

<b>SPECIFICATION</b>		Specification No.	T-120790C01-03		
		Drawing No.	T-120790C01	Revision	Page 1/3
Product Name	Low-voltage surge protective devices Model FV-100	Enactment Date	Nov.29.2012	Revision Date	
		Drawing Section	Sales Engineering Department		

1. General

From abnormal Voltage induced in the power supply circuit of maximum continuous working Voltage 130VAC, this product is a form FV-100 for power supply safety equipment for the protection of power equipment.

Fuse to disconnect from the line will have been equipped with SPD.

2. Environmental Condition

- 2.1 Location of use : Indoor
- 2.2 Rated operation temperature : -40°C~+70°C
- 2.3 Rated operation humidity : 90% or less (without dew condensation)
- 2.4 Storage temperature: : -40°C~+70°C
- 2.5 Storage humidity: : 90% or less (without dew condensation)
- 2.6 Altitude: : 2000m or less

3. Construction

3.1 Composition and Appearance diagram  
Appearance diagram : T-120790A01

3.2 Marking

- ① Model of product
- ② SPD type (Class II)
- ③ Protection level(IP)
- ④ Maximum continuous operating voltage ( $U_C$ )
- ⑤ Voltage protection level ( $U_P$ )
- ⑥ Discharge parameters ( $I_{max}$ )
- ⑦ Manufacture year/month
- ⑧ Manufacturer name

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#### 4. Characteristics

Table 1

Item		Condition for determination	Characteristics
Test classification			Class II
Max. continuous operating voltage $U_c$			130V(50/60Hz)
Max. discharge current $I_{max}$		8/20 $\mu$ s	20kA
Nominal discharge current $I_n$		8/20 $\mu$ s	10kA
Protection level $U_p$			<700V
Response speed			<3ns
Insulation resistance	Between the terminal	DC 100V	>100M $\Omega$
	Mounting Plate- each erminal		
Degree of protection			IP20
Operation indicator fuse			Visual confirmation
Identification of terminal			Indicator
Mounting method			DIN rail(35mm width)
Connection conditions			According to the item 5

Note 1) Temperature and humidity shall be comply with JIS-Z8703(standard condition of test site) standard temperature condition  $20^{\circ}\text{C} \pm 15^{\circ}\text{C}$ , standard humidity condition  $65\% \pm 20\%$ , when measure the characteristics of product.

Note 2) The characteristics of Remote contact is based on SPD insertion into the receptacle.

#### 5. Wiring

Following cables are accepted.

solid/flexible AWG12-6 (Max. torque : 2N · m)

Recommended (for M5) crimp terminals.

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## 6. Inspection

Electrical, Mechanical characteristics, Appearance and Dimensions are checked by Table 2.

Table 2

Item	Inspection	Quality criterion
Varistor voltage at1mA (MOV)	full	184V-224V
Protection level $U_p$	Occasionally	According to Table 1
Response speed	Occasionally	
Insulation resistance (DC 250V)	full	
Nominal discharge current $I_n$	Occasionally	Varistor voltage and insulation resistance after the test to be applied within a standard impulse.
Appearance	full	T-120790A01
Dimension	sampling	

- 1) "Sampling Inspection" shall be conducted by using the Single, Standard Sampling Plan for Special Inspection Level S-2 and sampling number as defined by ISO-2859 and the AQL = 2.5.
- 2) "Occasionally Inspection" shall be conducted by selecting at least one piece from the first production lot when product was renewed, and material or manufacturing method of product was changed.

## 7. Packing

It packs in an individual packaging box per piece

The product name, Max. continuous operating voltage( $U_c$ ), the manufacture, and the number are displayed on the carton box.

## 8. Warranty and contents

Sankosha warrants its products for a period of one year from delivery date. If defective product claims are found to be justifiable, replacement products meeting the applicable specification will be provided in principle

## 9. Environmental Correspondence (RoHS compliant)

This product does not contain "lead", "mercurial", "hexavalent chromium", "cadmium", "PBB" (Polybrominated biphenyl), "PBDE" (Polybrominated diphenyl ether) intentionally.

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