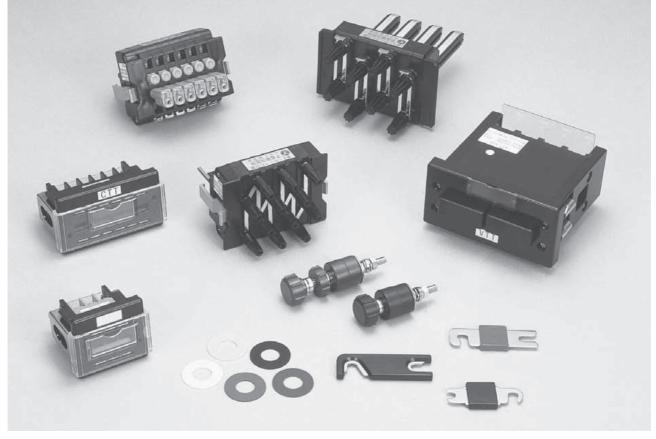
TEST TERMINAL



FEATURES

Simplified calibration and testing procedures

Our test terminals allow you to perform calibration and testing procedures with instrument and relays connected in place, resulting in great labor saving.

Broad range of applications

Our test terminals are available in a broad range of types including the stud type and insertion type to meet your current capacity requirements ranging from 5 to 30A and your applications.

Safety structure

Our test terminals for CT circuits are designed to prevent the circuit open. Both of the insertion type test terminals

for PT and CT circuits assure safety with their structure that prevents wrong insertion.

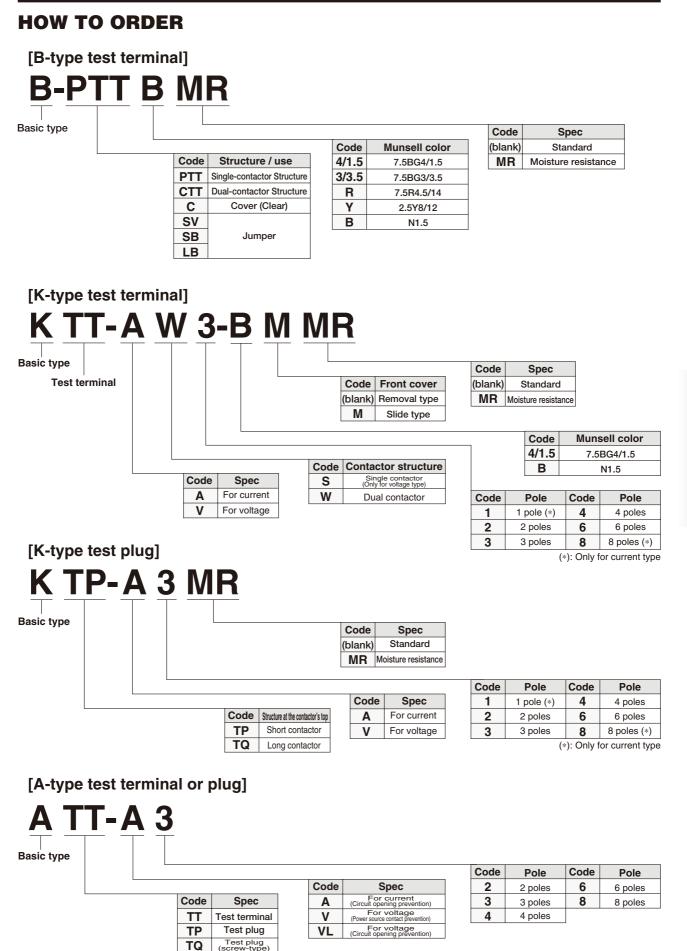
High insulation and anti-inflammability For the housing material, high-performance engineering plastics is used to provide high insulation, anti-inflammability, and impact resistance.

Special spec for tropical region To ensure high durability in harsh use under tropical regions, special protective treatment is applied to some products, which are available in the same ratings, performance, and dimensions as those of the standard products.

SPECIFICATIONS (RATINGS, PERFORMANCE)

Specification	B-TYPE	К-ТҮРЕ	A-TYPE					
Rated insulation voltage (Ui)	250V	500V	250V					
Rated current-carrying capacity (Ith)	10A *	10A	5A					
Max. wire size	8mm ²	5.5mm ²	2mm ²					
Withstand voltage	1 min. at 2	2,500V AC	1 min. at 2,000V AC					
Lightning impulse	±7kV 1.2	2 / 50 µs	±3kV 1.2 / 50 μs					
Operating temperature		-5 to 40°C						
Insulation resistance	Insulation-resistance meter	Insulation-resistance meter (500V DC) 1,000 M Ω						
Overload capacity	1 sec. at 200 A AC							

* Operating current-carrying capacity as general termial use: 30 A



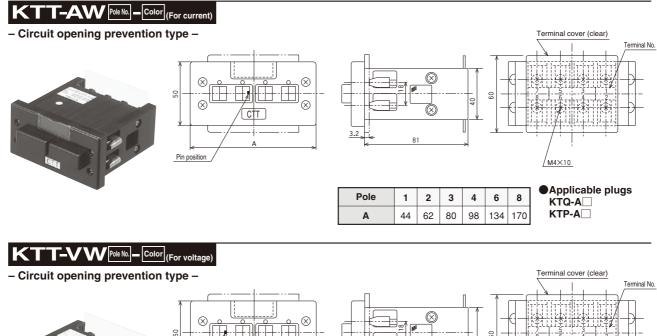
CONTROL

D TEST TERMINAL

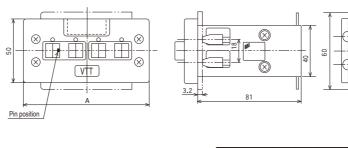
PILOT LAMP &



STANDARD PRODUCTS (TERMINAL)







Pole

A

2 3 4

62 80

98



ΤV Pole No. Color (For voltage) КΤ 9 Terminal cover (clear) - Power-source contact prevention type -Terminal No. \otimes \otimes \approx 00 \otimes í vtt 3.2 Pin position <u>/ M4×10</u> Applicable plugs Pole 2 3 4 6 KTP-V Α 62 80 98 134

Combinations of test terminals and plugs, and applications

Test terminal	Test plug	Application			
KTT-AW	KTQ-A	Combination of circuit disconnection prevention types (Recommendation)			
KTT-AW	KTP-A	Combination of circuit disconnection prevention types (Recommendation)			
KTT-VW	KTQ-V	Combination of circuit disconnection prevention types (Recommendation)			
KTT-VS	KTP-V	Combination of power-source contact prevention types (Recommendation)			

A Precautions on use

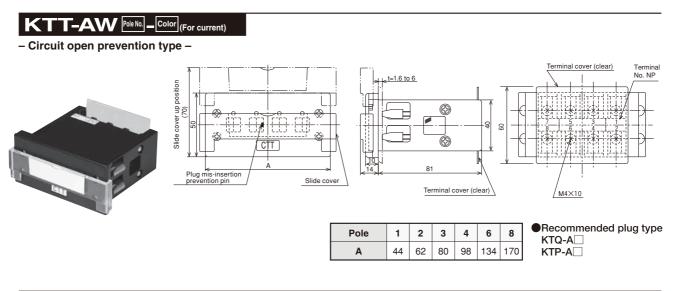
- •To insert a test plug, be sure to lock the relay.
- ●If another power source is used when a voltage circuit is tested, select the combination of KTT-VS □ and KTP-V□ to prevent any contact with the test power source.
- In order to prevent any contact with the test power source, be sure to turn OFF the power switch when inserting a plug.
- when inserting a plug. For the purpose of preventing a momentary circuit disconnection. Combination of KTT-AW and KTQ-A are recommended for high contact reliability.

A TERMINAL BLOCK

B CONNECTOR

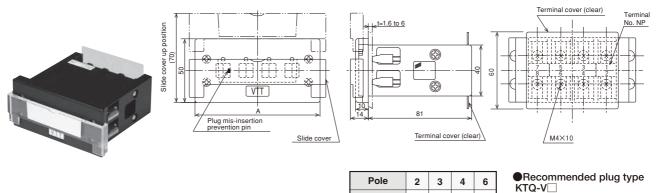
CONTROL

SLIDE COVER MODELS (TERMINAL)



KTT-VW Pole No. - Color M (For voltage)

- Circuit open prevention type -



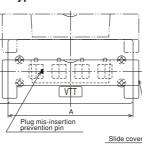
Α

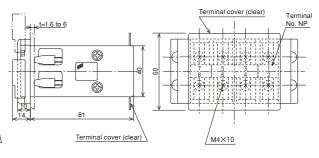
62 80 98 134

KTT-VS Pole No. - Color M(For voltage)

- Power source contact prevention type -





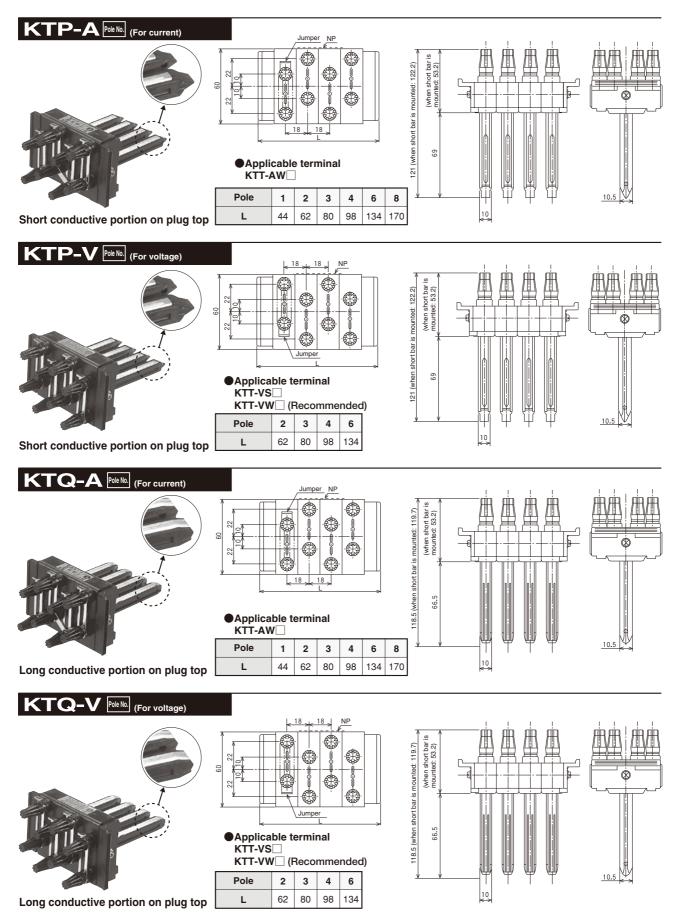


Pole	2	3	4	6
Α	62	80	98	134

●Recommended plug type KTP-V□



STANDARD PRODUCTS (PLUG)



JUMPERS SUPPLIED WITH TEST PLUGS

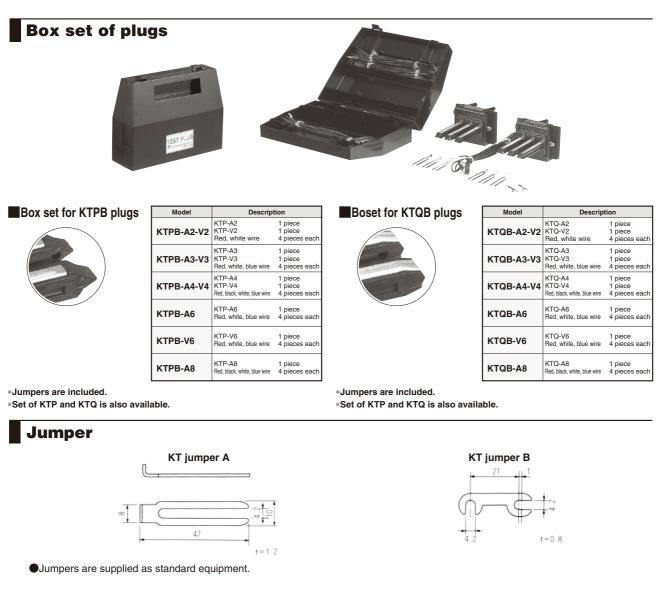


The quantities of ju	Imbei	rs sup	plied	are s	hown	as be	elow:			
Model	Model KTP-A / KTQ-A				KTP-V / KTQ-V					
Pole Pole	1P	2P	3P	4P	6P	8P	2P	3P	4P	6

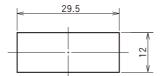
Jumper Pole	1P	2P	3P	4P	6P	8P	2P	3P	4P	6P
KT jumper A	—	2	3	4	6	8	2	3	4	6
KT jumper B	—	1	2	3	5	7	—	—	—	_

KT jumper A KT jumper B (Vertical jumper) (Horizontal jumper)

ACCESSORIES



Nameplate for usage display [common to KTT and ATT]



 Indicated character
 CT secondary
 PT secondary
 GPT secondary
 GPT third
 Blank

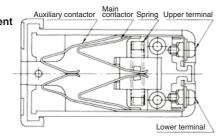
 Code
 PT2RY
 VT2RY
 GPT2RY
 GPT3RY
 CT2RY



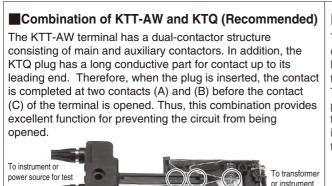
STRUCTURES AND EACH COMBINATION CHARACTERISTIC

Diagram of

contactor for current (KTT-AW_)

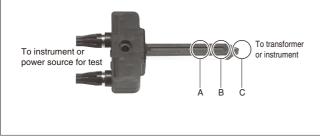


When a plug is inserted and the auxiliary contactor is opened, the main contactor will not be opened. The auxiliary contactor closes before the plug releases the main contactor. Either the auxiliary contactor or the main contactor always make circuit with a plug, preventing the CT circuit opening.

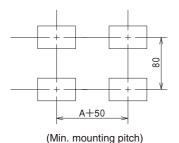


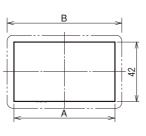


The KTT-AW has a dual-contactor structure consisting of main and auxiliary contactors. The KTP plug has a shorter conductive part for contact than the KTQ. However, when it is inserted, the contact (A) of the terminal is closed before the contact (C) is opened (the contact (B) starts being closed after the contact (C) has been opened).



PANEL CUTOUT DIMENSIONS





Size	1P	2P	3P	4P	6P	8P
Α	36	54	72	90	126	162
В	44	62	80	98	134	170

Ŕ Ć

Diagram of

(KTT-VS

Contactor Spring Upper terminal contactor for voltage φ Lower terminal

When the plug is inserted, the contactor is opened. This state will be maintained until the contactor makes contact with the contact point of the plug. This eliminates the possibility of making contact with the power source.

Combination of KTT-VS and KTP (Recommended)

The KTT-VS has a single-contactor structure consisting of a main contactor only. The KTP has a long conductive part for contact up to 10 mm before its leading end (the leading 10 mm part is an insulator). When the plug is inserted, the contact (C) of the terminal is opened before the contact (B) is closed. Therefore, even if another power source is inserted from the plug when the plug is inserted or removed, there will be no possibility of making contact with the power source. However, when the circuit voltage is measured with a test instrument, the relay will malfunction due to the momentary disconnection of the circuit. For this reason, the relay must be locked.



Combination of KTT-VS and KTQ (special combination)

The KTT-VS has a single-contactor structure consisting of a main contactor only. However, the KTQ has a long conductive part for contact up to its leading end. Therefore when the plug is inserted, the contact (B) of the terminal is closed before the contact (C) is opened.

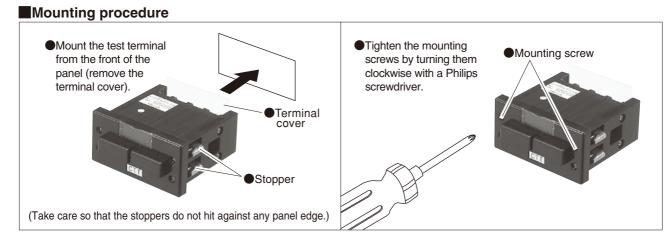
This ensures that the circuit never be opened when the plug is inserted or removed. Therefore, when the circuit voltage is measured using a test instrument, the relay will not malfunction due to the momentary disconnection of the circuit. However, if you try to insert another power source from the plug, a temporary connection with the power source will occur.



BLOCK

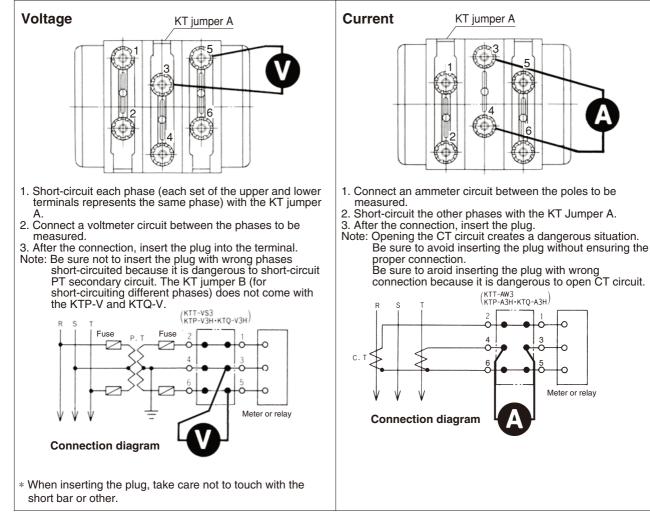
NAL C CONT

DIRECTIONS FOR MOUNTING



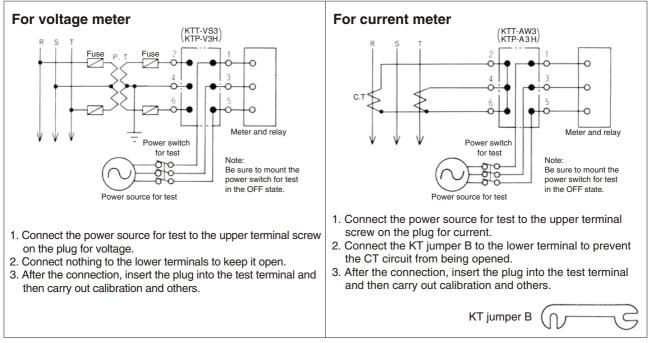
OPERATING INSTRUCTIONS

Measuring current and voltage



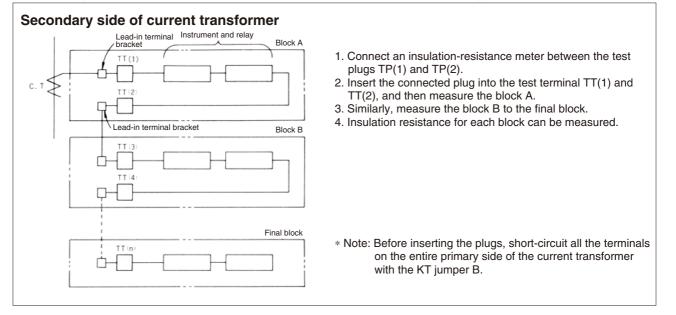


Calibrating a meter and testing a relay with the test power source



* Note: Before connecting the power source for test, carefully check that it is connected to the correct terminals (not the vertically reverse ones). To inset the plug, be sure to turn OFF the power switch.

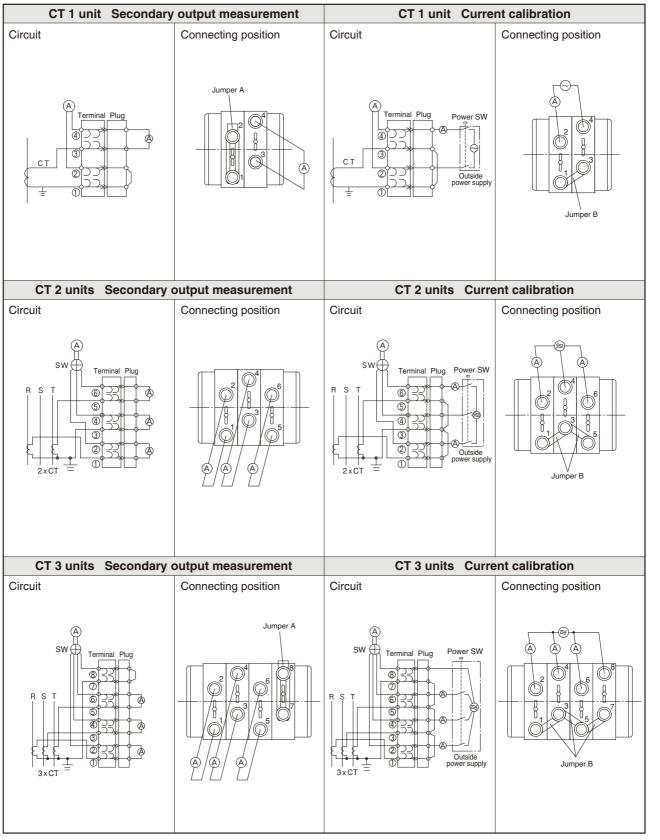
Checking for electrical discontinuity or breakdown in internal wiring of board



WIRING INSTRUCTION

Terminal: KTT-AW

Plug: KTP-A / KTQ-A



D TEST TERMINAL

PILOT LAMP &

ELECTRONIC