	cycles
<b>ET310E</b>					

**L dimensions**

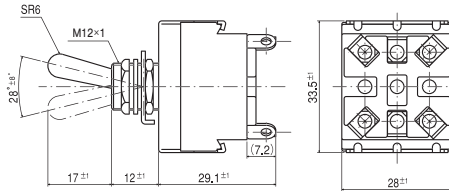
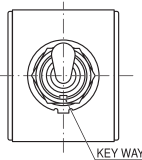
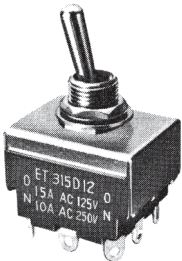
Part No.	Terminal style	TAB#250	ScrewTerminal	Solder Terminal
<b>ET310A-Z</b>		34 <sup>+2</sup>		
<b>ET310D-Z</b>		36.4 <sup>±1</sup>	-	29.1 <sup>±1</sup>
<b>ET310E-Z</b>				

Part No.	Switching function	Key way	Key way	Key way
<b>ET310A-Z</b>		ON	—	OFF
	Connecting terminals	1-3 4-6 7-9	—	—
<b>ET310D-Z</b>		ON	—	ON
<b>ET310E-Z</b>		ON	OFF	ON
	Connecting terminals	2-3 5-6 8-9	—	2-1 5-4 8-7

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

**ET315□12 (3 poles)**

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



Terminal numbers are shown on the bottom of the switch.

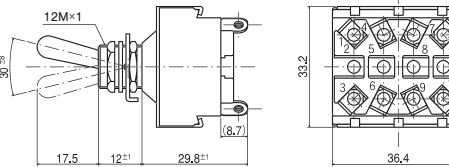
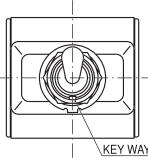
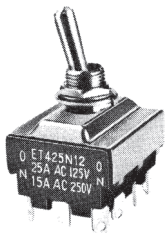
**Specifications**

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

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

**ET425□12 (4 poles)**

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



Terminal numbers are shown on the bottom of the switch.

**Specifications**

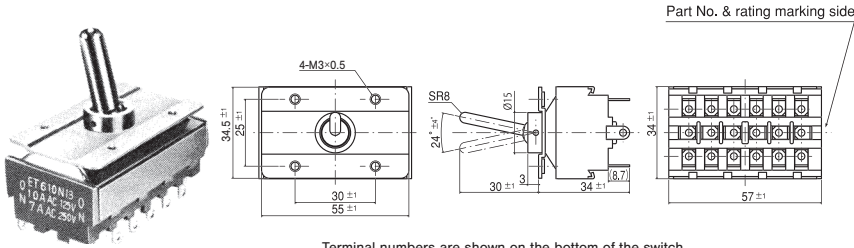
	Rating	Initial contact resistance	Dielectric strength	Insulation resistance	Electrical life
<b>ET425K12</b>	AC125 V 25 A	20 mΩ Max.	AC1500 V	100 MΩ Min.	20,000
<b>ET425N12</b>	AC250 V 15 A	(DC2 V 100 mA)	minute	(DC500 V)	cycles

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

★ : Made to order products.

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

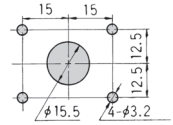
**ET610N13 (6 poles)**



Switching function	Viewed from part No. and rating marking side		
Part No.	☆ <b>ET610N13-Z</b>	—	ON
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**

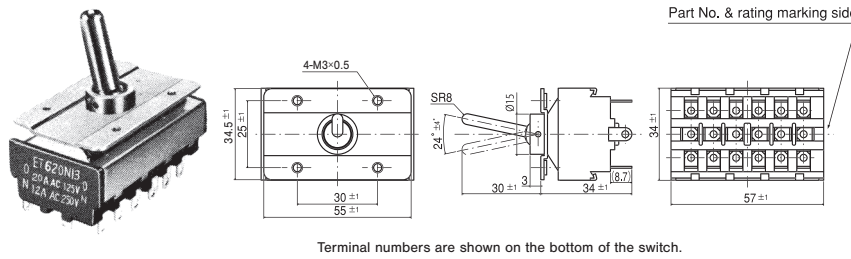
(Plate mounting type)



**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

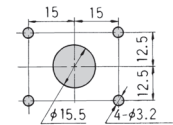
**ET620N13 (6 poles)**



Switching function	Viewed from part No. and rating marking side		
Part No.	★ <b>ET620N13-Z</b>	—	ON
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	—	—

Even if the products are of UL- or CSA-approved ones, The products in stock do not carry the UL mark of the CSA mark. When placing an order, be sure to specify "With UL/CSA Mark." For the products with the UL mark or the CSA mark, extra costs will be added.  
UL File No. E43275 CSA File No. LR38341

**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》

Type	ET-8B		ET	ET	
Part Name	Plate	Plate	Waterproof boot	Boot	Bushing
Part No.	<b>140008040021</b>	<b>140008040025</b>	Red 140000610335 Gray 140000610334 Black 140000610333	<b>140000610080</b>	<b>140008010244</b>
Dimensions					

**Handling Precautions**

**1. Soldering Specifications**

(1) Manual Soldering

Device : Soldering iron  
420°C, Max.; 3 seconds, Max.

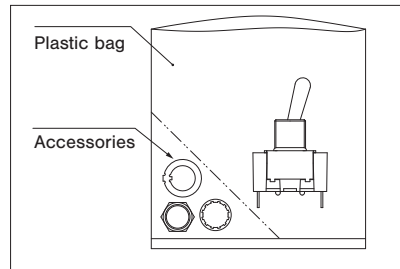
(2) Waterproof boot

- ①The boot is fixed to the switch with the built-in screw.
- ②The 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**



## Looking for pricing, stock, or lifecycle information?

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