AC Power Line Surge Protector

SV SERIES

SURGE PROTECTIVE DEVICES

OKAYA

Features

- SPD with a fail safe function to prevent short-circuit (separation of circuit and alarm contact that is easily to found the timing of changing the products)
- IEC 61643-11 (in conformity with JIS C 5381-11) certified: SV275DA-U4
- Against indirect lightning surge for three phase power supplies
- Quick response for surge
- Impulse current capacity: 8/20μs-5,000A
- Impulse test category: Class II (Type II)
- Every pathway consists of same elements. Between line and line/between lines and ground can protect as the same level.

Applications

- Power conditioner for solar photovoltaic system
- Electrical vehicle charger
- LED exterior illumination
- Tapping machine, NC machine, other machine tools
- Lithography equipment, Washing device, IC tester
- Injection molding machine, Winding machine, Surface mounter
- Vehicle air conditioner
- Servo amplifier
- Electric facility, Industrial equipment

Safety Standard		File No.*2
UL	:UL1449*1	
cUL	:C22.2 No.269.4	E322107
UL-EU	:IEC61643-11	
	:EN61643-11	

*1 Type 2CA SCCR-5kA

*2 File No. may be revised without notice. Please contact us at the time of your request for certifications.

- Model numbering system

S V ☐☐☐ **D A** – ☐ **4**

Series name

Rated Voltage

PVC wire type

Q	1 Phase
U	3 Phase
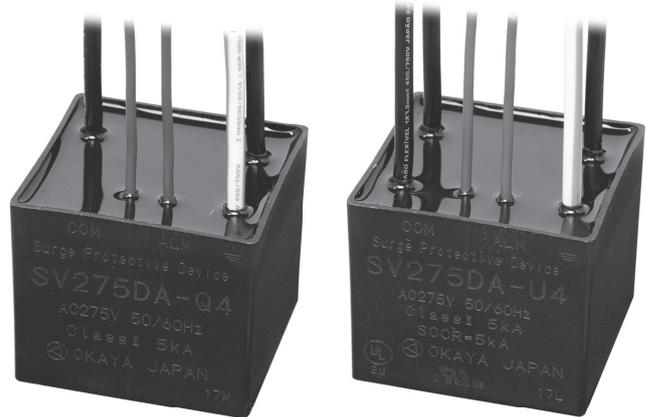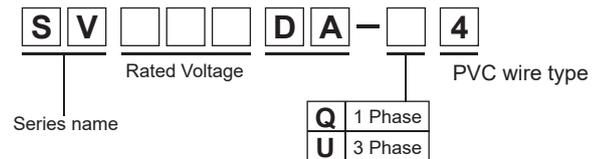
Electrical Specifications

Safety Standard	Model Number	Rated Voltage 50/60Hz		DC Operating Voltage (V) ±25%	Voltage Protection Level (V)	Nominal Discharge Current 8/20μs (A)	Max. Discharge Current 8/20μs (A)	Impulse Life Test 8/20μs-1,000A
—	SV150DA-Q4	Single Phase	AC150V	450	1,200			
ⓤ cⓊus ⓤ	SV275DA-Q4	Single Phase	AC275V	800	1,500	2,500	5,000	Approx. 500 times
	SV275DA-U4	Three Phase						
—	SV480DA-Q4	Single Phase	AC480V	1,400	2,000			
	SV480DA-U4	Three Phase						
	SV550DA-U4	Three Phase	AC550V	1,600	2,500			

Operating Temperature: -40~+70°C

● *Dimensions*

SV-□□□DA-Q4 series (Single-Phase)

Main body installation
hole φ4.2±0.5

9.5±1
5±1
42±1

Flexible cable
UL1007 AWG20

Flexible cable
UL1015 AWG16

200 +30 −0

COM   ALM   ⏚
Surge Protective Device
SV275DA-Q4
AC275V 50/60Hz
Class II 5kA
⊘ OKAYA JAPAN

37.5±1

Case
UL94 V-0

44±1

4±0.5

SV-□□□DA-U4 series (Three-Phase)

Main body installation
hole φ4.2±0.5

9.5±1
5±1
42±1

Flexible cable
UL1007 AWG20

Flexible cable
UL1015 AWG16

200 +30 −0

COM   ALM   ⏚
Surge Protective Device
SV275DA−U4
In2.5kA(IEC)/In3.0kA(UL)
MCOV/Uc=AC275V
SCCR=5kA [T2]
⊘ OKAYA JAPAN

37.5±1

Case
UL94 V-0

44±1

4±0.5
4±0.5
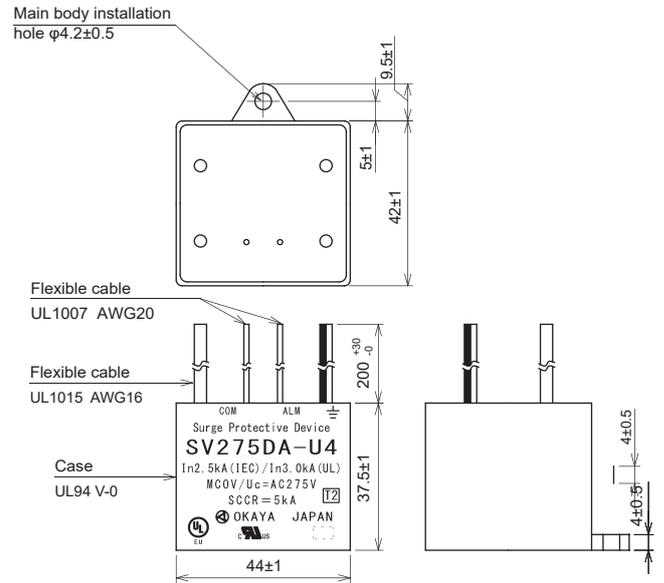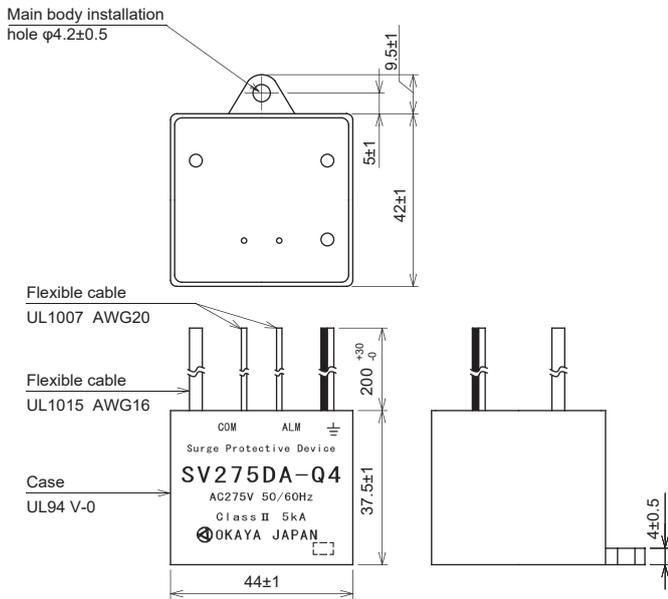
Unit: mm

● *Circuit*

SV□□□DA-Q4 series

Black   Black   Green·Yellow ⏚

○ Blue

Disconnector

MOV

GDT

○ Blue
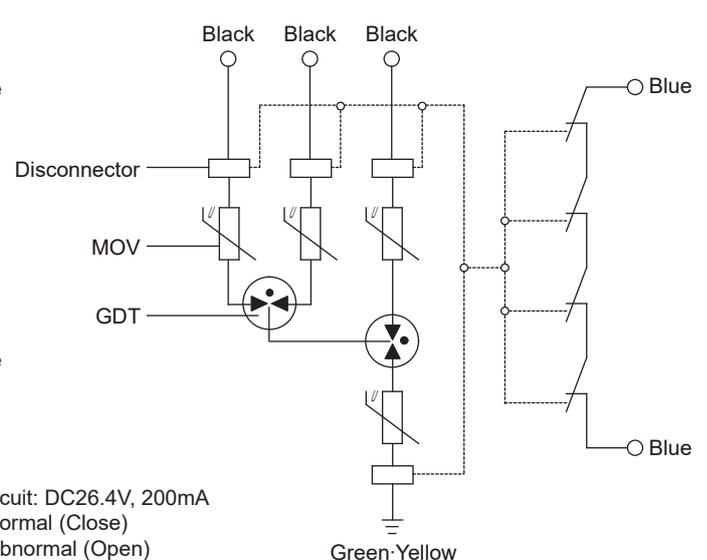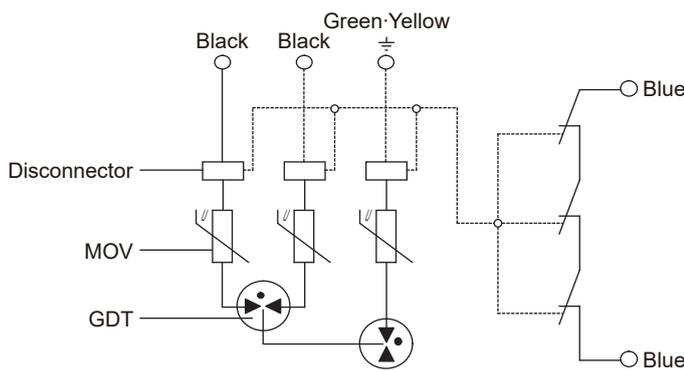
Contact: Mechanical type
Maximum rating for contact circuit: DC26.4V, 200mA
Contact switching condition: Normal (Close)
                              Abnormal (Open)

GDT: Gas-filled discharge tubes
MOV: Metal oxide Varistors

SV□□□DA-U4 series

Black   Black   Black

○ Blue

Disconnector

MOV

GDT

○ Blue

Green·Yellow

○ Blue

Flexible wires in black color can connect to each phase without any specific control.