



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

Electrical Characteristics

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|---|---------|--------------------------|
| SPD type | | 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 | 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

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| Network | | Signal video |
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| Max. DC operating voltage | Uc | 6 Vdc |
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| Max. frequency | f max. | 100 Mhz |
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| Insertion loss | | < 1dB |
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| Max. load current@25°C | IL | 300 mA |
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| Nominal discharge current 15 x 8/20 μs impulses | In | 5 kA |
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| Max. discharge current max. withstand @ 8/20 μs by pole | Imax | 10 kA |
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| Protection level @ In (8/20μs) | Up | 20 V |
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| Network | | 1 pair signal 0-5 V |
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| Max. DC operating voltage | Uc | 8 Vdc |
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| Max. frequency | f max. | 16 Mhz |
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| Insertion loss | | < 1dB |
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| Max. load current@25°C | IL | 300 mA |
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| Nominal discharge current 15 x 8/20 μs impulses | In | 2.5 kA |
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| Max. discharge current max. withstand @ 8/20 μs by pole | Imax | 5 kA |
|---|------|------|

ELEC

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

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| Technology | | MOV+GDT |
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| Connection to Network | | By screw terminals: 2.5-25mm² |
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MSP-VM12

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