

SMI Appliance and EV Charging Disconnect

Product Description

An appliance/EV charging disconnect (A/EVD) is a disconnect located between a load center (distribution panel) and appliance or EV charging unit. SMI's A/EVD provides an installer or repair personnel with a visible disconnecting means when performing maintenance. The A/EVD are also known as disconnects or pullouts.

Unfused pullout and low-profile molded case switch devices provide personnel with a visible ON-OFF disconnecting means. While unfused pullout units also perform this function, they also provide an additional level of protection for the appliance/EV charger. Unfused devices are of a pullout design, where the user physically removes or "pulls out" a tab to break the electrical connection. A molded case switch is similar to a light switch where the user "switches" the unit to the indicated ON-OFF position.

Unfused Pullouts

ON/OFF control provided by a pullout handle

Pullout handle can be conveniently stored in the compartment in the OFF position, helping to prevent the handle from being misplaced

Protective shield cannot be removed until the pullout handle is removed, disconnecting the power

Molded Case Switch

Rugged molded case construction.

Application Description

The most widely used application for A/EVDs is for residential and light commercial, electric vehicle charging units, appliances, heat and air conditioning units. An A/EVD is installed indoors or outdoors, in sight of the appliance, electric vehicle charging unit. A/EVDs are also found in use with heat pumps, swimming pools, spas, whirlpools and pump houses, and meet 2008 NEC Article 422.31 (B) requirements for servicing electric water heaters. Metallic enclosures are galvanized steel and are installed in various locations.

Features, Benefits and Functions

- Low-profile and compact design allows for tight space and shallow installation applications
- Single-phase or dual-phase, 240 Vac, three or four wire configuration

- Isolated neutral (removable) and grounding bars
- UL 50 Ed. 3-2020 indoor or outdoor metallic enclosure (top cover attachment required for outdoor rating)
- Easy-to-remove high strength protective shield for easier wiring and mounting
- Easy-to-remove front cover (no screws or fasteners to remove)
- ¾" knockout on the back, ¾" bottom of unit
- Copper and aluminum rated line and load lugs that are easily accessible
- Ample wiring space for mounting (single keyhole, two- or three-point mounting)
- Unfused devices are service entrance rated
- Rated 240V, 60 AMP, 2 HP
- Pad lockable door provision for safety and reduction of tampering
- Metallic enclosures are bottom entry and exit only

All SMI Appliance and EV Charging Disconnect devices must be installed by a qualified individual.

<p>CATALOG NO. SMI42477</p>	<p>*RAIN PROOF PULL-UP SWITCH* 60 AMPS 240 VOLTS VAC, 2 HP, 1 PHASE, 4 WIRE 2 POLE TYPE 3R RAINPROOF U.S. PATENT PENDING</p>	<p>LUG TIGHTENING TORQUE : 41-45 LB.IN(LINE/LOAD TERMINAL) 32-35 LB.IN(GROUNDING TERMINAL)</p>	<p>SMI</p>
<p>CAUTION: LIVE PARTS ARE EXPOSED WITH THIS SHIELD REMOVED. REPLACE AFTER WORKING INSIDE. USE 60/75°C ALUMINUM OR COPPER WIRE. USE ONLY 60 DEG.C/75 DEG.C CONDUCTORS ON ALLFIELD INSTALLED LINE AND LOAD TERMINATIONS.</p>		<p>THIS SWITCH IS SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN 10,000 AMPERES,RMS SYMMETRICAL, 240V MAXIMUM. WHEN PROTECTED BY FUSES OR BREAKERS RATED 60 AMPERES OR LESS.</p>	
<p>USE CCA/CU/AL WIRE RAINPROOF TYPE 3R MODEL SMI42477</p>		<div data-bbox="820 1871 971 2003" data-label="Image"> </div> <p>DANGER HAZARD OF ELECTRICAL SHOCK OR BURN. TURN OFF POWER BEFORE</p>	

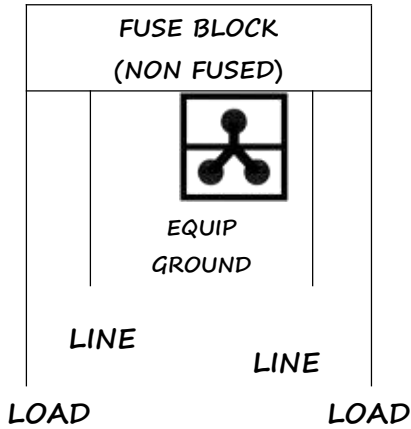
LOCATION: DRY, DAMP, *WET – *When top cover is attached

WORKING INSIDE THIS EQUIPMENT
CAUTION: DOES NOT CONTAIN
FUSES

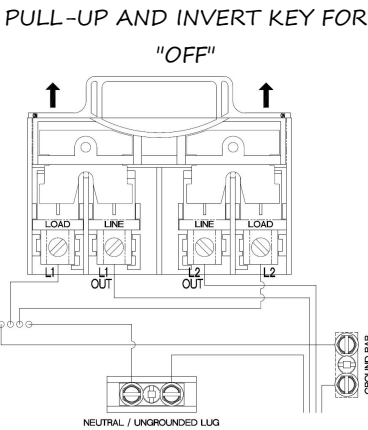


ENCLOSED
PULL-UP SWITCH

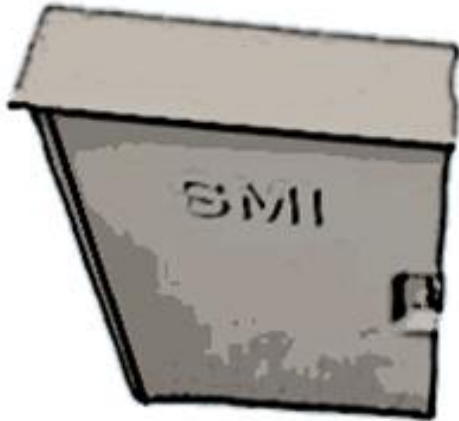
P/N #:
SMI42477



INVERT PULL-UP FOR
“OFF”
CAUTION WHEN
PULLING KEY UP:



Weatherproof Cap Installed
(Outdoor Rating)



Without Weatherproof Cap Installed
(Indoor / Damp Rating)



Neutral Lug is *OPTIONAL* and can be slid off (see below).



Neutral Lug is optional
and can be removed.

