

YCH5 series


Vertical fuse-switch disconnecter

OPERATION INSTRUCTION

Standard: IEC 60947-3

CNC

Deliver
Power For Better Life

-  Before installing and using this product, please read this manual carefully and pay more attention to safety.

YCH5 series

Vertical fuse-switch disconnecter

1 Operating conditions

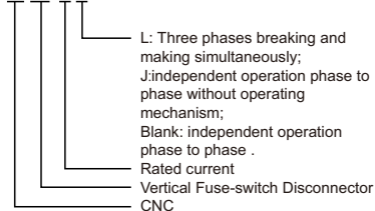
YCH5 series vertical fuse-switch disconnecter is applicable in the circuit of rated voltage AC690v and below, rated current AC 160A-630A, rated frequency of 50Hz.YCH5 series are infrequently manually operated multipolar fuse combination switches.

They break or switch off on load and provide safely isolation and protection against overcurrent for any voltage electrical circuit.

Standard: IEC 60947-3.

2 Type designation

Y C H 5 □ □



2 Operating conditions

2.1 Ambient temperature $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$

2.2 Altitude: 2000m.

2.3 Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of $+40^{\circ}\text{C}$. For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is $+20^{\circ}\text{C}$, special measures should be taken to occurrence of condensation.

2.4 The installation position should be vertical. The inclination in all directions shall not exceed $\pm 22.5^{\circ}$.

2.5 Installed in areas free from shock, vibration and rain.

2.6 Pollution grade: 3.

2.7 Installation category: III.

·Normal storage and transport conditions

(1) Temperature: $-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$, can be up to 70°C for short time (24h)

(2) Relative humidity: $\leq 95\%$

(3) Products should be handled with care and without inversion in transportation to avoid strong collision

(4) Products should not be encroached by rain and snow when carrying and storage

3 Technical Data

Parameter	YCH5-160	YCH5-250	YCH5-400	YCH5-630
Rated thermal current I _{th} , A	160	250	400	630
Maximum rated voltage U _e , V	690			
Frequency, Hz	50/60			
B Isolation voltage U _i , V	1000			
Maximum pulse voltage U _{IMP} , kV	8	12	12	12
Maximum allowable short-circuit current circuits with fuses, kA	50	100	100	100
Fuse Dissipation Power for 1 phase, W	12	23	34	48
Whether there is arc extinguishing chamber	Нет No	Да Yes	Да Yes	Да Yes
Conductor fasteners	M8	M12	M12	M12
Cross section of conductors, mm ²	70	120	240	300
Mechanical life	1600	1600	800	800
Protection grade	IP30			
Number of poles	3			

6 Operation

6.1 The product has a self-locking device, which must be pressed when unlocking.

6.2 When the thrust is in the unlocked state, the working handle can be extended through the thrust at the same time, that is, the three-phase handle can be extended together.

6.3 The fuse is under the cover. The cover has a snap that must be pulled to remove the fuse.

6.4, After pulling the operating handle, you can see the arc extinguishing cover and the buckle of the base. According to the buckle "open/lock" mark, the shell and the base can be separated by rotating 90° correspondingly.

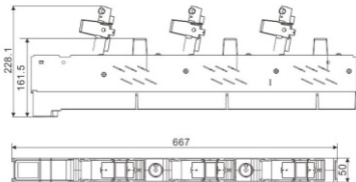
6.5, There are card slots on both sides of the arc chute, pay attention when removing it. The two ends of the arc chute have different appearances, and the lower end faces the outlet of the product. Installing the arc chute in the opposite direction will affect the installation of the entire enclosure.

6.6 The switch should be installed vertically.

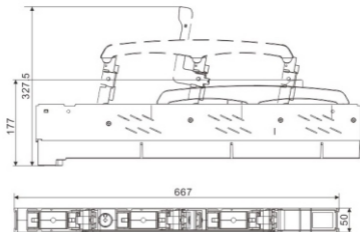
7 Overall and mounting dimensions(mm)

Model	Bus bar(mm)	Fuse link	Note
YCH5-160	185	NT00	Independent operation phase to phase
YCH5-160L	185	NT00	Three phases breaking and making simultaneously

YCH5-160



YCH5-160L

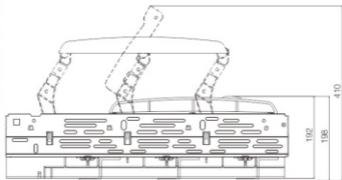


The base of YCH5-160

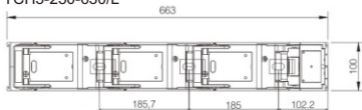


Model	Bus bar(mm)	Fuse link	Note
YCH5-250L	185	NH1	Three phases breaking and making simultaneously
YCH5-400L	185	NH2	
YCH5-630L	185	NH3	
YCH5-250	185	NH1	Independent operation phase to phase
YCH5-400	185	NH2	
YCH5-630	185	NH3	

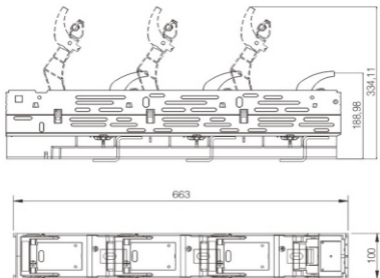
YCH5-250-630/L



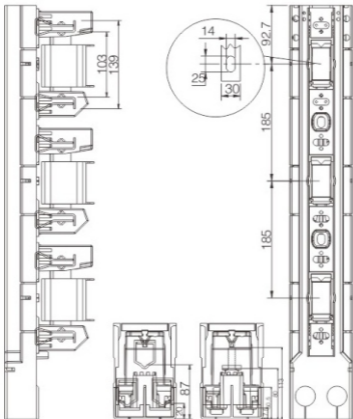
YCH5-250-630/L



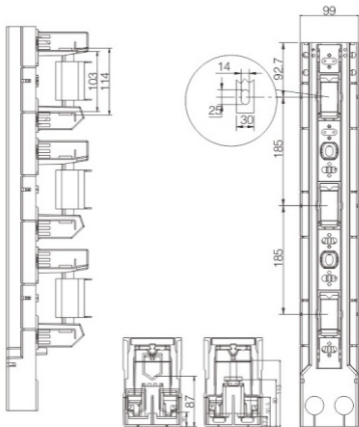
YCH5-250-630



The base of YCH5-400-630



The base of YCH5-250





CERTIFICATE

Product Model: YCH5

Standard: IEC 60947-3

Inspector : **CNC003**

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

CNC ELECTRIC

Tel: 0086-577-61989999 Fax: 0086-577-61891122

www.cncele.com E-mail: cncele@cncele.com

CNC

YCH5 series