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GAS CAPSULES

HUBER+SUHNER gas capsule protectors are normally delivered**without** capsule. This allows the customer to select the appropriate capsule according to his application conditions, especially the maximum operation signal amplitude.

Important

All protectors of the following series are supplied with properly installed gas capsules.

Protectors with replaceable gas capsule

- series 3403 - Fine protectors
- series 3409 - high-power/low-IM protectors
- series 3410 - high-power/low-IM protectors with integrated high-pass filter (and bias-T)

The suitable replacement gas capsule is shown on the data sheet of the protector.

Protectors with fix installed gas capsule (No replacement possible)

- series 3404 – miniature gas capsule protectors
- series 3406 – Slim Line gas capsule protectors
- series 3411 – coarse coaxial data line protectors
- series 3412 – hybrid and Fine coaxial data line protectors

Non-ionized Gas Capsules

For first selection and replacement of size 6x8 mm gas capsules
Suitable for the following installed capsule holders:

H+S Type	U_{Zstat} (V)	U_{Zdyn} (V)	I_S 8/20 µ s (kA)	I_{SG} 8/20 µ s (kA)	U_{ARC} (V)	Dim. (mm)
9071.99.0547 (73_Z-0-0-547)	230 ± 15%	675	20	30	10-15	6x8
9071.99.0548 (73_Z-0-0-548)	90 ± 20%	500	20	30	10-15	6x8
9071.99.0549 (73_Z-0-0-549)	350 ± 15%	875	20	30	10-15	6x8
9071.99.0550 (73_Z-0-0-550)	470 ± 15%	1000	20	30	10-15	6x8
9071.99.0551 (73_Z-0-0-551)	600 ± 15%	1100	20	30	10-15	6x8

For first selection and replacement of size 8x8 mm gas capsules
Suitable for the following installed capsule holder:

H+S Type	U_{Zstat} (V)	U_{Zdyn} (V)	I_S 8/20 µ s (kA)	I_{SG} 8/20 µ s (kA)	U_{ARC} (V)	Dim. (mm)
9071.99.0447 (73_Z-0-0-447)	230 ± 15%	675	20	30	10-15	(8x8)*
9071.99.0448 (73_Z-0-0-448)	90 ± 20%	500	20	30	10-15	(8x8)*
9071.99.0449 (73_Z-0-0-449)	350 ± 15%	875	20	30	10-15	8x8
9071.99.0450 (73_Z-0-0-450)	470 ± 15%	1000	20	30	10-15	(8x8)*
9071.99.0451 (73_Z-0-0-451)	600 ± 15%	1100	20	30	10-15	(8x8)*

*6x8 mm gas capsules of the first table together with new capsule holder with grove

Ionized Gas Capsules - Phase out!

Alternative for first selection and replacement of size 8x8 mm gas capsules
Suitable for the following installed capsule holder:

H+S Type	U_{Zstat} (V)	U_{Zdyn} (V)	I_S 8/20 µ s (kA)	I_{SG} 8/20 µ s (kA)	U_{ARC} (V)	Dim. (mm)
9071.99.0047 (73_Z-0-0-47)	230 ± 15%	750	20	40	10 - 20	8x8
9071.99.0049 (73_Z-0-0-49)	350 ± 15%	950	20	40	10 - 20	8x8
9071.99.0050 (73_Z-0-0-50)	470 ± 15%	1400	20	40	10 - 20	8x8
9071.99.0052 (73_Z-0-0-52)	900 ± 15%	2000	20	40	10 - 20	8x8
9071.99.0053 (73_Z-0-0-53)	1200 ± 15%	2500	15	30	10 - 20	8x8
9071.99.0054 (73_Z-0-0-54)	1500 ± 15%	3500	15	30	10 - 20	8x8

Notes:
-gas capsule activity 0.2 MBq max.

Definitions

U_{Zstat}

Static spark-over voltage– voltage which ignites the capsule in the case of a voltage rise of less than 100 V/ms.

U_{Zdyn}

Dynamic spark-over voltage– voltage which ignites the capsule in the case of a voltage rise of 1 kV/ µ s.

I_S

Impulse discharge current – peak value of a defined current pulse which is allowed to be applied at least ten times at intervals of 30 seconds without causing any significant changes of the spark-over voltage specification. Values are given for current pulse shape definitions of 8/20 µ s (rise time/half-value period).

I_{SG}

Maximum pulse current – peak value of a defined single current pulse which can be conducted to ground without mechanical destruction or restriction of the protection function. For pulse shape refer to IS.

U_{ARC}

Arc voltage – increasing current drives the capsule into the arc state. The resulting voltage across the capsule is the arc voltage.

Concerning the selection of a suitable gas capsule, refer to section «Surge Protecion Gas Capsule».

REQUESTS

Do you have a question or feedback regarding this page?

