

NHRT41
Fuse-Switch Disconnector

1. Application

NHRT41 fuse switch disconnector is applied in the circuit of rated current frequency of 50Hz, rated current from160A to 630A and rated voltage of AC 800V and below.

NHRT41 Series fuse-switch disconnectors are widely applied in substation, feeder pillar and other panels; They are rarely manually operated multipolar fuse combination switches.

Break or switch off on load and provide safely isolation and protection against overcurrent by fuses.

2. Type designation

N HRT 41 - □ / □ □

- L: three phases breaking and making simultaneously; Blank: independent operation phase to phase
- No. of poles
- Conventional thermal current
- Series No.
- Fuse-switch disconnector
- Company code

Remark: the fuse is not standard accessory and should purchase separately

3. Type designation

Operation condition and installation:

Temperature between +40℃ and -5℃

Altitude of the installation should be less than 2000m

Temperature(Humidity): When the max temperature reaches +40℃, the relative humidity of the air should not exceed 50%;

At lower temperature, the relative humidity is allowed to be higher, for examples it can reach 90% at the temperature of +20℃ .

The pollution level of ambient atmospheric environment is class 3.

Switch should be installed on the location without incursion of rain or snow, explosion hazard medium and as well as prominent shake, attack and vibration.

4. Primary Parameter

Main Parameters and technical performance

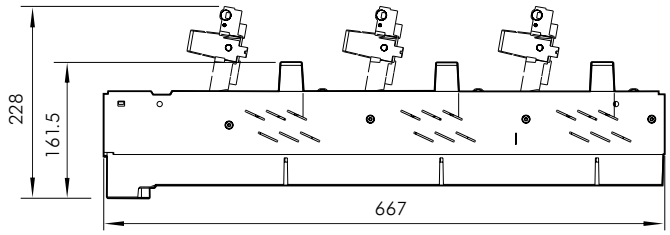
Type	NHRT41-160/3	NHRT41-250/3	NHRT41-400/3	NHRT41-630/3
Ue	AC500V	AC800V	AC800V	AC800V
Ie	160A	250A	400A	630A
Hz	50	50	50	50
Ui	AC800V	AC1000V	AC1000V	AC1000V
Uimp	6kV	12kV	12kV	12kV
Utilization Category	AC-22B	AC-22B	AC-22B	AC-22B
NT/NH fuse size	00	1	2	3

5. Design features

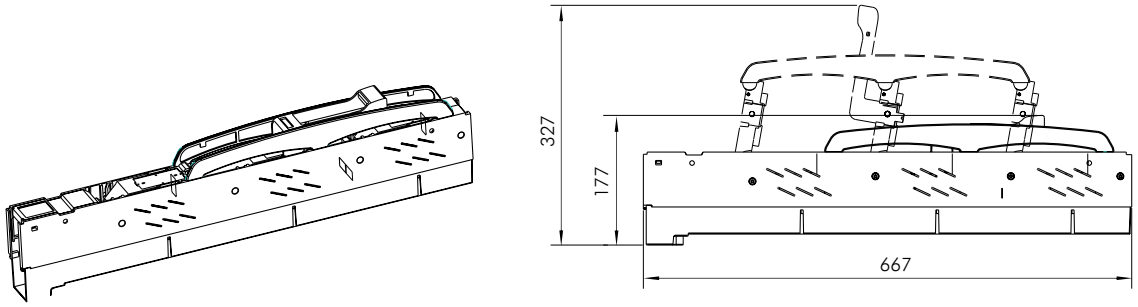
- NHRT41 is three phases fuse-switch disconnector which applied in the main busbar. Three single phase fuse in linked vertically which incoming is linked with busbar and outgoing linked with cable.
- NHRT41 fuse-switch disconnector adopts the strong unsaturated polyester fiberglass reinforced plastic for metal carrier. Silver coated contactor is linked with inner busbar to ensure low loss, high current carrying capacity and low temperature rise.
- NHRT41 fuse-switch disconnector offers two installation methods: bolt-fixing and hook-fixing types. For the hook-fixing type, the busbar requires a punch-free design with both flexibility and stability.
- Suitable operation window, with high availability for the fuse monitoring
- Voltage inspection through knife hole
- Non-locking fuse design which is easy for the fuse replacement and installation
- The safety device in the busbar to prevent the users from touching conductors

6. Overall and mounting dimensions

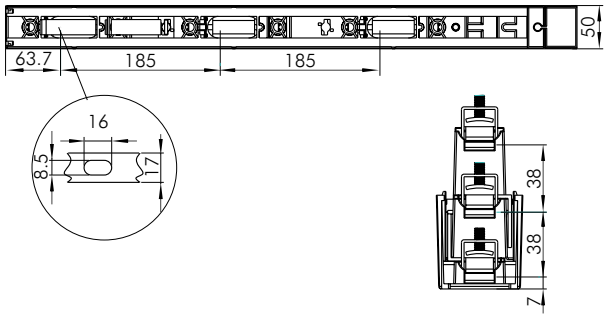
NHRT41-160/3

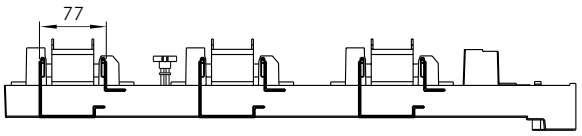


NHRT41-160/3L

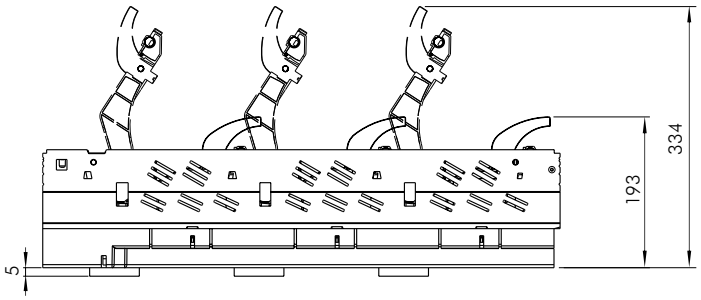


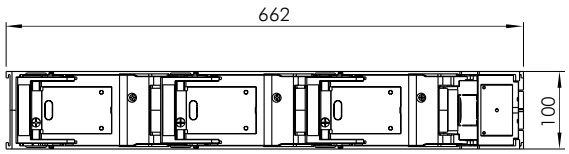
NHRT41-160/3、NHRT41-160/3L Base



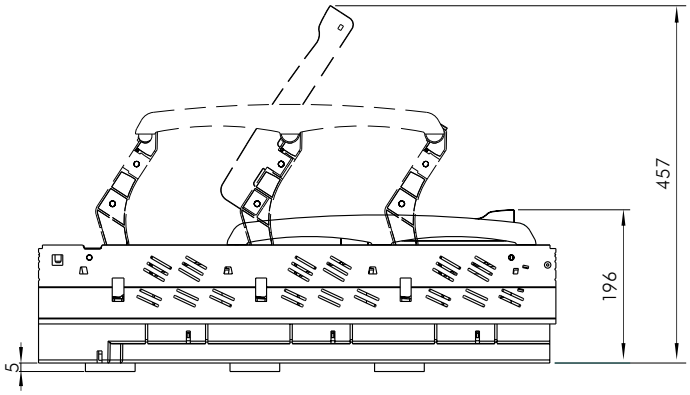


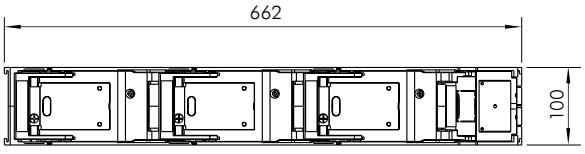
NHRT41-250 ~ 630/3



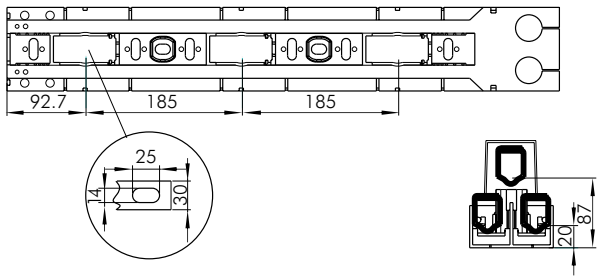


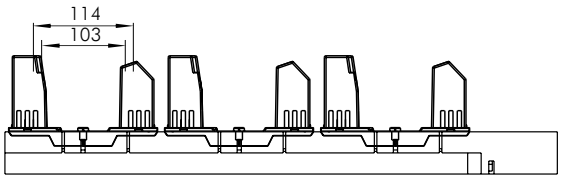
NHRT41-250 ~ 630/3L





NHRT41-250 ~ 400/3 、NHRT41-250 ~ 400/3LBase





NHRT41-630/3 、NHRT41-630/3LBase

