



Устройство защиты от импульсных перенапряжений Socomes Surgys G50-PV - брошюра на продукцию. Юниджет

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/commutation/oborudovanie-dlya-elektronnoj-zashhityi/socomes-surgys-g50-pv.html>



Surge arrester PV - Type 2 "photovoltaic panels"

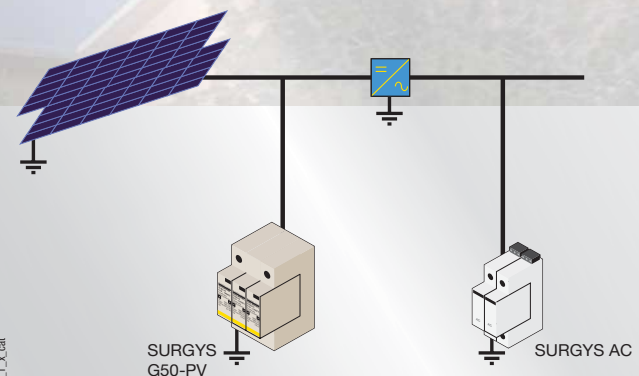
Function

SURGYS® G50-PV Surge Protective Device is designed to ensure protection of photovoltaic supply networks against transient overvoltages.

General characteristics

- Type 2 Surge Protective Device.
- Available with protection from 500 V d.c. to 1000 V d.c.
- Monobloc design.
- Common mode / differential mode protection.
- Remote signalling contact (depending on reference).
- End of service life indicator.
- Plug-in protection module.

Applications



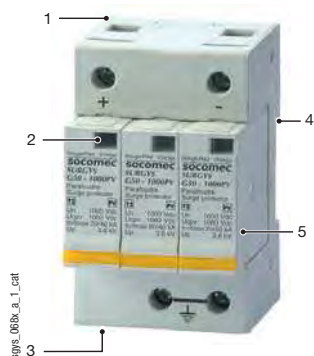
Main incoming protection in a photovoltaic network:

- SURGYS G50-PV is installed in the d.c. side, in the combiner box, close to the solar cell strings, for protecting the downstream d.c. equipment from the effects of lightning...
- SURGYS a.c. is installed in the a.c. side close to the inverter for protecting the downstream a.c. equipment from the effects of lightning.

Conformity to standards

- EN 61643-11 class 2 tests
- IEC 61643-1 class 2
- IEC 60364-7-712

Front panel



1. Monobloc base.
2. End of service life indicator.
3. Remote signalling contact.
4. DIN rail mounting.
5. Plug-in module.

Characteristics

Mains

Network type	500 V d.c. / 600 V d.c. / 800 V d.c. / 1000 V d.c.
Nominal voltage U_n	500 V d.c. / 600 V d.c. / 800 V d.c. / 1000 V d.c.
Nominal voltage U_{cgv}	530 V d.c. (500V version) / 680 V d.c. (600 V version) / 840 V d.c. (800 V version) / 1060 V d.c. (1000 V version)

Protection characteristics

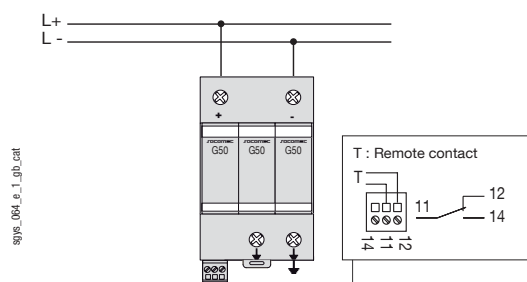
Level of protection U_p	1,8 kV (500 V) / 2,5 kV (600 V) / 3 kV (800 V) / 3,6 kV (1000 V)
Maximum discharge current (1 shock 8/20 μ s) I_{max}	40 kA
Nominal discharge current (15 shocks 8/20 μ s) I_n	20 kA
Mode of protection	common and differential

Associated characteristics

Residual current I_c	< 0,1 mA
Response time t_r	< 25 ns
Follow current I_f	none
Rated conditional short-circuit current I_{cc}	25 kA
Type of disconnection indicator	mechanical
Number of disconnection indicators	1

Connections

Common mode / differential mode protection



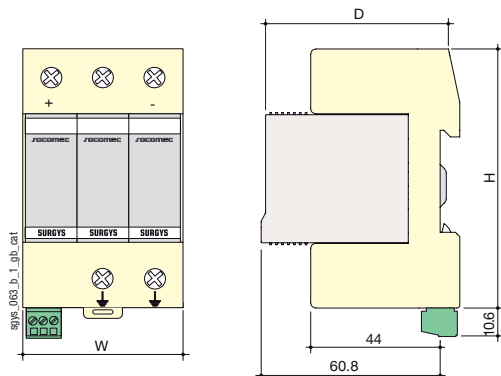
Remote signalling contact

Contact type	inverter
a.c. making capacity	0,5 A
d.c. making capacity	2 A
a.c. nominal voltage	250 V a.c.
d.c. nominal voltage	30 V d.c.
Sustained current	2 A
Connection type	Terminal block
Max. section of terminal connections	1,5 mm ²

Operating conditions

Operating temperature	-40 ... +85 °C
Storage temperature	-40 ... +85 °C

Case



Type	Modular monobloc design
Dimensions W x H x D in 2 poles	36 x 90 x 67 mm
Dimensions W x H x D in 3 poles	54 x 90 x 67 mm
Case degree of protection	IP20
Terminal block protection degree	IP20
Case material	UL94-V0 thermoplastic
Network connection section	4 ... 25 mm ²
Earth connection section	4 ... 25 mm ²

References

Network d.c. voltage	Description	No. of pole	Mode of protection	Number of side by side modules	References
500	without remote signal	2	MC ⁽¹⁾	2	4982 1500
500	with remote signal	2	MC ⁽¹⁾	2	4982 1501
600	without remote signal	2	MC ⁽¹⁾	2	4982 1530
600	with remote signal	2	MC ⁽¹⁾	2	4982 1531
800	without remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	4982 1510
800	with remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	4982 1511
1000	without remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	4982 1520
1000	with remote signal	2	MC ⁽¹⁾ / MD ⁽²⁾	3	4982 1521

Accessories

Accessories	Mode of protection	References
Spare plug-in module m-G50-500PV	MC ⁽¹⁾	4982 0509
Spare plug-in module m-G50-600PV	MC ⁽¹⁾	4982 0539
Spare plug-in module m-G50-800PV	MC ⁽¹⁾ / MD ⁽²⁾	4982 0519
Spare plug-in module m-G50-1000PV	MC ⁽¹⁾ / MD ⁽²⁾	4982 0529

(1) Common mode.

(2) Differential mode.