

VD4/R

Indoor fixed lateral type vacuum circuit break 12...24 kV, 630...1250A, 12...25 kA



IEC 62271-100

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General

VD4 series circuit-breakers are devices under vacuum for indoor installation. Please contact ROCKWILL for special installation requirements. VD4-R series medium voltage vacuum circuit-breakers with lateral operating mechanism for indoor installation feature the separate pole construction technique.

Each pole houses a vacuum interrupter which is encased in the resin when the cylinder is moulded thanks to a special manufacturing process.

This construction method protects the vacuum interrupter from shock, pollution and condensation.

The operating mechanism is the trip-free stored energy type with independent opening and closing regardless of the opera-tor's action. The operating mechanism is widely used in all VD4-R series circuit-breakers with frontal control.

The circuit-breaker can be remote controlled when fitted with dedicated electrical accessories (gearmotor, opening and closing release).

The operating mechanism, the three poles and the current sensors (if provided) are installed on a metal frame without wheels. The construction is particularly compact, sturdy and of limited weight.

VD4-R series circuit-breakers with lateral operating mechanisms are life-long sealed pressure devices. (Standards IEC 62271-100)



•Code	Available versions								
1.Closing pushbutton	VD4 circuit-breakers with lateral operating mechanism are available in the								
2.open/closed indicator	following versions:								
3.Discharged		Fixed	Removable						
4.Operation counter		210	210						
5.Manually charging handle		230	230						
6.Opening pushbutton	Center-distance P =()mm	250	250						
7.Protection relay		275	275						
8.Delivery terminal box		300	300						
9.Current transformer		310	310						
10.Polo									

Main technical data

Vacuum Circuit-breaker		VD4/R 12		VD4/R 17			VD4/R 24			
Standards <iec -100="" 62271=""></iec>		•		•			•			
Rated voltage	Ur(kV)	12		17.5			24			
Rated insulation voltage	Us(kV)	12		17.5			24			
Withstand voltage at 50Hz<1min>	Ud(kV)	28		38			50			
Impulse withstand voltage	Up(kV)	75			95			125		
Rated frequency	fr(Hz)	50-60		50-60			50-60			
Rated thermal current<40°C>	lr(A)	630	800	1250	630	800	1250	630	800	1250
Rated duty breaking capacity	lsc(kA)	12.5	-	-	12.5	-	-	12.5	-	-
(symmetrical rated short-circuit current)		16	16	16	16	16	16	16	16	16
		20	20	20	20	20	20	20	20	20
		25	25	25	25	25	25	-	-	-
Short-time withstand current(3s)	lk(kA)	12.5	-	-	12.5	-	-	12.5	-	-
		16	16	16	16	16	16	16	16	16
		20	20	20	20	20	20	20	20	20
		25	25	25	25	25	25	-	-	-
Making capacity	lp(kA)	31.5	-	-	31.5	-	-	31.5	-	-
		40	40	40	40	40	40	40	40	40
		50	50	50	50	50	50	50	50	50
		63	63	63	63	63	63	-	-	-
Making capacity <0-0.3s-CO-15s-CO>		•		•			•			
Opening time	(ms)	4060		4060			4060			
Arcing time	(ms)	1015		1015			1015			
Fotal break-time (ms)		5075		5075			5075			
Closing time	(ms)	3060			3060			3060		

•RWS10

The RWS10 Overcurrent and Earth Fault relay is developed by using the latest generation of hardware technology and is available in multiple variants depending on power supply, binary input/output configuration and data communication facility.

The RWS10 Overcurrent and Earth Fault relay is housed in a 4U high, size 4 non draw-out case and these relays provide protection, monitoring, instrumentation, and metering with integrated input and output logic, data logging and fault reports.

Communication access to the relay functionality is via a front USB port for local PC connection or rear electrical RS485 port for remote connection.

Password Protection – 2 levels(System Config→Setting Password and Control Password, default password are "AAAA"). 50Hz/60Hz systems are optional, so that the use scope of device is extended (System Config→Setting Frequency).

Protection configuration is complete, and all protection functions can be switched on and off flexibly. At the same time, all protection and supervision functions can be set dependencies or independencies (System Config—Setting

dependencies). If you set the independence, the relevant parameters will be displayed as the function switch on.

6-ways intellectual switching value input and 6-ways intellectual switching value output.

Large capacity flash memory can record at least 100 times of historical events, and no data will loss even the power is off.

Circuits operating loop can be used both the direct or alternating current, self-adaptation open/close brake function, which can co-work with various of breakers, and the operation is simple and reliable.

The device has complete self-inspection function to in-service monitor the working conditions of various parts of the device, ensuring the reliability of the device.

