

DNH18 Fuse Switch Disconnecter



The DNH18 Vertical fuse switch is a new vertical fuse switch disconnecter by GRL for three years.

In the early stage of research and development, market research was carried out, user feedback was integrated, and the product structure was optimized according to the new PI planning of GRL. Each design can solve the problems faced by user in practical application and provide the market with a new choice.

Model & Meaning

DN H 18 - 630 / 3 0 1 L D
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Enterprise code
- ② DISCONNECTOR SWITCH
- ③ Design code
- ④ Conerntional thermal cURRENT
- ⑤ Poles
- ⑥ "0" means a fixed type "1" means hanging
- ⑦ "0" means no auxiliary contact (not specified)
"1" means with auxiliary contacts
- ⑧ "L" means three- phase simultaneous operation
"S" means three- phase separate operation
- ⑨ "D" means with isolating knife No
"D" means with fuse

DNH18 Fuse Switch Disconnecter

DNH18 Vertical Fuse Switch Disconnecter Technical Parameters

				DNH18-160			DNH18-250			DNH18-400			DNH18-630			
Electrical parameter	With fuse link	Rated operating voltage	Ue	V	AC400	AC500	AC690	AC400	AC500	AC690	AC400	AC500	AC690	AC400	AC500	AC690
		Rated operating current	Ie	A	160	125	100	250	250	200	400	400	315	630	630	500
		Conventional thermal current	Ith	A	160	125	100	250	250	200	400	400	315	630	630	500
		Utilization Category			AC-23B	AC-23B	AC-22B	AC-23B	AC-22B	AC-21B	AC-23B	AC-22B	AC-21B	AC-23B	AC-22B	AC-21B
		Rated limited short-circuit current	Iq	kA		50		100	100	50	100	100	50	100	100	50
		Rated insulation voltage	Ui	V		1000		1000			1000			1000		
		Rated impulse withstand voltage	Uimp	kV		8		12			12			12		
		Rated frequency		Hz		50\60		50\60			50\60			50\60		
		Electrical endurance times		second		200		200			200			200		
	With copper link	Rated operating voltage	Ue	V		\		\	AC500	\	\	AC500	\	\	AC500	\
		Rated operating current	Ie	A		\		\	250	\	\	400	\	\	630	\
		Conventional thermal current	Ith	A		\		\	250	\	\	400	\	\	630	\
		Utilization Category				\		\	AC-23B	\	\	AC-23B	\	\	AC-23B	\
		Rated limited short-circuit current	Icw	kA		\		\	12	\	\	12	\	\	12	\
		Rated insulation voltage	Ui	V		\		\	1000		\	1000		\	1000	
		Rated impulse withstand voltage	Uimp	kV		\		\	12		\	12		\	12	
		Rated frequency		Hz		\		\	50\60		\	50\60		\	50\60	
		Electrical endurance Times		second		\		\	200		\	200		\	200	
Fuse	Fuse size (RT16NTNH) GB/T13539.2 IEC 60269-2				00			1			2			3		
	Operating current	In	A	160	125	100	250	250	200	400	400	315	630	630	500	
	Power loss	P	W	12	12	12	18	23	32	28	34	45	40	48	60	
Mechanism	Mechanical endurance times		second		1400			1400			800	800	1400		800	
	Busbar spacing		mm		185			185			185			185		
Protection	Frontal	On			IP20			IP20			IP20			IP20		
		Off			IP30			IP30			IP30			IP30		
Other	Electronic Fuse Monitor (EFM)				Can be added			Can be added			Can be added			Can be added		
	Signal feedback for opening and closing the switch (micro switch)				Can be added			Can be added			Can be added			Can be added		
Working conditions	Ambient temperature		°C													-5 ~ +55
	Working mode															Continuous operation
	Operation															Handle
	Installation form															Vertical
	Sea level		Meter													≤2000
	Pollution degree															3
	Overvoltage category						III							IV		

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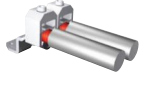
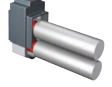
Fuse Switch Disconnecter

DNH18 Vertical Switch Disconnecter Technical Parameters

		DNH18-1000			DNH18-630x2			DNH18-1000x2					
Electrical parameter	With fuse link	Rated operating voltage	Ue	V	\			\					
		Rated operating current	Ie	A	\			\					
		Conventional thermal current	Ith	A	\			\					
		Utilization Category			\			\					
		Rated limited short-circuit current	Iq	kA	\			\					
		Rated insulation voltage	Ui	V	\			\					
		Rated impulse withstand voltage	Uimp	kV	\			\					
		Rated frequency		Hz	\			\					
		Electrical endurance times		second	\			\					
	With copper link	Rated operating voltage	Ue	V	AC500			AC500					
		Rated operating current	Ie	A	\	1000	\	\	1250	\	\	2000	\
		Conventional thermal current	Ith	A	\	1000	\	\	1250	\	\	2000	\
		Utilization Category			\	AC-21B	\	\	AC-21B	\	\	AC-21B	\
		Rated limited short-circuit current	Icw	kA	\	15, 25(special structure)	\	\	15	\	\	25	\
		Rated insulation voltage	Ui	V	1000			1000					
		Rated impulse withstand voltage	Uimp	kV	12			12					
		Rated frequency		Hz	50/60			50/60					
		Electrical endurance Times		second	100			100					
Fuse	Fuse size (RT16NTNH) GB/T13539.2 IEC 60269-2			\			\						
	Operating current	In	A	\			\						
	Power loss	P	W	\			\						
Mechanism	Mechanical endurance times		second	500			500						
	Busbar spacing		mm	185			185						
Protection	Frontal	On		IP20			IP20						
		Off		IP30			IP30						
Other	Electronic Fuse Monitor (EFM)			Can be added			Can be added						
	Signal feedback for opening and closing the switch (micro switch)			Can be added			Can be added						
Working conditions	Ambient temperature		°C	-5 ~ +55									
	Working mode			Continuous operation									
	Operation			Handle									
	Installation form			Vertical									
	Sea level		Meter	≤2000									
	Pollution degree			3									
	Overvoltage category			IV									

DNH18 Fuse Switch Disconnecter

DNH18 Vertical Fuse Switch Disconnecter Accessories Table

Type	Item No.	Appearance	Name	Part No.	Conductor cross section min.-max. (mm ²)	Torque (N · m)	Quantity (per unit)	Specifications for the matched vertical fuse switch disconnecter	Standard	Optional	
Product accessories	1.1		Position block	—	—	—	4	DNH18-250~630	●		
	1.2		Insulation board	—	—	—	2		●		
	1.3		Multi-function meter	DN57020	—	—	1			●	
	1.4		Current transformer (class 0.5)	Choose the switch model no. base on customer' s ampere in demand.	—	—	3			●	
	1.5		Electronic Fuse Monitor (EFM)	DN57001	—	—	1		DNH18-160~630		●
Accessories	Mounting terminal	2.1		Hanging terminal	DN54251	—	8	3	DNH18-160		●
		2.2		Hanging terminal	DN54253	—	30	3	DNH18-250~630		●
	Wiring terminal	3.1	Matching cable lug or busbar	M8 bolt	-----	16~70	12	3	DNH18-160		●
		3.2	Matching cable lug or busbar	M10 bolt	-----	35~240	30	3	DNH18-250		●
		3.3	Matching cable lug or busbar	M10 bolt	-----	35~240	30	3	DNH18-400		●
		3.4	Matching cable lug or busbar	M12 bolt	-----	70~240	35	3	DNH18-630		●
		3.5		Wiring terminal	DN54224	16~70 s(r) 16~70 s(s) 16~70 f+AE	3	3	DNH18-160		●
		3.6		Wiring terminal	DN54267	35~70 s(r) 16~150 s(s) 16~185sol(s)	25	3	DNH18-250		●
		3.7		Wiring terminal(V-shaped)	DN54275	50~300s(r) 50~240s(s) 50~300sol(s)	30	3	DNH18-250~630		●
		3.8		Horizontal double core wiring terminal	DN54276	2*185~240	30	1	DNH18-630		●
		3.9		Vertical double core wiring terminal		2*185~240	30	2	DNH18-630		●

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Fuse Switch Disconnecter

DNH18 Vertical Fuse Switch Disconnecter Selection Table

No.	Part No.	Pole	Current	System	Size	Adaptation	Remarks	
1	DNH18-160/3L	3	160A	185	668 × 50	Fixed installation (drill hole), three-phase synchronous operation and with fuse		
2	DNH18-160/311L	3	160A	185		Hanging installation, with auxiliary contacts, three-phase synchronous operation and with fuse		
3	DNH18-250/3L	3	250A	185	666 × 100	Fixed installation (drill hole), three-phase synchronous operation and with fuse		
4	DNH18-250/3S	3	250A	185		Fixed installation (drill hole), three-phase separate operation and with fuse		
5	DNH18-250/3LD	3	250A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse isolation knife		
6	DNH18-250/311L	3	250A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse		
7	DNH18-400/3L	3	400A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse		
8	DNH18-400/3S	3	400A	185		Fixed installation (drill hole), three-phase separate operation and with fuse		
9	DNH18-400/3LD	3	400A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse isolation knife		
10	DNH18-400/311L	3	400A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse		
11	DNH18-630/3L	3	630A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse		
12	DNH18-630/3S	3	630A	185		Fixed installation (drill hole), three-phase separate operation and with fuse		
13	DNH18-630/3LD	3	630A	185		Fixed installation (drill hole), three-phase synchronous operation and with fuse isolation knife		
14	DNH18-630/311L	3	630A	185		Hanging installation, with auxiliary contacts, three-phase synchronous operation and with fuse.		
Remarks	1. Please refer to the model no. definition of the vertical fuse switch disconnecter to choose the right items in demand.							
	2. Other accessories, such as wiring terminals, please refer to the vertical fuse switch disconnecter accessories list.							

DNH18M

Fuse Switch Disconnect



Widely used in wind power, photovoltaic, energy storage, power grid, communications, high-end equipment manufacturing and other industries.

Technical Parameters

Model No.	Size	Rated Voltage(V)	Rated Current (A)	Rated insulation voltage	Rated impulse withstand voltage
DNH18-160/30M	00	AC800V	63A	AC1250V	12kV
DNH18-250/30M	1	AC800V	160A	AC1250V	12kV
DNH18-630/30M	3	AC800V	315A	AC1250V	12kV

