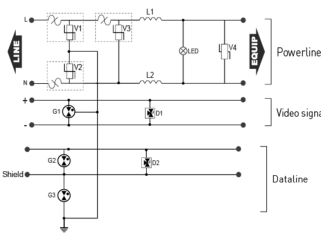
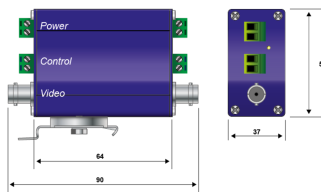


MSP-VM12



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

Electrical Characteristics		
SPD type	IEC	2+3
Network		12 Vac/Vdc
Nominal line voltage	Un	12 Vac/Vdc
Max. DC operating voltage	Uc	15 Vac/Vdc
Insertion loss		< 0.1 dB
Max. load current @25°C	IL	300 mA
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 C3 (10/1000µs), 300 applications@10 A, X-X (Line/Line)	Up	20 V
Protection level C3 (10/1000µs), 300 applications@10 A, X-C (Line/Earth)	Up	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		
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		
Nominal discharge current 15 x 8/20 µs impulses	In	2.5 kA
ELEC		
Max. discharge current max. withstand @ 8/20 µs by pole	Imax	5 kA
ELEC		
Protection level @ In (8/20µs)	Up	20 V
Mechanical Characteristics		
Technology		MOV+GDT
Connection to Network		By screw terminals: 2.5-25mm²
Format		DIN rail or flange
Mounting		DIN rail or plate (flange)

MSP-VM12

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
<b>Disconnectors</b>		
Thermal disconnecter		Internal
<b>Standards</b>		
Standards compliance		IEC 61643-11 / EN 61643-11 / UL1449 ed.5
<b>Part number</b>		
420403		