

# SRG3123

Combined types 1+2+3 Lightning & Surge protector  
with signalling contact  
for three phase industrial & commercial  
applications

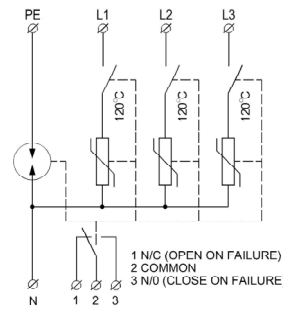
SRG3123 is a 3P+N lightning and surge arrester designed for use in TN-S / TT network systems, for installation within primary distribution boards. It is designed for universal application, for the protection of electrical appliances against impulse surge effects when connected to LV supply systems.

The device is recommended for use in the lightning protection zones concept at the boundaries of LPZ 0-1 (according to IEC / EN62305), where it provides the equi-potential bonding and discharge of both the lightning current and the switching surge, which are generated in power supply systems entering the building.

The product comprises 1 metal oxide varistor combined with a gas discharge tube. A volt free changeover contact is also provided for remote signalling of the device status.

Technical Data	
Reference standard	EN61643-11 IEC61643-1 EN62305-4
Test class according to EN61643-11 & IEC61643-1	Type 1+2+3
Max continuous operating voltage (Uc)	275V ac / 350V dc
Max. discharge current (Imax)(8/20)	50kA (L/N)
Nominal discharge current (In) (8/20)	20kA (L/N)
Lightning impulse current (I imp)(10/350)	12.5kA (L/N) 50kA (N/PE)
Total lightning current (10/350) (I total) L1+N → PE	50kA
Voltage protection level (at In) (Up)	<1.2kV
Temporary overvoltage (TOV) (Ut)	335V/5S (L/N) 1200V/0.2S (N/PE)
Response time	<25nS (L/N) <100nS (N/PE)
Max backup fuse	160A gL/gG
Short circuit withstand capability (Ip) at max back up fuse 160A gL/gG	60kA rms
Recommended backup MCB	C63A 3P 10kA
Lifetime	Min 100,000h
Min-Max conductor size	16-25mm <sup>2</sup>
Terminal tightening torque	3Nm
Mounting	35mm din rail
Operating temperature range	-40°C to +80°C
Ingress protection rating	IP20
Weight	536g
Dimension	4x 18mm module

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UNIT FOR FUTURE REFERENCE



The device must be installed by a qualified electrician in accordance with the latest edition of the IET wiring regulations for electrical installations BS7671

The surge protector must be installed at the origin of the installation.

## Important:

When conducting insulation resistance tests on the installation, remove either the plug in cartridge, or the earth cable to the device.

Alternatively conduct tests at reduced voltage (250VDC max)

Failure to do so may cause irreparable damage to the surge arrester.

## Installation in Lewden 10kA distribution boards

When installing within Lewden 10kA distribution boards, the surge arrester must be used in conjunction with a Lewden C63 3P 10kA MCB (Part number E10-3C63).

The 63A MCB should be installed on the outgoing L way located closest to the main switch, and the surge arrester fitted within a close coupled extension box (Lewden part number TPN-EXT19).

Cable lengths between the MCB, surge arrester and earth bar must be kept to absolute minimum (<500mm), using a minimum conductor size as tabled.

Failure indicator flag		Volt free signalling contact
Green	Healthy (ok)	1-2 closed / 2-3 open
Red	Failure (replace)	2-3 closed / 1-2 open

## Signalling contact (Max 1mm<sup>2</sup>)

AC: 250V / 0.5A

DC: 250V / 0.1A  
125V / 0.2A  
75V / 0.5A

Fuse F1 gG/gL	S <sub>2</sub> mm <sup>2</sup>	S <sub>PE</sub> mm <sup>2</sup>	Fuse F2 gG/gL
25	16	16	-
30	16	16	-
40	16	16	-
50	16	16	-
63	16	16	-
80	16	16	-
100	16	16	-
125	16	16	-
160	25	25	-
>160	25	25	160

