

LOW VOLTAGE CUT OUT FUSE SWITCH DISCONNECTOR 100A TPM-COI00



PROTECTION
DEVICE



ISOLATION
CONNECTION



QUALITY
PRODUCT

Special Features

Compact
Design

Easy
Installation

IP 20
Protection

Promote
visual check
fuse indicator

Galvanic
corrosion
resistance

Overview

- ❑ The Low Voltage Cut-Out Fuse Switch Disconnecter 100A was designed to meet the customer's requirement of migrating from the obsolete service cut-out with BS barrel fuse to a fuse switch disconnecter designed to incorporate the DIN NH 00/000 fuse.
- ❑ It is used for connection and isolation of incoming electricity supply to customer's premises. It is also a protection device using the fuse to protect components, equipment and people from risks of fire and shock.
- ❑ It is installed on the customer's meter board in either single-, double- or triple-phase. It is designed to operate on full load with the use of DIN type NH00/000 fuse of either 32A or 63A.

Application

Protection and Isolation

- Protection of consumer services.
- Connection or termination of electricity supply to consumer.

Operation

The Low Voltage Cut-Out Fuse Switch Disconnecter 100A has been equipped with handle for easy operation during opening, closing and removing the fuses. A translucent window is provided for visual check of fuse indicator on its status.

Mounting

The Low Voltage Cut-Out Fuse Switch Disconnecter 100A can be mounted on the meter board for single-, double- or three-phase connection. Two fixing screws are provided for mounting it.

Tests

The Low Voltage Cut-Out Fuse Switch Disconnecter 100A has been extensively tested according to IEC 60947-1:2004, IEC 60947-3:2005, IEC 60269-1:2006, IEC 60269-2-1:2002, IEC 60068-2-5 and IEC 60068-2-30

Construction



The housing consists of a fuse base and a fuse carrier.

The housing parts are fully insulated and are made of impact resistant and weather resistant glass-fiber reinforced polyamide compound with flame-retardant polymeric insulating material.

The fuse carrier is designed to hold the mounting suitable for size NH00/000 DIN fuse. It is equipped with handle for easy operation during inserting and drawing out of the fuses. A translucent window is incorporated for easy visual check of the fuses indicator.

The fuse base is designed for a single incoming and single outgoing terminal. It has a hole slot of 9mm diameter on at each end of the fuse base.

The design of the incoming and outgoing terminals is according to indirect pressure type with 2 fixing screws to fasten the pressure plate to the terminals and grip the conductor. It accommodates PVC/ABC Aluminium conductor from size 6mm² to 35mm² for incoming and copper conductor for outgoing.

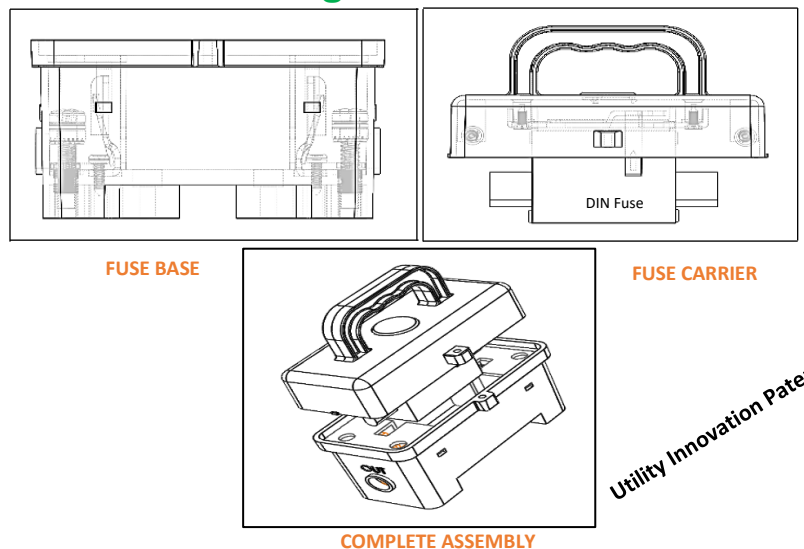
The incoming terminal and pressure plate are made of silver-plated aluminium alloy (to prevent galvanic corrosion) while the outgoing terminal and pressure plate are made of non-plated copper alloy. The fuseclip, designed to grip the fuse blade, is made of silver-plated copper for incoming and non-plated copper for outgoing.

It is fully insulated with IP cover designed for protection to prevent energized parts from being accessible during and after installation

Technical Data

Rating	Value
Rated Operational Voltage (V)	230V
Rated Insulation Voltage (V)	1000V
Rated Frequency (Hz)	50Hz
Rated Operational Current (A)	100A
Rated Short Time Withstand Current (kA)	5kA, 1s
Rated Short Circuit Making Capacity (kA)	1.2kA
Rated Breaking Current at 0.65pF	300A
Protection	IP20
Termination Slot	6mm-35mm
Size	L:117mm W:50mm

Schematic Diagram



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