

ZN28-12Q、ZN28A-12Q系列户内真空断路器

ZN28-12Q, ZN28A-12Q series indoor vacuum circuit-breaker

中压元件
M.V. Apparatus



用途:

ZN28-12Q（整体式操作机构）、ZN28A-12Q（分体式操作机构）系列户内真空断路器广泛应用于发电厂、变电站、工矿企业作为电能的接受分配、控制和保护用，并适用于频繁操作的场所，该产品曾获布鲁塞尔尤里卡博览会金奖。

Application:

ZN28-12 Q (integral operating mechanism), ZN28A-12Q (detachable operating mechanism) series indoor vacuum circuit-breaker is extensively applied to power plants, substations, industrial and mining enterprises, for power distribution, control and protection, and also applied in situations where frequent operations are needed. This product has won the golden award at the Brussels Eureka fair.

特点:

- 性能可靠，适用范围广，是国内用量最大的12kV断路器系列。
- 全空气绝缘，大爬距元件。
- 系列性强，额定电流1250~4000A，短路开断电流到50kA。
- 可配电磁或弹簧机构。
- 可配装国产、西屋、西门子等灭弧室。
- 无污染，环保型。
- 产品符合IEC56、GB1984、JB3855、DL/T403等标准

Characteristics:

- With reliable performance and broad applicability; it is the mostly used 12kV breaker series in China.
- Complete air insulation, with element of large creepage distance.
- With strong series the rated current ranges from 1250 to 4000A, and the short-circuit breaking current is up to 50kA.
- It can be equipped with magnetic or spring operating mechanism.
- It can match together with China-made, Westinghouse, and Siemens vacuum interrupters.
- Free from pollution, of the environmental protection type.
- The product conforms to such standards as IEC56, GB1984, JB3855 and DL/T403

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主要技术参数 Major technical parameters

序号 S/N	项目 Items	单位 Unit	技术参数 Technical Parameters				
			ZN28A-10Q/1250-20 ZN28-10Q/1250-20	ZN28A-10Q/1250-25 ZN28-10Q/1250-25	ZN28A-10Q/1250-31.5 ZN28-10Q/1250-31.5	ZN28A-10Q/3150-40 ZN28-10Q/3150-40	ZN28-10Q/4000-50
1	额定电压 Rated voltage	kV	12				
2	额定电流 Rated current	A	1250	1250	1250 1600	2000 3150	4000
3	额定频率 Rated frequency	Hz	50				
4	绝缘水平 Insulation level	1min工频耐受电压 1min power-frequency withstand voltage kV 雷电冲击耐受电压 Lightning impulse withstand voltage	42 (相间、相对地); 48 (断口间) 42 (between phases, to earth); 48 (across the isolation distance)				
			75 (相间、相对地); 85 (断口间) 75 (between phases, to earth); 85 (across the isolation distance)				
5	额定短路开断电流 Rated short-circuit breaking current	kA	20	25	31.5	40	50
6	4s热稳定电流 4s thermal stability current	kA	20	25	31.5	40	50
7	额定短路关合电流 Rated short-circuit making current	kA	50	63	80	100	125
8	动稳定电流 Dynamic stability current	kA	50	63	80	100	125
9	额定短路开断电流开断次数 Breaking time of the rated short-circuit breaking current	次 Times	50	50	50	30	20
10	额定操作顺序 Rated operating sequence		分—0.3s—合分—180s—合分 O—0.3s—CO—180s—CO			分—180s—合分—180s—合分 O—180s—CO—180s—CO	
11	机械寿命 Mechanical endurance	次 Times	10000				
12	额定电容器组开断电流 Rated capacitor bank breaking current	单个电容器组 Single capacitor bank	630			800	
		背对背 Back-to-back capacitor bank	400			500	