



G: Gas tube  
 D: Clamping diode network  
 V: Varistor  
 LED: Status indicator  
 L: Inductor

**Electrical Characteristics**

SPD type		2+3
Network		24 Vac/Vdc
Nominal line voltage	Un	24 Vac/Vdc
Max. DC operating voltage	Uc	30 Vac/Vdc
Insertion loss		< 0.1 dB
Max. load current @25°C	IL	5 A
Nominal discharge current 15 x 8/20 μs impulses	In	5 kA
Max. discharge current max. withstand @ 8/20 μs by pole	Imax	10 kA
Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50μs - 8/20μs	Uoc	10 kV / 5 kA
Protection mode(s)		Common/Differential mode
Protection level @ In (8/20μs)	Up	0.22 kV
Protection level @ In (8/20 μs)	Up L/L	20 V
Protection level L/N @ In (8/20μs)	Up L/N	0.22 kV
Protection level L/PE @ In (8/20μs)	Up L/PE	0.22 kV
Nominal discharge current C2 Category	In	2.5 kA

**ELEC**

Network		Signal video
---------	--	--------------

**ELEC**

Max. DC operating voltage	Uc	6 Vdc
---------------------------	----	-------

**ELEC**

Max. frequency	f max.	100 Mhz
----------------	--------	---------

**ELEC**

Insertion loss		< 1dB
----------------	--	-------

**ELEC**

Max. load current@25°C	IL	300 mA
------------------------	----	--------

**ELEC**

Nominal discharge current 15 x 8/20 μs impulses	In	5 kA
---	----	------

**ELEC**

Max. discharge current max. withstand @ 8/20 μs by pole	Imax	10 kA
---	------	-------

**ELEC**

Protection level @ In (8/20μs)	Up	20 V
--------------------------------	----	------

**ELEC**

Network		1 pair signal 0-5 V
---------	--	---------------------

**ELEC**

Max. DC operating voltage	Uc	8 Vdc
---------------------------	----	-------

**ELEC**

Max. frequency	f max.	16 MHz
----------------	--------	--------

**ELEC**

Insertion loss		< 1dB
----------------	--	-------

**ELEC**

Max. load current@25°C	IL	300 mA
------------------------	----	--------

**ELEC**

Max. discharge current max. withstand @ 8/20 μs by pole	Imax	5 kA
---	------	------

**ELEC**

Protection level @ In (8/20μs)	Up	20 V
--------------------------------	----	------

**ELEC**

Nominal discharge current C2 Category	In	2.5 kA
---------------------------------------	----	--------

**Mechanical Characteristics**

Technology		MOV+GDT
------------	--	---------

Connection to Network		By screw terminals: 2.5mm <sup>2</sup> max.
-----------------------	--	---

MSP-VM24

Format		DIN rail or flange
Mounting		DIN rail or plate (flange)
Housing material		Anodized aluminum
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Failsafe mode		Disconnection and Power cut off
Disconnection indicator		Green LED OFF and line cut off
Voltage/operating indicator		Green led(s) on
Dimensions		See diagram
Weight		0.184 kg
<b>Disconnectors</b>		
Thermal disconnecter		Internal
<b>Standards</b>		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
<b>Part number</b>		
420402		