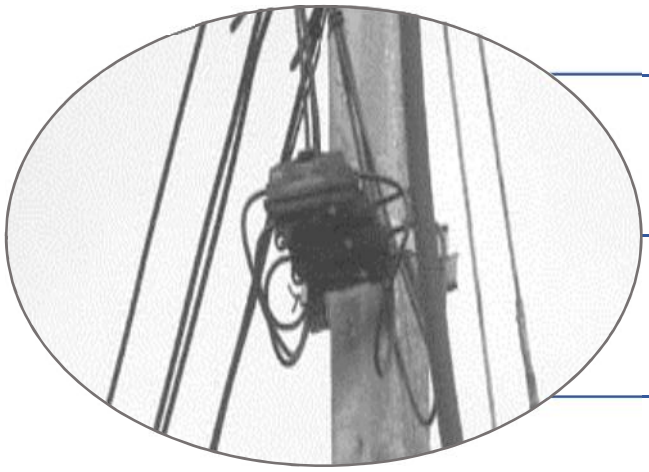
LOW VOLTAGE
FUSE SWITCH DISCONNECTOR 160A
TPM-NS160



PROTECTION DEVICE

ISOLATION CONNECTION

QUALITY PRODUCT

Special Features

Outdoor Installation	Compact Design	Easy Installation	Easy to remove and insert fuse	Can be mounted for single,double and triple phase application

Overview

The fuse switch disconnector is a protective switch for insulated and non-insulated overhead lines and serves to protect and disconnect a network section or consumer and also be used for short circuiting and earthing. It is used in low voltage ABC system or open wire overhead line and suitable for mounting directly to poles or building. It is designed for switching to be carried out on full load with the use of DIN fuse up to the rated current of 160Ampere for type NH00/000.

Customer's requirements on the one hand and a flexible solution for all the different overhead line systems on the other hand have led to the creation of a modular design. With this design we are able to assemble switches for single, double and triple phases. The design of the fuse switch disconnector takes into account the need for easy operation, a minimum of parts and high corrosion resistance.

Application

Protection and Isolation

- Protection of consumer services
- Protection between bare conductors and insulated overhead cables or underground cables.
- Connection and disconnection of network section
- Connection of overhead to underground cables

Operation

A special feature of the fuse switch disconnector is that a standard type hook stick may be used for opening, closing and removing the lower housing.

Mounting

Fuse switch disconnector can be mounted for single, double and triple phase via an L-bracket or a steel strap which can be used to mount it individually on pole.

Tests

The fuse switch disconnector has been extensively tested according to IEC 947-1: 1996, IEC 60947-3: 1998, IEC 60947-3: 2001-2005, IEC 68-2-5:1975 and IEC 68-2-9:1975

Construction

It has two parts which are upper and lower housing. The body and the flap are fully insulated and are made of impact resistant, weather resistant glass-fiber reinforced polyamide compound which has been successfully used for many years.

The bodies can be linked on the mounting steel strap or 'L' bracket in any arrangement. The lower housing is hinged for easy opening and closing by hand or Hook stick via 20mm hole on flap.

The terminal clamps are fitted in the body and the bolt for clamping can be screwed from underneath. This is an advantage for the linesman enabling him to use a lower position for installation.

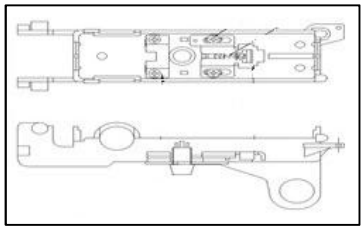
The fuse contacts are clamped together with the conductor inside the terminals. The contacts and all the conductor touching elements are made of copper and aluminum alloy with tin plating. Due to this copper or aluminum conductors can be used and this solution is highly corrosion resistant.

The cable terminals are tin plated aluminum alloy clamp type terminals and designed for copper or aluminum compacted cable size 16-95mm². Suitable for any rating DIN fuse for NH00/000 size up to100A. Built-in red neon indicator will light up whenever the fuse fails.

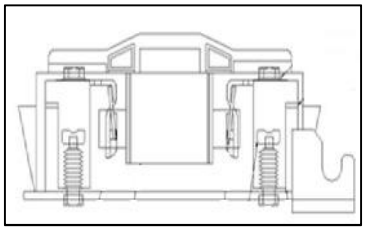
Technical Data

Rating	Value
Rated Operational Voltage (V)	415V
Rated Insulation Voltage (V)	1000V
Rated Frequency (Hz)	50Hz
Rated Operational Current (A)	160A
Rated Short Time Withstand Current (kA)	5kA, 1s
Rated Impulse Withstand Voltage (kV)	15kV
Rated Shor Circuit Making Capacity (kA)	1.2kA
Rated Breaking Current at 0.65pF	480A
Termination slot	16mm to 95mm
Size	L: 189mm W: 54mm

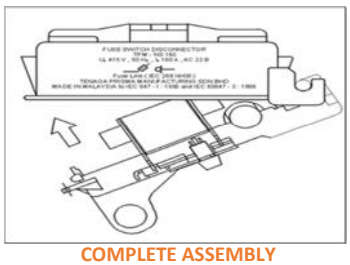
Schematic Diagram



UPPER HOUSING



LOWER HOUSING



COMPLETE ASSEMBLY

For more information, Please contact:

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