



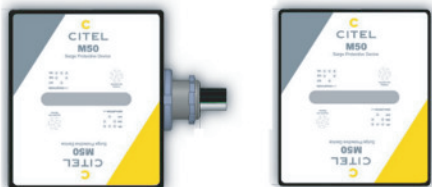
CITEL

N.221104b

INSTALLATION INSTRUCTIONS - NOTICE D'INSTALLATION
NOTICIA DE INSTALACIÓN - INSTALLATIONSHINWEISE
ISTRUZIONI PER L'INSTALLAZIONE
INSTRUÇÕES DE INSTALCAÇÃO - MONTÁŽNÍ NÁVOD
РУКОВОДСТВО ПО МОНТАЖУ - 安装指导书

AC surge protector - Parafoudre Basse Tension
Protectiones Baja Tension
Überspannungsschutz für Niederspannungsnetze
Scaricatori da sovratensioni per rete di energia
Protetor de Surto CA. - Svodiče přepětí pro AC
Устройство защиты от импульсных перенапряжений, AC - 低压浪涌保护器

M50 Series



Technical Data

	P/N															
	M50(F)-120Y-A*	M50(F)-120T-A*	M50(F)-120S-A*	M50(F)-120Y-B*	M50(F)-120T-B*	M50(F)-120S-B*	M50(F)-240D-A*	M50(F)-240D-B*	M50(F)-230S-A*	M50(F)-230S-B*	M50(F)-240T-A*	M50(F)-240T-B*	M50(F)-277Y-A*	M50(F)-277Y-B*	M50(F)-480D-A*	M50(F)-480D-B*
2000 m max. 6500 ft max.																
-40/+185°C max. -40/+85°F max.																
IP66																
Characteristics																
Single phase			●			●			●	●						
Split phase		●			●						●	●				
Wye	●			●									●	●		●
Delta							●	●							●	●
Max. Discharge Current by mode (Imax)	50 kA															
Nominal Discharge Current by mode (In)	20 kA															
MCOV L-N (Vac)	140	140	140	140	140	140	N/A	N/A	270	270	280	280	320	320	N/A	N/A
MCOV L-L (Vac)	240	280	N/A	240	280	N/A	280	280	N/A	N/A	480	480	560	560	560	690

Note:

A: for the side nipple

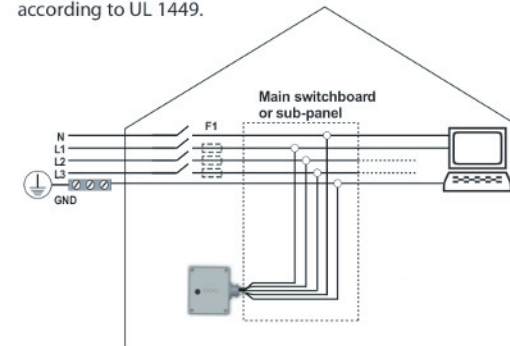
B: for the nipple in the back

* M50F : contains a condenser.

* Part numbers ending in -RA have remote contacts. See wiring.

Installation (Fig. 1)

Fusing not required but only recommended when SPD installed according to UL 1449.



Remote Contact Wiring/Status- If equipped (-RA)



1. SPD de-energized
2. SPD energized, (LEDs Green)
3. NC-COM (Red-Black)
4. NO-COM (White-Black)

Connection: #24-16 AWG (0.2mm - 1.5mm²)
Rating: 0.5A, 125VAC, 1A 30VDC

1. SPD fault (LED off)
2. NC-COM (Red-Black)
3. NO-COM (White-Black)

Installation

Installation

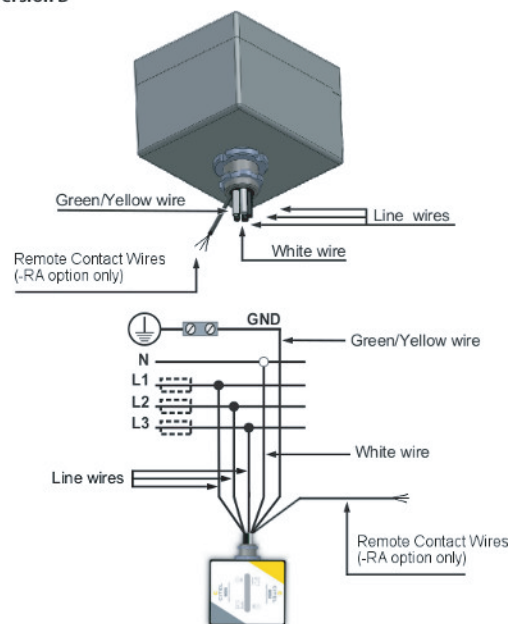
1. Turn off all power supplying this equipment before working on or inside equipment. See Installation - Figure 1.
2. Confirm M50 device is rated for your system by comparing voltage measurements to the Line Voltage on the product label.
3. Install in accordance with article 285 of the National Electric Code.
4. Confirm that the electrical terminals used to attach this device are identified for these conductors.
5. Twist conductors 1/2 turn or more for every 12 inches of length.
6. Keep conductor length as short as possible with no sharp bends.
7. Do not loop or coil wires.
8. Ensure a high quality ground is in place.

Diagnostic Operation

- LED ON = Normal operation
- LED OFF (one or more) = Fault, check phase voltage and connections. If OK, replace unit.
- Audible Alarm ON = Fault, check phase

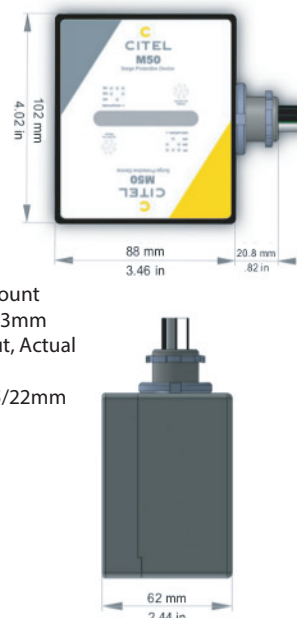
Wiring

Version B



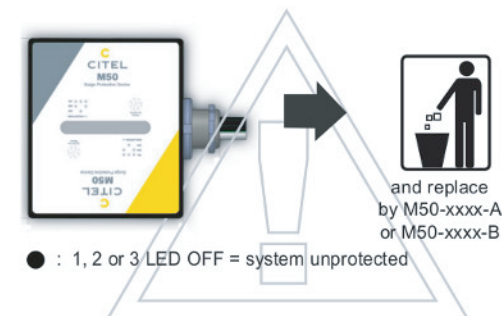
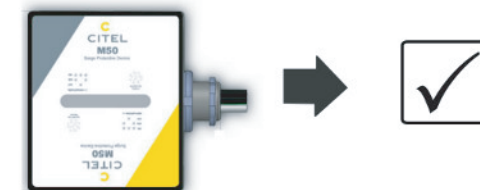
Dimensions (mm/in)

Version A



Maintenance

☀ : 3 LED ON = system protected



● : 1, 2 or 3 LED OFF = system unprotected

