

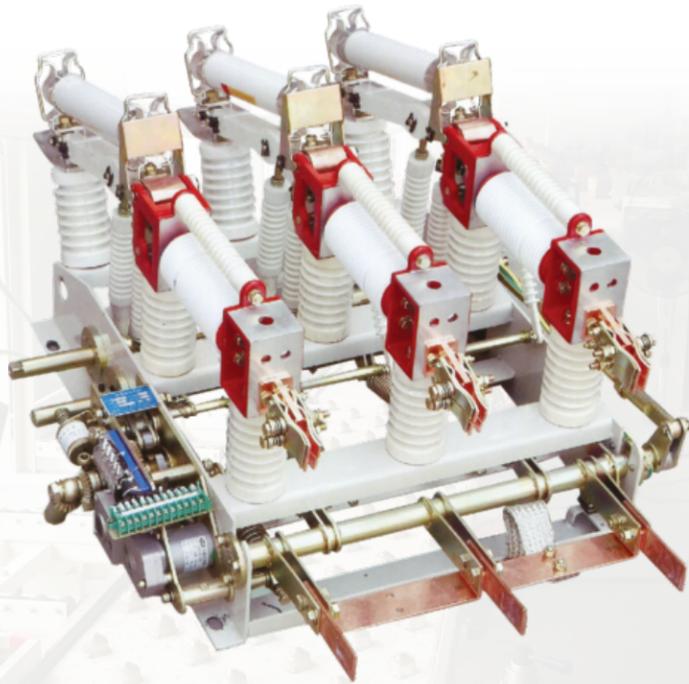


MV Load Switch

FZN21/FZRN21-12 Indoor Vacuum Load Switch

- FZ(R)N21-12D indoor MV vacuum load switch and composite apparatus, used for circuit AC 50Hz, rated voltage 12kV, plays power distribution, control and protection of electrical equipment function. It can replace the expensive circuit breaker in a certain range, thus saving the power grid investment costs. The combination of electrical appliances can be widely used in the ring network power supply system in urban and rural areas. Under normal operation condition, it can close, bear and break rated current, also can break the specified short-circuit current under abnormal conditions, especially suitable for the control and distribution and protection of transformer.
- Standard: IEC 60265-1, IEC 62271-105.

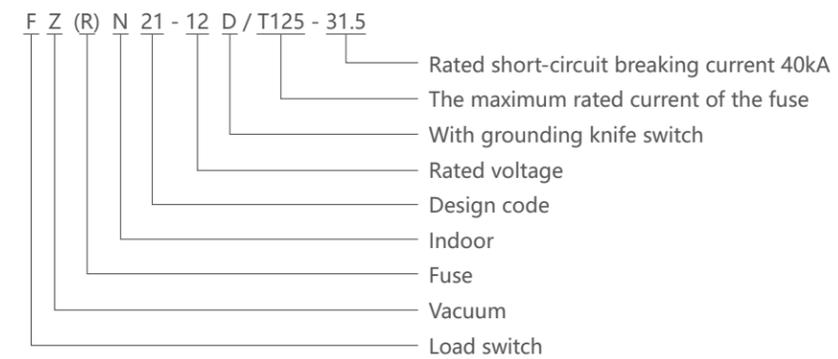
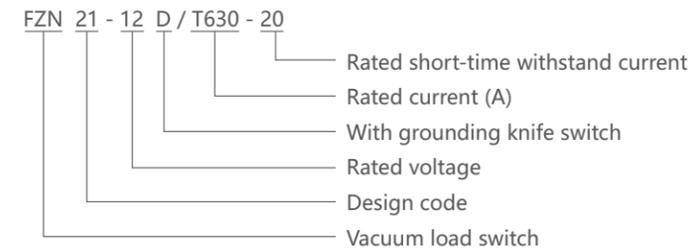
General



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Selection



Operating conditions

- Altitude: no more than 1000m;
- The environment temperature: upper limit +40°C, lower limit -30°C;
- Relative humidity: daily average value is not greater than 95%, monthly average is not greater than 90%;
- Saturated steam pressure: daily average value is not higher than 2.2×10^{-3} Mpa, monthly average is not higher than 1.8×10^{-3} Mpa;
- No severe vibration, no corrosive gas, no fire, no explosion danger place.



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Technical data

Item	Unit	Parameter
Technical parameter of combinations		
Rated voltage	kV	12
Rated frequency	Hz	50
The maximum rated current of the fuse	A	125
Transfer current	A	1550
The fuse triggered switch segment time	ms	40±5
Rated short-circuit breaking current	kA	31.5
Rated short-circuit closing current (prospective peak value)	kA	80
1min power frequency withstand voltage (vacuum fracture, interphase, phase to earth / isolation fracture)	kV	42/49
The lightning impulse withstand voltage (vacuum fracture, interphase, phase to earth / isolation fracture)	kV	75/85
Fuse impinger type		Medium-sized
Technical parameters of vacuum load switch of combined electrical appliance		
Rated voltage	kV	12
Rated frequency	Hz	50
Rated current	A	630
Rated active load breaking current	A	630
Rated close loop breaking current	A	630
5% at rated load breaking current	A	31.5
Rated cable charging breaking current	A	10
Interrupting no load transformer capacity	kVA	1250
1min power frequency withstand voltage (vacuum fracture, interphase, phase to earth / isolation fracture)	kV	42/48
The lightning impulse withstand voltage (vacuum fracture, interphase, phase to earth / isolation fracture)	kV	75/85
4s rated short-time withstand current	kA	31.5
Rated peak withstand current	kA	80
Rated short-circuit closing current	kA	80
Mechanical life	Times	10000
Allowable cumulative thickness wear in contact	mm	2
Opening and closing operating torque	N·m	≤200

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Overall and mounting dimensions(mm)

