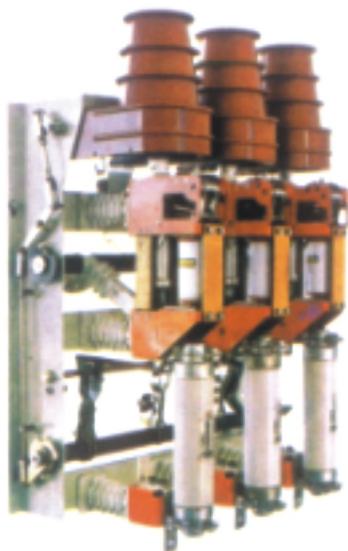


FZN25-12D/T630-20 Indoor High Vacuum Load-breaking Switch

FZRN25-12D/T125-31.5 Indoor High Vacuum Load-Breaking Switch - Fuse Combination Electric Appliance



► General

FZN25-12D/ T630-20 indoor AC high voltage load-breaking switch is three-phase AC 50Hz, rated voltage 12kV indoor installation, which is suitable for using in industry and mining situation and so on enterprise substation and transformer substation for protection and controlling the electrical facility, uses in Off and ON load current, closed loop current, idling transformer and cable charging current. It has manual and electrical motor operating mechanism that is advantageous to realize three remote controls requirement of power system.

FZRN25-12D/T□-31.5 Indoor AC High Voltage Vacuum Load Switch-The fuse combination electric appliance is three-phase AC 50Hz, rated voltage 12kV indoor installment, which is suitable for load control and short-circuit protection using in industry and mining situation and so on enterprise substation and transformer substation. It is equipped with the earthing switch that may withstand short-circuit current. The operating mechanism can be possible manual and electrically operated that is advantageous to realize three remote controls requirement of electrical power system.

FZN25-12D, FZRN25-12D load switch and combination electric appliance are suitable for load control and to short-circuit the protection in three-phase ring net or the terminal power supply urban district power distribution station and the industry consumer. Because the combined electric appliance has more reliable, economical protection function than circuit breaker electrical appliance equipment such as the transformer, especially for the ring net, double radiation power supply unit and box type transformer substation.

► Main Technical Parameter

1. Load switch main technical parameter

Number	Item		Unit	Data	
				FZN25-12D/T630-20	FZRN25-12D/T125-31.5
1	Rated voltage		kV	12	
2	Rated frequency		Hz	50	
3	Rated current		A	630	125
4	Rated insulation level	1 min power frequency withstand voltage	kV	Explosion chamber fracture 30; To earth, phase to phase 42; Isolation fracture 48; To earth, phase to phase 75; Isolation fracture 85;	
		Lightning impulse withstand voltage (peak value)	kV		
5	Rated dynamic current (peak value)		kA	50	
6	4 seconds heat-stable current		kA	20	
7	The rating active the load breaking current		A	630	
8	Rated closed loop breaking current		A	630	
9	Rated cable charge breaking current		A	10	
10	Rated breaking idling transformer capacity		kVA	1600	
11	Rated shift electric current		A		2000
12	Fuse model				SDLAJ-12 SFLAJ-12

Vacuum Switch Series

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Following above table

Number	Item	Unit	Data	
			FZN25-12D/T630-20	FZRN25-12D/T125-31.5
13	Ram output energy	J		2-5(middle grade)
14	Rated short-circuit making electric current	kA	50	
15	Earthing switch rated peak withstand current	kA	50	
16	Earthing switch 2s thermal stable current	kA	20	
17	Auxiliary loop rated voltage	V	≈ 220	≈ 110
18	Mechanical life	Time	10000	

2.Mechanical characteristics parameter

Number	Item	Unit	Data	
			FZN25-12D/T630-20	FZRN25-12D/T125-31.5
1	Between charged body and to earthing air distance	mm	> 125	
2	Depth of conduct tube inserting fixed contact seat		< 18	
3	Distance between moving and fixed contact of vacuum explosion chamber		6^{+1}_0	
4	Vacuum explosion chamber contact pressure spring compression amount		2^{+1}_0	
5	Vacuum explosion chamber average switchon speed		0.6 ± 0.2	
6	Vacuum explosion chamber average switchoff speed	m/s	0.9 ± 0.2	
7	Closing bounce time	ms	< 2	
8	Three-phase closing/opening synchronicity		< 3	
9	Main return route resistance	$\mu \Omega$	< 150	< 300
10	Manual operation maximum moment	Nm	< 160	
11	Fuse trigger opening time	ms	30-40	
12	Release trigger opening time		40-50	

3.Stored energy motor parameter

Number	Rated voltage(V)	Rated current(A)	Rated power(W)	Normal work voltage scope
66ZY-CJ01B	DC220	0.7	70	85%-110% Rated voltage
66ZY-CJ02B	DC110	1.5		

► Overall and installation dimensions

