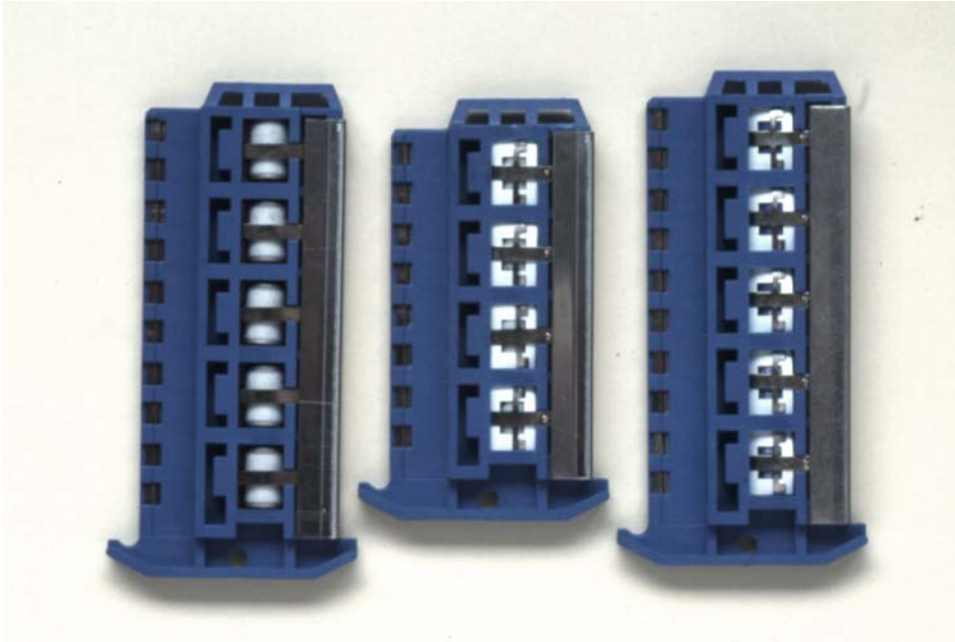


# 4 & 5-PAIR SURGE ARRESTER MAGAZINE

## SUR71/ Series



### GENERAL DESCRIPTION

The unit is supplied as a four line-pair magazine (SUR71/4) or a five line-pair magazine (SUR71/5). Each pair is fitted with either one 3-electrode or two 2-electrode gas discharge tube surge arresters. In this way advantage can be taken of the excellent transverse voltage performance of the 3-electrode arrester or the low cost of the 2-electrode type. For clear identification the magazines are manufactured in coloured plastic (glass-filled PBT – flammability rating UL94V-0).

The magazine is a plug in replacement for the disconnecting strips or test strips Trennleiste 71 and may be used wherever the Main Distribution Frame 71 is installed.

The SUR71 has been designed to accept the best modern surge arresters available, providing up-to-date protection for what has proved to be a reliable Main Distribution Frame.

As well as standard gas tube protection, advanced 3-point hybrid protection can be accommodated in the SUR71 by using semiconductor transient voltage protectors in addition to the gas discharge tubes.

Arresters can be replaced if the failsafe operates or an arrester becomes faulty. Because this occurs rarely we recommend that this is done by Surgetech.

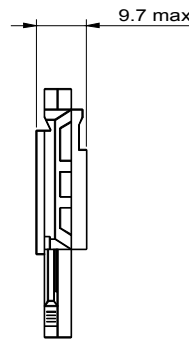
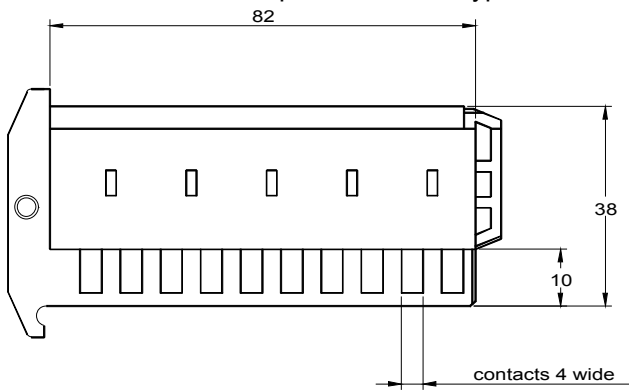
### FAILSAFE OPTION

The unique Surgetech polymer failsafe provides excellent protection against the fire risk presented by a power cross which can cause surge arresters to overheat. Unlike some solder-based failsafes which can inadvertently short-circuit, the Surgetech polymer failsafe is exceptionally stable and will not cause the device to accidentally short circuit at ambient temperatures. Typical failsafe characteristics are shown below.

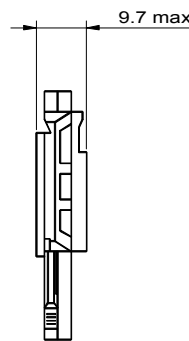
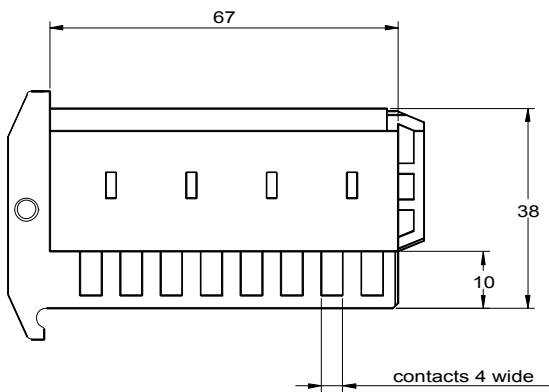
Voltage source 240V rms					
Current(A)	0.5	1	2	5	10
Time to short circuit(seconds)	144	47	19	8.5	5.5

**DIMENSIONS (in mm)**

All dimensions are compatible with the type 71 Main Frame



SUR71/5



SUR71/4

**ELECTRICAL CHARACTERISTICS**

Contact Resistance – typical readings after the following tests:-

Dry Heat	3.6mΩ.	Damp Heat	3.9mΩ.	Vibration	3.1mΩ.
Polluted Air	4.2mΩ.	Durability	4.1mΩ.		

In this case the magazine is loaded with arrester type 2026-23-A

Hybrid Version

DC Sparkover Voltage	230	V+/-20%	(i)	230	V+/- 20%
Impulse Sparkover Voltage at 1kV/μsec	650	V(max)		350	V(max)
AC Discharge Current	10	A	(ii)	10	A
Impulse Discharge Current	10	kA	(iii)	10	kA
Insulation Resistance at 100V	1000	MΩ		1000	MΩ
Capacitance – line to ground	2	pF(max)		200	pF

Notes

- (i) Measured at 500V/sec
- (ii)&(iii) CCITT K12 Blue Book Definitions



EXPERIENCE WORLDWIDE

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