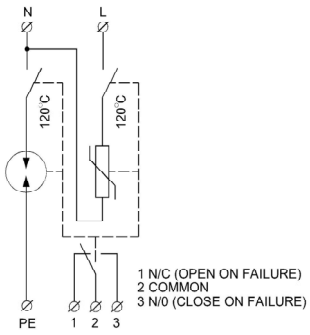
SRG1V1G

Type 2 Surge protector with signalling contact for single phase industrial & commercial applications

SRG3V1G is a 1P+N surge arrester designed for use in TN-S / TT network systems, for installation within subsidiary distribution boards or control boxes. 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 also recommended for use in the lightning protection zones concept at the boundaries of LPZ 1-2 (according to IEC 1312-1 & EN62305)
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	BS EN61643-11 IEC 61643-1
Test class according to EN61643-11 & IEC61643-1	Type 2
Nominal Voltage (Un)	230/240V ac
Max continuous operating voltage (Uc)	280V ac
Max. discharge current (Imax)(8/20)	50kA (L/N)
Nominal discharge current (In) (8/20)	20kA (L/N) 20kA (N/PE)
Lightening impulse current (I imp) (10/350)	20kA (N/PE)
Voltage protection level (at In) (Up)	<1.35kV
Temporary overvoltage (TOV)	335V/5S (L/N) 1200V+Uo/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	C32A 1P 10kA
Lifetime	Min 100,000h
Min-Max conductor size	10-35mm²
Terminal tightening torque	4Nm
Mounting	35mm din rail
Operating temperature range	-40°C to +80°C
Ingress protection rating	IP20
Weight	166g
Dimension	2x 18mm module



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 arrester must be installed on the supply side of RCCB / RCBO circuit protection

Important:

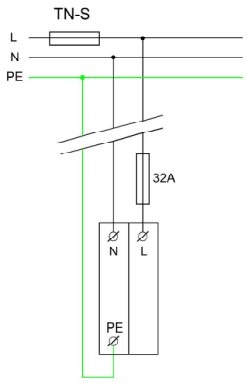
When conducting insulation resistance tests on the installation, remove either the plug in cartridge, or the earth cable to the device. Alternatively conduct tests at reduced voltage (250VDC max) Failure to do so may cause irreparable damage to the surge arrester.

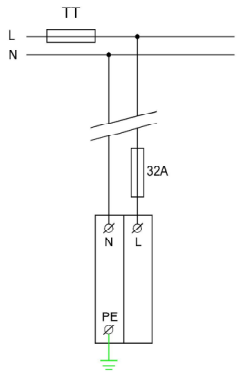
Installation in Lewden TPN distribution boards

When installing within Lewden 125A TPN distribution boards, the surge arrester must be used in conjunction with a Lewden C32 1P 10kA MCB (Part number E10-1C32).
The 32A 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 (<1 metre), using a minimum conductor size of 10mm²

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 1mm²)
AC: 250V / 0.5A
DC: 250V / 0.1A 125V / 0.2A 75V / 0.5A





THIS GUIDE MUST BE LEFT WITH THE UNIT FOR FUTURE REFERENCE

CE

Unit 4 Bradbury Drive
PO Box 12344
Braintree CM7 0JR
Tel +44 (0)1376 336200
www.lewden.com