



# Product Discontinuation Notices

May 9, 2011

Measuring/Motor Protective Relays

No. 2011147E

Discontinuation Notice of Zero-phase Voltage Detection Unit. VOC-3S

## **Product Discontinuation**

Zero-phase Voltage Detection Unit

# Recommended Replacement

Zero-phase Voltage Detection Unit



VOC-3S

VOC-1MS2

#### Discontinuation date : The end of March, 2012

**Caution on recommended replacement** 

Wiring and outer diameter will be changed. Please be careful with when installing.

### Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
VOC-1MS2					*	*	*

\*\* : Fully compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement	
VOC-3S	VOC-1MS2	



Dimensions



### **Wire Connection**



## Mounting dimensions



## Characteristics

Product discontinuation VOC-3S				
Rated voltage	6,600 VAC			
Rated frequency	50/60 Hz			
Output voltage	7.6 VAC (when 6,600 VAC line is in complete ground fault condition)			
I/O phase angle	180± 10°			
Insulation rank	No.6 A (JEC1201)			
Dielectric strength	22,000 VAC for 1 min (between each high-voltage terminal and case and between high-voltage terminals) 2,000 VAC for 1 min (between output terminal and case)			
Insulation resistance	1,000 M $\Omega$ min. (between each hige-voltage terminal and case); 10 M $\Omega$ min. (between output terminal and case) at 1,000 VDC			
Impulse withstand voltage	1.2/50 μs, peak value: 65,000 V (JEC212) (between high-voltage terminal and case)			
Ambient temperature	Operating: -20 to 60°C			
Operation condition	Indoor (in air)			
Weight	Approx. 6.2 kg			
Note: Changing betwe	en 50 Hz operation and 60 Hz operation can be achieved through selective connections at output terminals.			

## Recommendable replacement VOC-1MS2

#### VOC-1M

JC IM		
Rated voltage	6,600 VAC	
Rated frequency	50/60 Hz	
Rated capacity	250pF	
Insulation rank	No.6 A (JEC1201)	
Dielectric strength	22,000 VAC for 1 min (between high-voltage terminal and mounted terminal) 2,000 VAC for 1 min (between low-voltage terminal and mounted terminal)	
Insulation resistance	1,000 M $\Omega$ min. (between hige-voltage terminal and mounted terminal) at 1,000 VDC	
Lightning impulse withstand voltage	1.2/50 μs, between hige-voltage terminal and mounted terminal, peak value: 65,000 V	
Ambient temperature	Operating: -20 to 60°C	
Operation condition	Indoor (in air)	
Weight Approx. 550 g (per 1 product)		

#### K3P-M

Rated frequency	50/60 Hz (Select short bar of terminal.)	
Rated output voltage	ted output voltage 7.6 VAC (when 6,600 VAC line is in complete ground fault condition)	
Dielectric strength	2,000 VAC for 1 min (between output terminal and case)	
Insulation resistance	10 $M\Omega$ min. (between output terminal and case) at 1,000 VDC	
Ambient temperature	Operating: -20 to 60°C	
Operation condition	Indoor (in air)	
Weight	Approx. 600 g	