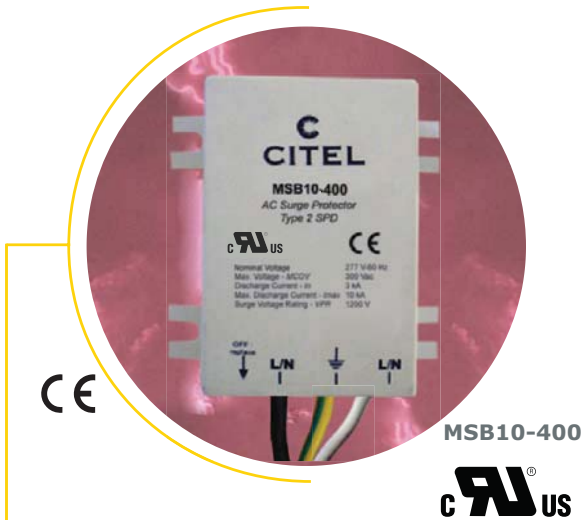




Imax
18kA

Hard-wire AC Power Surge Protector

MSB10-120, MSB10-400, MSB10-480



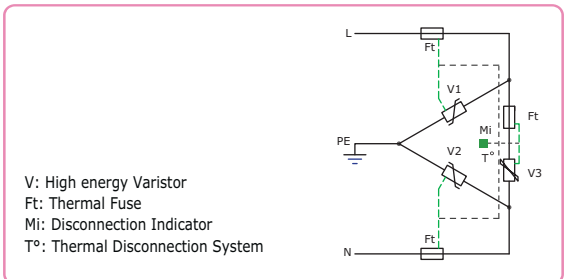
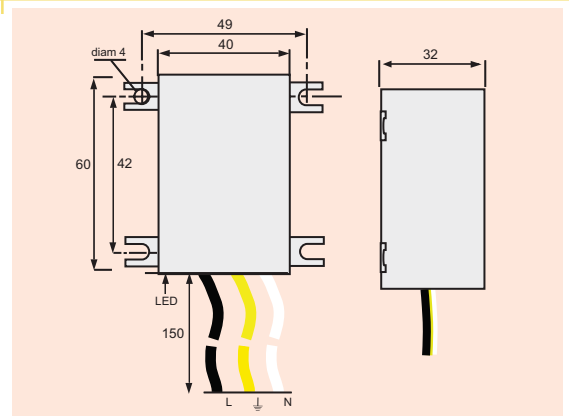
MSB10-400



The MSB10 is a general duty AC Surge Protection Device (SPD) for high risk electrical and electronic applications. The MSB10- provides protection against the direct and indirect effects of lightning and is particularly useful where space is limited. This device is designed for single and two phase applications up to 480Vac with a surge current handling of 18kA 8/20us. The MSB10 offers, very low leakage current to ground, produces no follow on current and has a low residual clamp voltage.

The MSB10 provides wire connection leads for parallel wiring, mounting flange to facilitate easy surface installation, high quality metal oxide varistors with integral thermal disconnection compliant to UL-60691 and real-time visual fault indication.

Dimensions and Diagram (in mm)



V: High energy Varistor
Ft: Thermal Fuse
Mi: Disconnection Indicator
T°: Thermal Disconnection System

Characteristics

CITEL Part Number	MSB10-120	MSB10-400	MSB10-480
AC Network	120V	240V 277V	347V 480V
Connection Mode	1 Phase	1 Phase	1 Phase
UL Max. Operating Voltage (MCOV)	180Vac	305Vac	550Vac
TOV Withstand (UT)	180Vac	305Vac	550Vac
IEC/UL Nominal Discharge Current (In) 15 impulses 8/20 μ s	3kA	3kA	3kA
Max. Discharge Current (Imax) 1 impulse 8/20 μ s	18kA	18kA	18kA
ANSI/IEEE C62.41-2002 20kV 1.2/50 μ s, 10kA 8/20 μ s	Yes	Yes	Yes
UL Voltage Protection Rating (VPR)	600V	1000V	1800V
Protection Level at In (Up)	0.6kV	1.3kV	2.5kV
UL Short-Circuit Current Rating (SCCR)	25kAIC	25kAIC	25kAIC
Leakage Current at MCOV (Ic)	<1mA		
Follow Current (If)	none		
AC System	Single Phase		
Thermal Disconnect	UL 60691		
Overcurrent Protection	Time Delay - 250A Max.		
Dimensions	60 x 49 x 32 (in mm)		
Connection	by screw terminals, #4 AWG Max.		
Remote Signal Indicator	250Vac Max, 2A		
Mounting	Mounting Flange		
Operating Temp	-50°C to +85°C		
Operating Altitude	13,000 ft (4,000m)		
Relative Humidity	5 to 95% non-condensing, up to 100% external		
Enclosure Material	Thermoplastic UL94-5A		
Environmental Rating	IP66		
Weight	2.8 oz		
Standards Compliance			
IEC 61643-1 - INTERNATIONAL	Class I and II		
EN 61643-11 - EUROPE	Class I and II		
NF EN 61643-11 - FRANCE	Class I and II		
UL1449 3rd Edition - USA	Type 4, Type 2 Location		
UL1449 3rd Edition - CANADA	Type 4, Type 2 Location		
CSA C22.2 No. 8-M1986	Class 9091 32, Class 9091 92		
RoHS	Directive 2002/95/EC		