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KYN28-12 Removable AC Metal-clad Switchgear

Summary

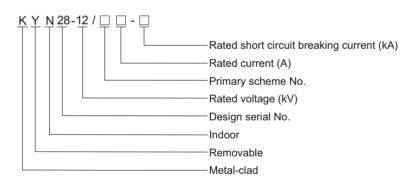
KYN28-12 removable AC m etal-clad switchgear (short for panel as below) is a new product, designed and developed by HEAG Group, based on the introduction of advanced foreign design and manufacturing technology. It will be a substitute for old fashioned metal-enclosed switchgear, such as KYN-12, JYN-12, GFC-12, etc. The panel applies to 3.6~12kV 3 phase AC 50Hz network for receiving and distributing power energy and also for control, monitor and protection. It can be arranged for single busbar, single busbar sectionlizing system or double busbar. It accords with IEC62271-200 AC Metal En closed Switch and Control Equipment above 1kV and below52kV IEC60694 Standard Common Clauses for HV Switchgear, DIN. VDE AC Switchgear at Rated Voltage Above 1kV, GB3906 3~35kVAC Metal Enclosed Switchgear and so on. It has perfect and reliable prevention function against misoperation.



Ambient condition

- 1. Ambient temperature: $-10^{\circ}C \sim 40^{\circ}C$; daily average $\leq 35^{\circ}C$;
- 2. Altitude: \leq 1000m;
- 3. Relative humidity: daily average \leq 95%, monthly average \leq 90%;
- 4. Earthquake intensity: ≤8 degree;
- 5. Applicable occasions should be free from inflammables, explosives, corrosives and severe vibration.

Model



Structure feature

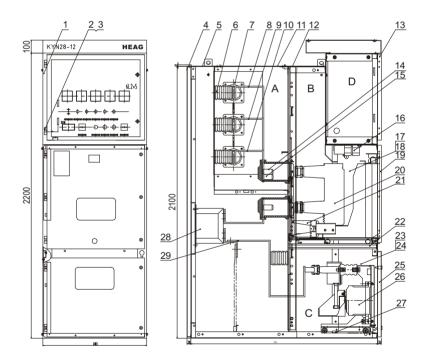
The enclosure is made of aluminium-zinc plated steel sheet by CNC machine, high precise dimension, short production cycle, exœllent mechanical strength and nice appearance. The busbar compartment, VCB handcart compartment, cable compartment and relay compartment are separated by metal sheet. Flexible operation for handcart movement, clear position instruction, the earthing switch allow to making short circuit current and creditable mechanical interbck. It fit with many kinds of handcart dircuit breaker such as VD4, VS1 and VHY1-12 etc, and also select FK(R)N32-12 fixed load breaker switch or VC series vacuum contactor. The panel adopts air insulated, the door of circuit breaker have the function of arti- explosion, tested by internal electric arcing fault, without any welding contacts on the panel, mechanical and electrical locking de sign, the product conforms to GB 3906, GB/T11022,IEC 62271-200,DL/T404 standards , and passed domestic and Netherlandish KEMA test.

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Technical specification

Item		Unit	Data
Rated insulation level	1min power frequency (phase to earth / across open contacts)	kV	42/48
	Lightning impulse withstand voltage (phase to earth/across open contacts)	kV	75/85
Rated voltage		kV	12
Rated frequency		Hz	50/60
Rated current		А	630~4000
Main busbar rated current		А	1250,1600,2000,2500,4000
Branch busbar rated current		А	630,1250,1600,2000,2500,3150
Rated short time withstand current(4s)		kA	16,20,25,31.5,40,50
Rated peak withstand current		kA	40,50,63,80,100,125
Protection degree			Enclosure IP4X, IP2X(VCBdoor opened)
Outline dimension(width \times depth \times height)		mm	650(800,1000)×1500(1300,1670,2000)×2200
Weight		kg	800~1200

Structure drawing



A.Busbar compartment B.Circuit breaker compartment C.Cable compartment D.Metering compartment 11. Top Cover of Busbar Comparment

12. Top Cover of VCB Compartment

13. Door of Instrument Compartment

- 1. Framework
- 2. Hinge
- 3. Middle Hinge
- 4. Rear Plate
- 5. Top Cover of Cable Compartment
- 6. Post Insulator7. Busbar Bushings8. A-phase Busbar

- 9. B-phase Busbar 10. C-phase Busbar
- Fixed Contact
 Fixing Plate of Aerial Socket
 Left Plate of VCB Compartment
 Right Plate of VCB Compartment

- 19. Door of VCB

14. Contact Box

- 20. Vacuum Circuit Breaker
- 21. Interlock & Shutter System
- 22. Earthing Switch Interlock
- 23. Left Plate of Cable Compartment
- 24. Right Plate of Cable Compartment
- 25. Door of Cable Compartment

- 26. PT handcart
 27. Earthing Busbar
 28. Branch Busbar
- 29. Current Transfarmer
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