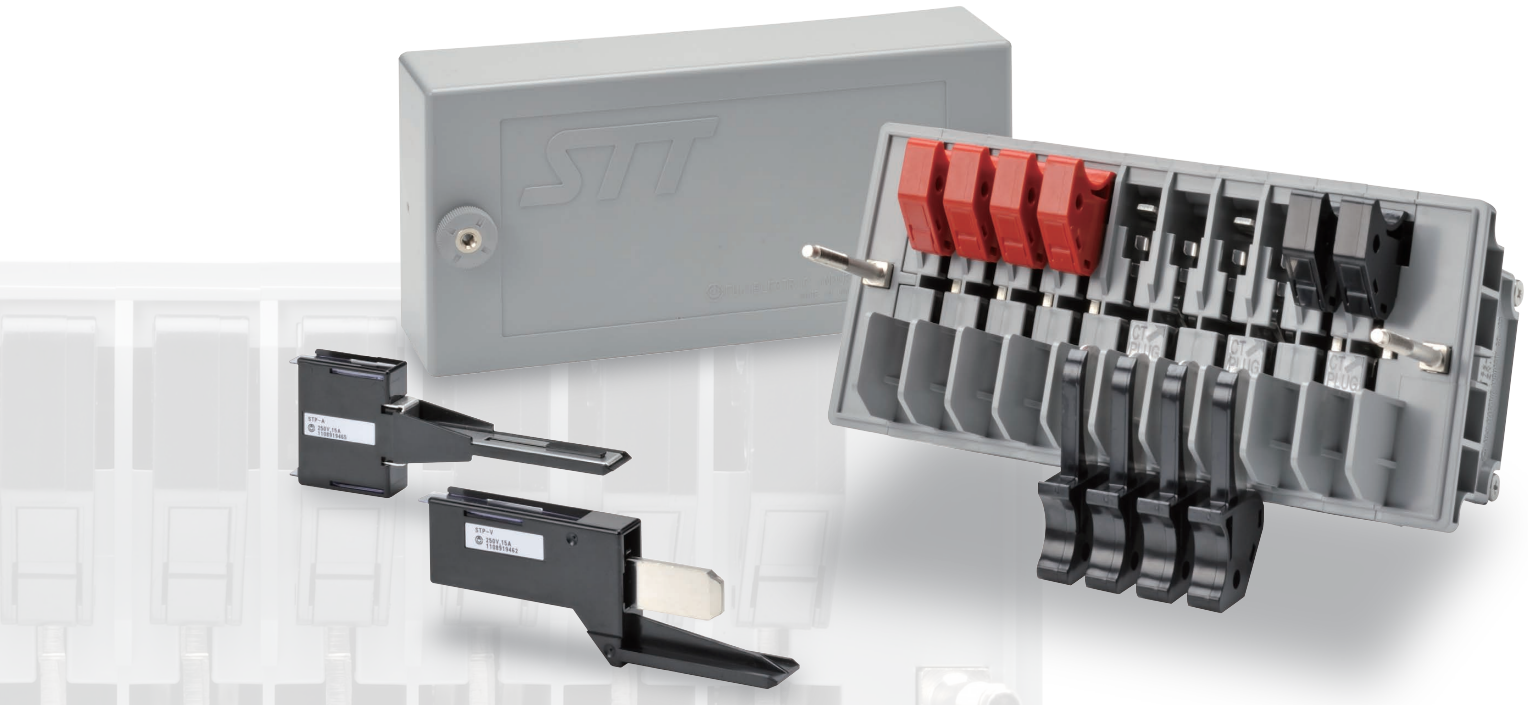
TEST SWITCH

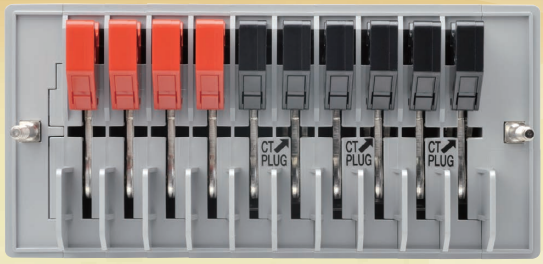
STT type

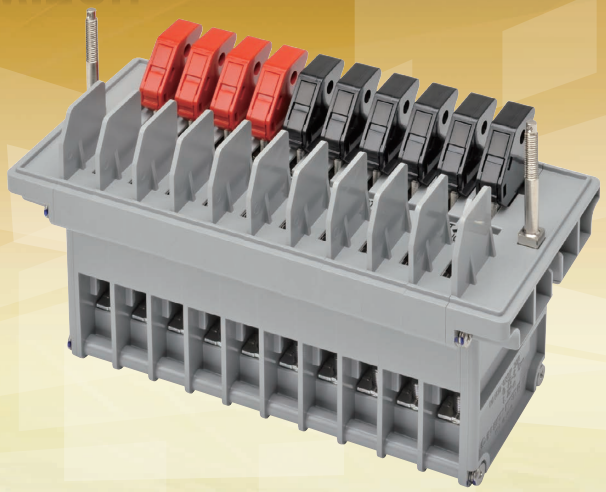


FUJI ELECTRIC INDUSTRY CO., LTD.

STT type TEST SWITCH

High safety and contact reliability lever operation type Test Switch





Conformity with major standards

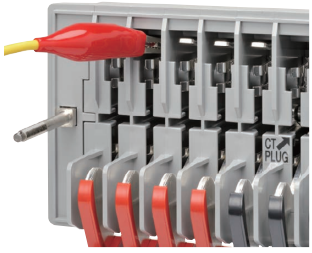
STT type conforms to IEC60497-3 and applies to UL414.

Wire dropping-off prevention

The rib on the terminal portion leads a ring tongue to proper position. This structure prevents improper connection of the screw and ring tongue.

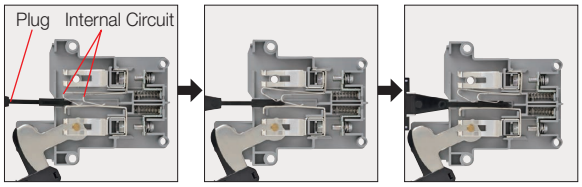
Easy voltage test by general clips

Voltage circuit testing can be easily conducted by general clips like an alligator clip as well as dedicated plugs.



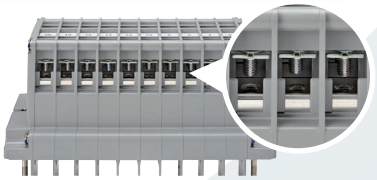
Open-Circuit prevention

Internal circuit of A and AS units (for Current Circuit) is double, which certainly prevents Open-Circuit during inserting a plug.



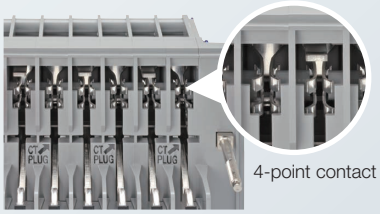
Efficient wiring work by Up-Screw Terminal

Up-Screw terminal makes wiring work more efficiently.



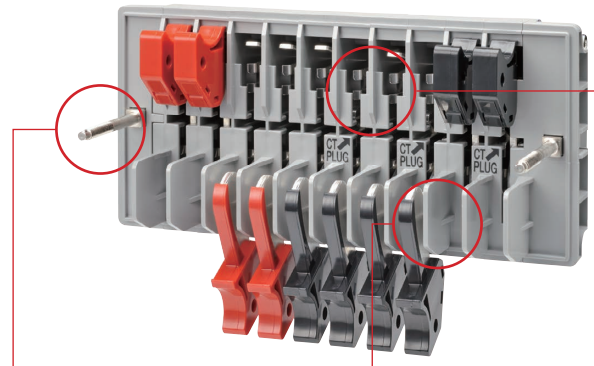
High contact reliability by 4-point contact

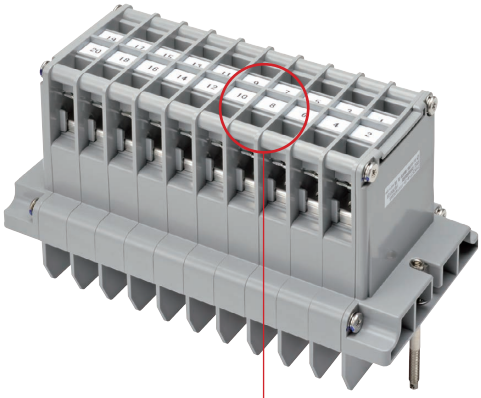
The multi point contact structure of clips enhances contact reliability.



Safety Structure

STT type is high safety structure.





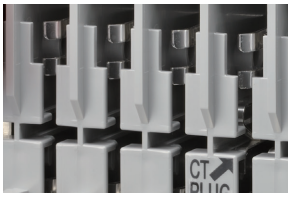
Wire holes

Wires can be attached to prevent cover removal.

Separators

Protective separators are set up between units to prevent easy finger touch on live portion while levers are disconnected.

Clip portion



Clips are in deep-set position from surface, and fingers do not reach to live portion.

Terminals

Screw terminals are finger protective structure.
(IP20 equivalent)

Ratings and Specifications

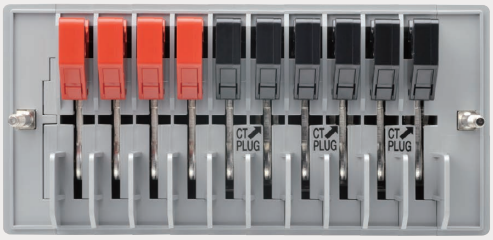
Standard: IEC60497-3, UL414

Item			STT type
Ratings	Rated Insulation Voltage (Ui)		690V 250V (AS unit, close condition)
	Rated Impulse Withstand Voltage (Uimp)		±6kV ±2.5kV (AS unit, close condition)
	Conventional Free Air Thermal Current (Ith)		30A
	Rated Making and Breaking Capacity		250V AC (COSφ=0.95) 0.15A AC 250V DC (L/R=1ms) 0.15A DC
	Rated Short-Time Withstand Current (Icw)		360A AC (COSφ=1) - 1sec
	Rated Short-Circuit Making Capacity (Icm)		250V AC 50A - 50msec (COSφ=1)
	Rated Operational Voltage (Ue)		250V
	Rated Operational Current (Ie)		0.1A
	Utilization Category		AC-21B, DC-21B
	Rated Connecting Capacity		0.75-5.5mm^2 (AWG18-10)
	Screw Size		M4 X 9
	Clamping Torque		1.2N·m (Terminal), 0.8N·m (Plug)
Normal service conditions	Ambient Air Temperature	Performance Guarantee	-5 to 40℃
		Usable	-25 to 70℃
	Storing temperature		-40 to 85℃ (Not freeze)
	Humidity		45 to 85%
	Altitude		2,000m or less
	Pollution degree		Degree 3

How to Order

Test Switch

Pole No. — 1 2 3 4 5 6 7 8 9 10



Lever Side

STT-N-10- □□□□□□□□□□

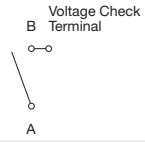
①Unit Type

- □□□□□□□□□□ **-** □

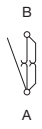
②Lever Color ③Cover Color

① Unit Type

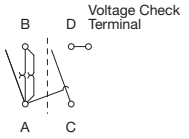
V For Voltage Circuit



A For Current Circuit



AS For Current Circuit (2 units)



C Blank Unit (No Internal Circuit)

② Lever Color

Code	Color
B	Black
N	Gray
R	Red
O	Orange
L	Light Blue
G	Green
Y	Yellow
C	Brown
W	White
–	None ([C]Unit only)

③ Cover Color

Code	Color
(blank)	Gray
C	Clear

● Typical Unit Type Combination (Other combinations are available.)

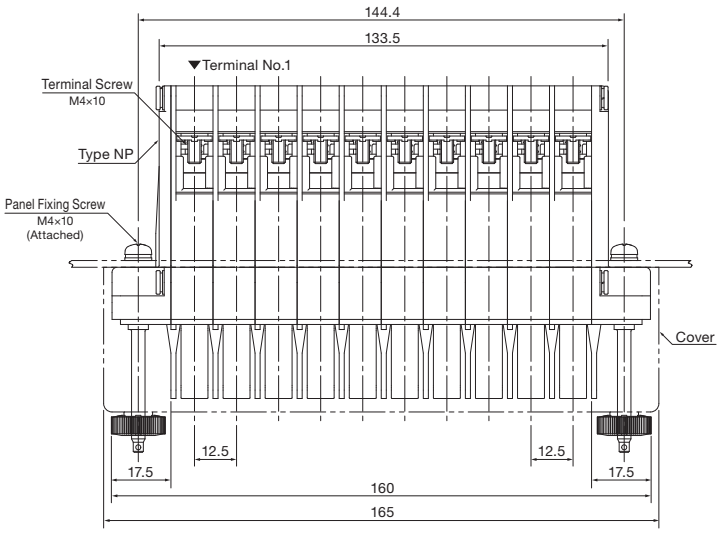
Pole No. (Terminal No.)	1 (1-2)	2 (3-4)	3 (5-6)	4 (7-8)	5 (9-10)	6 (11-12)	7 (13-14)	8 (15-16)	9 (17-18)	10 (19-20)
VVVVVVVVV	V	V	V	V	V	V	V	V	V	V
AAAAAAAAA	A	A	A	A	A	A	A	A	A	A
CVVVVVVVV	C	V	V	V	V	V	V	V	V	V
VVVVVVASV	V	V	V	V	V	V	V	AS		V
VVVVVAASV	V	V	V	V	V	V	A	AS		V
VVVVASASV	V	V	V	V	V	AS		AS		V
VVASVVASV	V	V	V	AS		V	V	AS		V
VASVVVASV	V	AS		V	V	V	V	AS		V
ASASVVVVV	AS		AS		V	V	V	V	V	V
VVVASASASV	V	V	V	AS		AS		AS		V
ASASASASCC	AS		AS		AS		AS		C	C

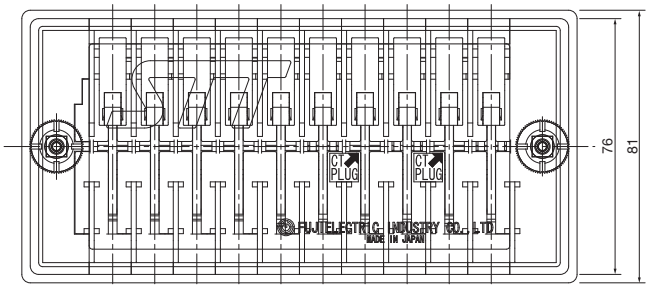
Test Plugs

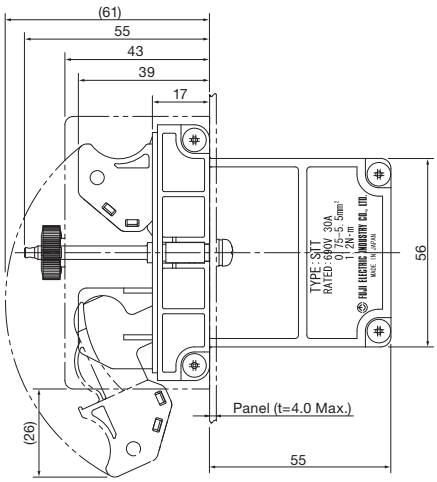
STP-V	For Voltage Circuit (Screw Terminal)
STP-A	For Current Circuit (Screw Terminal)
STPN-A	For Current Circuit (Clamp Terminal)

Outline and Panel Cutout Dimensions

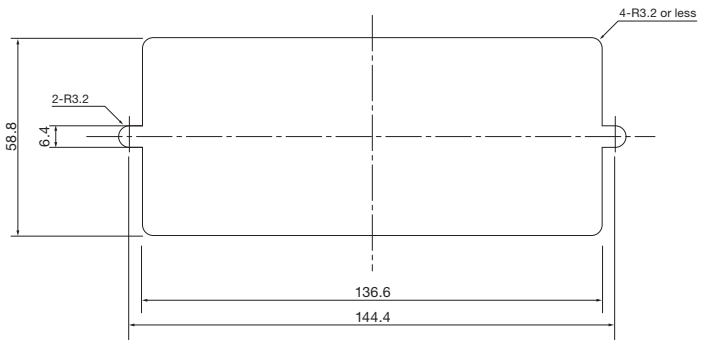
Dimensions : mm



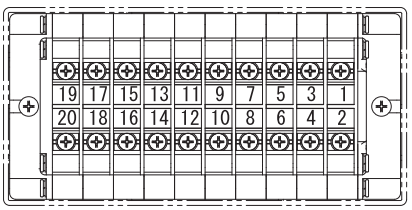




Panel Cutout Dimension

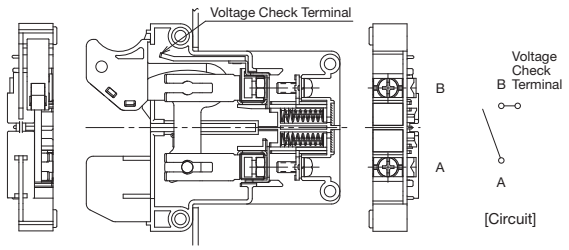


Terminal Side View

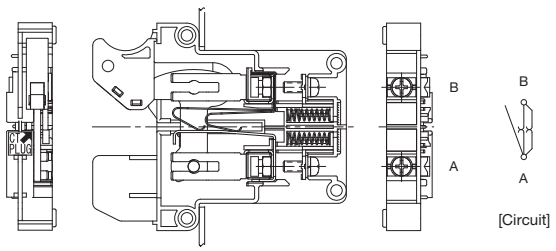


Unit Outline and Circuit Diagram

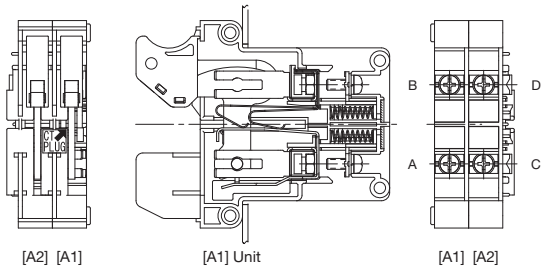
V Unit (For Voltage Circuit)

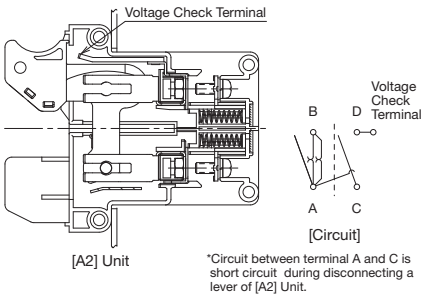


A Unit (For Current Circuit)



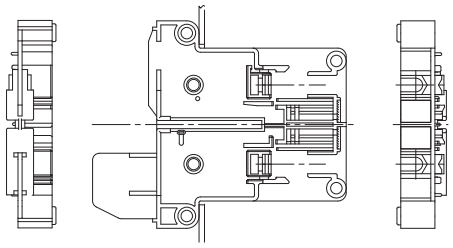
AS Unit (For Current Shorting Circuit)





*Circuit between terminal A and C is short circuit during disconnecting a lever of [A2] Unit.

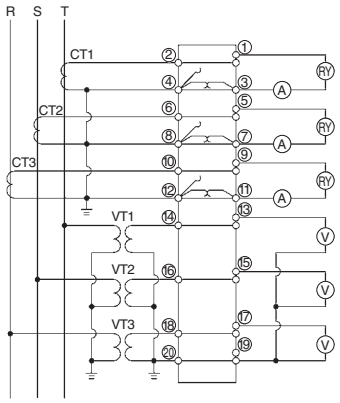
C Unit (Blank Unit)



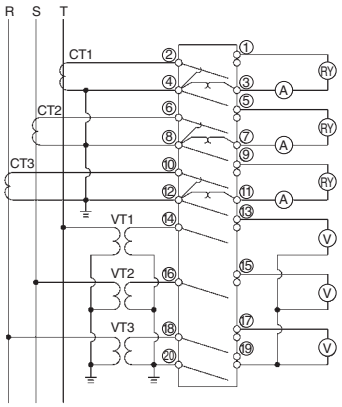
*No Circuit and Lever

Typical Circuit Example

Lever - Connected

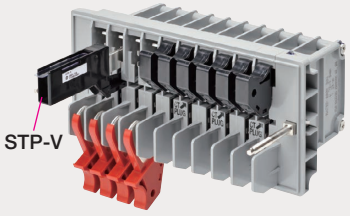


Lever - Disconnected

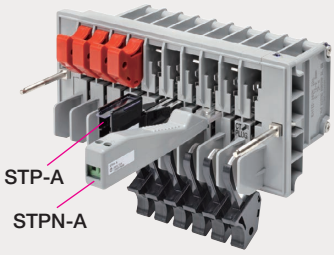


Pole No. (Terminal No.)	1 (1-2)	2 (3-4)	3 (5-6)	4 (7-8)	5 (9-10)	6 (11-12)	7 (13-14)	8 (15-16)	9 (17-18)	10 (19-20)
ASASASVVVV	AS		AS		AS		V	V	V	V

Plug Insertion



Voltage Plug insertion to V (Voltage) unit



Current Plug insertion to A (Current) unit

Voltage Plug insertion to V (Voltage) unit

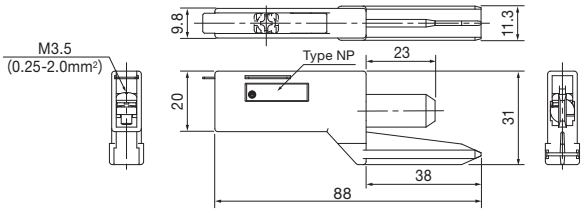
Accessories

Test Plugs

For Voltage Circuit (V Unit)

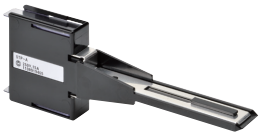
STP-V

Screw Terminal

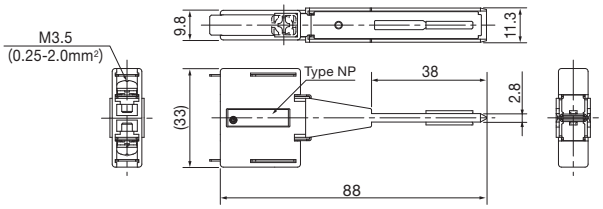


For Current Circuit (A·AS Unit)

STP-A



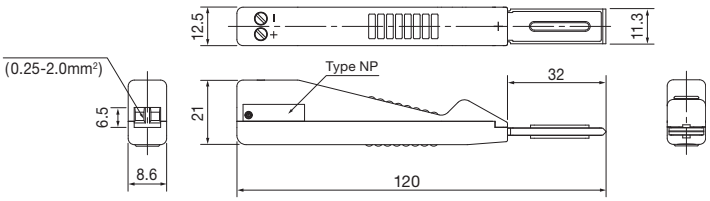
Screw Terminal



For Current Circuit (A·AS Unit)

STPN-A

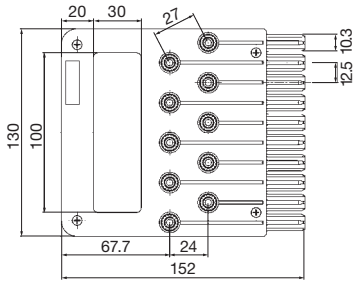
Clamp Terminal



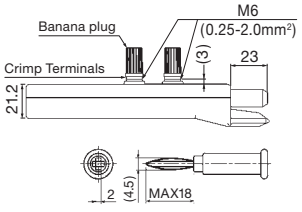
For Voltage Circuit (V10 Unit)

STP10-V

Knob Terminal



● Both banana plugs and crimp terminals can be used.



*Example of banana plug

Covers

STT-CV-N

*STT-CV-N is attached with STT body as a standard equipment.

STT-CV-C

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https://www.fujidk.co.jp/english/

⚠ Notes on Use

• Use our products at the correct voltage and amperage indicated. • Connection mistakes lead to accidents. Thoroughly check connections before starting operation. • Before use, be sure to check lead wires for breakage and other problems. • Tighten terminal screws to a tightening torque compliant with relevant standards. • Do not apply stress to connected cables during use. • Do not apply any excessive shock or vibration to our products. • Use our products under conditions free from organic solvents, oils, or other similar liquids. • Avoid using our products in abnormal environments involving high temperature and humidity, dust, corrosive gases, vibration, or shock. • For special applications, thoroughly check specifications before use.

* Note that information such as specifications and model names may change without prior notice for future improvement.
* The information in this brochure is current as of October 2023.

SK STT-E 2310-10