

DW15系列万能式断路器

DW15 series conventional circuit-breaker

低压元件
L.V. Apparatus



用途:

DW15系列万能式断路器主要用于交流50Hz，额定电压380V，电流至2500A的配电网中，用来分配电能和保护线路及电源设备的过载、欠电压和短路，正常条件下可作为线路的不频繁转换之用。壳架电流630A的断路器及限流断路器亦可用于保护电动机的过载、欠电压和短路，正常条件下可作为电动机的不频繁起动之用。限流断路器特别适用于可能出现特大短路电流的网络。

特点:

- 具有电磁式（壳架电流630A除外）、热-电磁式，可任选一种。
- 具有三段保护特性（限流型除外），可实现选择性保护。
- 电源为上进线或下进线时，其分断能力指标相同（壳架电流630A除外）。
- 具有两台断路器之间的机械联锁装置，可实现双电源网络的安全切换。
- 固定式安装的断路器可根据需要提供垂直进出线或水平进出线等多种接线方式。
- 执行标准：GB14048.2和IEC60947-2

Application:

Dw15 series conventional circuit-breaker is mainly applied in the distribution network with AC 50Hz, the rated voltage of 380V, and the current up to 2500A, for power distribution, and overload, under-voltage, and short-circuit protection of the circuits and power supply equipment. Under normal conditions, it can be used for infrequent changeover of circuits. The circuit-breaker and the current-limiting circuit breaker with the frame current of 630A can also be used to protect overload, under-voltage and short circuit of the motor. Under normal conditions, it can be used for infrequent changeover of the motor. The current limiting circuit-breaker is especially suitable for the network where a super-huge short-circuit current may appear.

Characteristics:

- There are electromagnetic (except for the frame current of 630A), thermal-electromagnetic, and the electronic (except for the current-limiting type) over-current release, and either can be chosen.
- With the three-section protection property (except the current-limiting type), so it can realize selective protection.
- When the power supply is upper leading-in or bottom leading-in, the breaking capacity and index are the same (except the frame current of 630A).
- There is the mechanical interlocking device between two circuit-breakers, so it can realize the safe changeover in a two-supply network.
- For the fixed installed circuit breaker, several modes of wiring, such as vertical inlet and outlet, or horizontal inlet and outlet, can be provided according to the need.

Implementation of standards: GB14048.2, IEC60947-2

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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 | | | | | | |
|-----------|---|--------------------------------|------------------------------|------------|----------------|-----------------------|------|-------------------|-------------|
| 1 | 壳架等级额定电流 Inm Rated frame current | A | 630 | | 1600 | | 2500 | | |
| 2 | 额定工作电压 Ue Rated operating voltage | V | 380 | | | | | | |
| 3 | 额定电流最大值 I Maximal value of the rated current | A | 200 | 400 | 630 | 1000 | 1600 | 2500 | |
| 4 | 额定电流 In Rated current | A | 100、160 200 | 315 400 | 315、400 630 | 630、800 1000 | 1600 | 1600、2000 2500 | |
| 5 | 额定极限短路分断能力 Icu Rated ultimate short-circuit breaking capacity | kA | 20 | 50 | | 40 | | 60 | |
| 6 | 额定运行短路分断能力 Ics Rated service short-circuit breaking capacity | kA | 20 | 30 | | | | 40 | |
| 7 | 额定短时耐受电流 Icw Rated short-time withstand current | kA | 8 | 12.6 | | 30 | | 40 | |
| 8 | 短延时分断能力的延时时间 The delay time of the short time-delay breaking capacity | S | 0.2 | | | 0.2或0.4 0.2 or 0.4 | | | |
| 9 | 飞弧距离 Arc-over distance | mm | 280 | | | 350 | | | |
| 10 | 欠电压脱扣器额定电压 Ue Rated voltage of the under-voltage release | 瞬时 Instant | V | | | | | | AC: 220、380 |
| | | 延时1、3、5S Delayed for 1,3,5S | | | | | | | |
| 11 | 分励脱扣器额定电压 Us Rated voltage of the shunt release | V | AC: 220 380; DC: 110 220 | | | | | | |
| 12 | 电动闭合装置额定电压 Us Rated voltage of the electric closing device | V | AC: 220 380; DC: 110 220 | | | | | | |
| 13 | 预储能 Pre-stored energy | | 无 No | | | 有或无 Yes or No | | | |

注: (1)固定式限流断路器380V时, 一次极限通断能力为100kA; (2)抽屉式限流断路器380V时, 额定极限短路分断能力为50kA。
Note: (1) When the fixed-type current-limiting circuit-breaker is at 380V, the primary ultimate making and breaking capacity is 100kA;
(2) When the withdrawable-type current-limiting circuit-breaker is at 380V, the rated ultimate short-circuit breaking capacity is 50kA.

外形尺寸及安装尺寸 External dimension and installation dimension

| 型号 Model | 尺寸 Dimension | |
|---------------------------------------|---|--|
| | 外形尺寸(宽×深×高)(mm) External dimension (W×D×H)(mm) | 安装尺寸(mm) Installation dimension(mm) |
| DW15 固定式 DW15 fixed type | 240×418×304 | 220×300×4-Φ11 |
| DW15-1600 固定式 DW15-1600 fixed type | 441×531×355 | 400×330×4-Φ14 |
| DW15-2500 固定式 DW15-2500 fixed type | 687×571×382 | 660×330×4-Φ14 |