

Test Equipment

Test Switch/Test Block – 7XV75

Description

The test switch 7XV75 is used to test protection devices, including the transformer circuits and command contacts. Using the switches on the front, the current and voltage inputs and the circuits of the protection device to be tested are disconnected and connected to the front side. Using these plug connectors, currents and voltages can be supplied using test equipment and the various commands and indications can be tested.

Benefits

The following versions are available in a flush-mounting housing:

- For feeder protection without open neutral point
- For feeder protection without open neutral point and with additional contacts
- For feeder protection with no open neutral point for 2 transformer cores or separate ground-fault transformer
- For feeder protection with an open neutral point
- For feeder protection with an open neutral point and independently switchable trip and transformer circuits
- For 3-winding transformer differential protection
- For feeder protection without open neutral point, with a 4th current-transformer input and a 4th voltage-transformer input (3-stage test switch)

Applications

The following variants are available in a flush-mounting housing:

- For feeder protection without open neutral point
- For feeder protection without open neutral point and with additional contacts



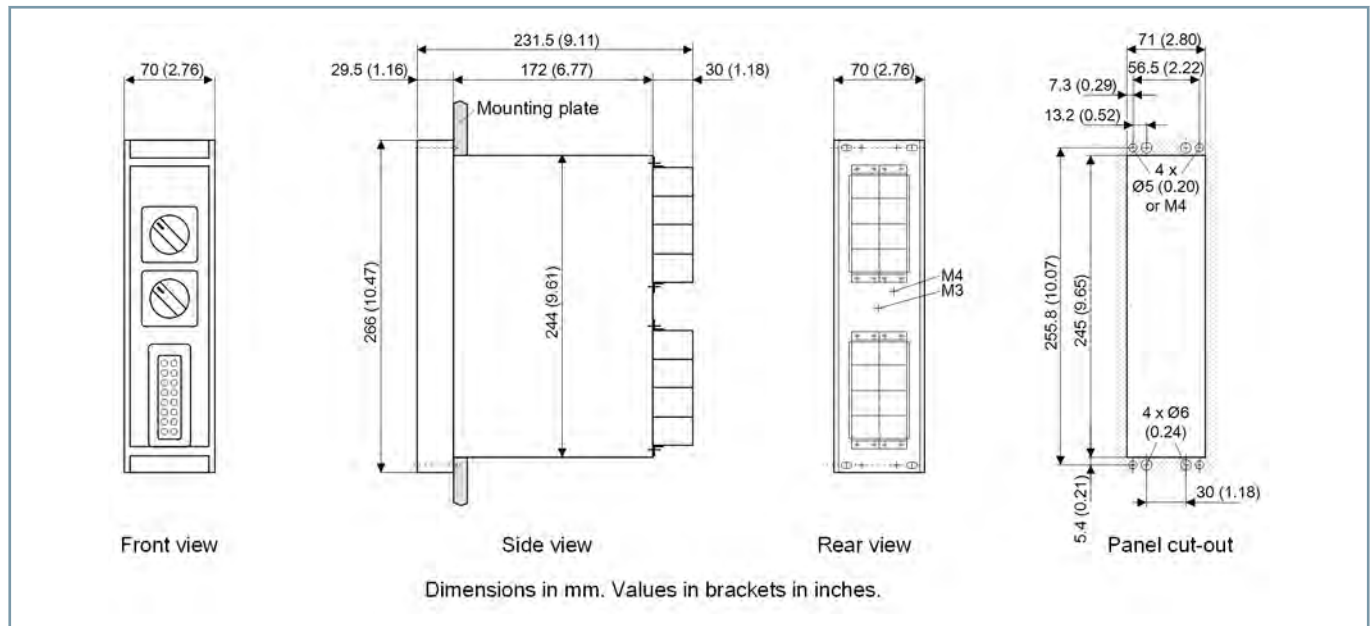
[ph_7XV75, 1, ...]

Figure 10.1/1 Test Switch 7XV75

- For feeder protection without open neutral point for 2 current-transformer cores or separate ground-fault current transformers
- For feeder protection with an open neutral point
- For feeder protection with an open neutral point and independently switchable trip and transformer circuits
- For 3-winding transformer differential protection
- For feeder protection without open neutral point, with 4th current transformer and 4th voltage-transformer input (3-stage test switch)

The test device can be used with auxiliary voltages in the range of AC/DC 24 V to 250 V. Therefore, there is no longer any need to select between different power-supply models.

Dimensional Drawing



[dw_7XV75-test-switch_dimensional_drawings_1_en_US]

Technical Data

General device data	
Rated operating voltage Vn	AC/DC 250 V
Rated operating current In	Max 5 A for all circuits
Test current capacity for 1 s	150 A for CT circuits
Test current capacity for 10 s	60 A for CT circuits
Continuous current	20 A for CT circuits
Overvoltage category, IEC 60255-27	III
Operating Altitude	Max 2000 m
Minimum admissible atmospheric pressure	783.8 hPA
Degree of pollution	2
Protection	Class 1

Electrical Tests	
Insulation tests	IEC 60255-27, Edition 2.0
Voltage test (routine test and type test)	2.5 kV; 50 Hz

Electrical Tests	
Impulse voltage test (type test)	5 kV (peak value); 1.2/50 µs; 0.5 J;
All circuits, class III	3 positive and 3 negative impulses at intervals of 5 s
Insulation resistance measurement	DC 500 V, For 1 min, ≥100 Ohm

Construction	
Metal case	7XP20
Dimension	1/6 of 19" wide
Weight	approx. 3.4 kg
Protection type acc. to IEC 60529	
With closed cover	IP40
With open cover	IP20
For operator protection	IP2x for terminals

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Selection and Ordering Data

Description	Order no.												
	1	2	3	4	5	6	7	8	9	10	11	12	
Test switch combination in a 7XP20 housing for panel flush mounting	7	X	V	7	5	0	□	–	□	C	A	0	0
							▲		▲				
Without open neutral point for feeder protection							0						
With 16-pole Harting plug									0				
With 16 insulated 4-mm plugs (not for 7XV7506)									1				
With open neutral point for feeder protection							1						
With 16-pole Harting plug									0				
With 16 insulated 4-mm plugs									1				
For 3-winding transformer							2						
With 16-pole Harting plug									0				
With 16 insulated 4-mm plugs									1				
Without open neutral point for 2 current-transformer cores or separate ground fault							3						
With 16-pole Harting plug									0				
With 16 insulated 4-mm plugs									1				
Without open neutral point for feeder protection							6						
With 4 current-transformer inputs and 4 voltage-transformer inputs													
With 16-pole Harting plug													
Without open neutral point for feeder protection with additional make and break contacts							7						
With 16-pole Harting plug									0				
With 16 insulated 4-mm plugs									1				
With open neutral point, independently switching trip input circuit							8						
With 16-pole Harting plug									0				
With 16 insulated 4-mm plugs									1				
Connecting cable 7XV6201 for test switch 7XV75 with 2 m cable													
With 16-pole Harting plug and 17 insulated plugs, 4 mm with core marking and tagging	7	X	V	6	2	0	1	–	5				
With 16-pole Harting plug and 17 end sleeves with core marking and tagging	7	X	V	6	2	0	1	–	6				

10.1