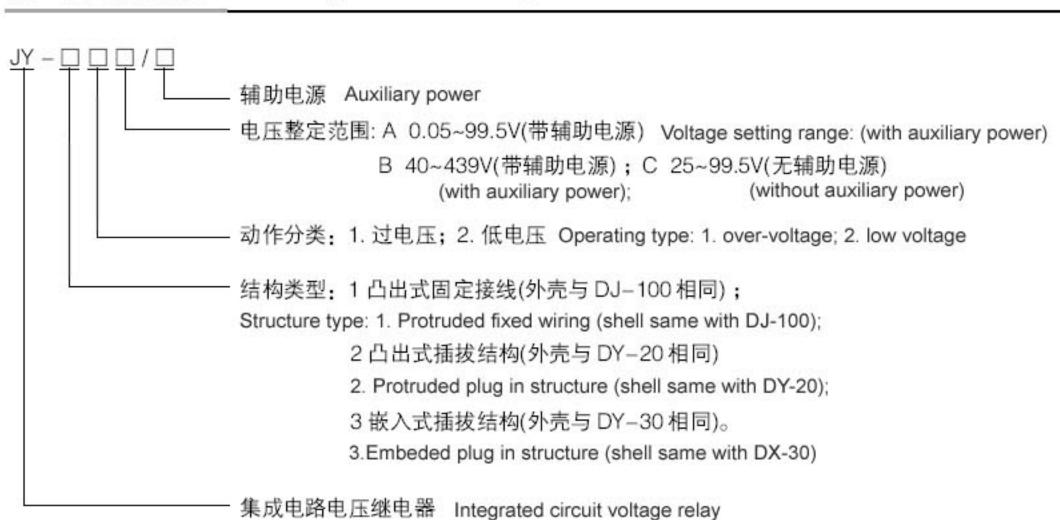


## 1 产品用途 Product Useing

JY系列集成电路电压继电器(以下简称产品)用于电 机、变压器和输电线的继电保护装置中, 作为电压保护 或低压闭锁的启动元件。本产品为集成电路静态型继电 器,精度高、功耗小、动作时间短、返回系数高、整定直 观方便, 克服了原来电磁型继电器触点易抖动、工作噪 音较大、动作值返回系数难调整及运输后动作值易变等 缺点。产品分为三个系列: JY-10、JY-20、JY-30, 可 分别替代 DJ-100、DY-20、DY-30、DY-50 等系列电 磁型电压继电器。

JY series integrated circuit voltage relays (for short: the product) are applying for relay protective equipments of motor s, transformers and transmission lines as starting elements of voltage protection or low voltage blocking. The product is an integrated circuit static state type relay, has the characteristics of high precision, low power consumption, short o perating time, high return coefficient, convenient setting, and resolves the original weaknesses of electromagnetic rela ys such as easily dithering, big working noise, difficult adjustment of operating value return coefficient, and easily cha nge of operating value after transportation. The product can be divided into 3 series: JY-10, JY-20, and JY-30, which c an substitute electromagnetic type voltage relays such as DJ-100, DY-20, DY-30 and DY-50.

### 2 产品型号及含义 Product Types and Meanings



注: JY-10、20、30系列电流继电器与其他各厂家型号JD-1A、1B、1C、2C, JY8-10、20、30 系列等共属同类型产品。

Note: JY-10, 20, 30 series current relays are same products with JD-1A, 1B, 1C, 2C, JYB-10, 20, 30 series by other manufacturers.

# 3 主要技术参数 Main Technological Parameter

- ●辅助电压: DC 48V、110V、220V, AC 110V、220V、380V。
- 触点形式:一常开一常闭。
- 整定误差:不大于±2%。
- 延时一致性:不大于整定值的 2.5%。
- ●返回系数:过电压继电器不小于0.9;欠电压不大于1.2。
- ●动作时间:过电压继电器 1.2 倍整定值动作时间不大于 25ms;低电压继电器 0.5 倍整定值的 动作时间不大于 30ms。
- ●返回时间:过电压继电器返回时间小于30ms;低电压继电器返回时间小于20ms。
- ●功率消耗:交流回路功率小于2VA;直流回路功耗小于5W。
- ●触点容量:在电压不超过250V,电流不超过5A,时间常数为5±0.75ms的直流有感负荷电 路中,产品输出触点的断开容量为50W。输出触点在上述规定的负荷条件下,产品能可靠动作 及返回 5 × 10<sup>4</sup>次,输出触点长期允许接通电流为 5A。
- ●介质强度:产品各导电端子连在一起,对外露的非带电金属部分或外壳之间,能承受2000V(有 效值)50Hz 的交流电压历时 1 分钟试验而无绝缘击穿或闪络现象。

 Auxiliary voltage: DC 48V, 110V, 220V, AC 110V, 220V, 380V ·Contact type: 1 normally open, 1 normally closed

·Set error: ≤±2%

Delaying consistency: ≤2% of setting value

·Return coefficient: over-voltage relay ≥0.9; low voltage relay≤1.2 Operating time: operating time of over-voltage relay 1.2 times setting value ≤25ms; operating

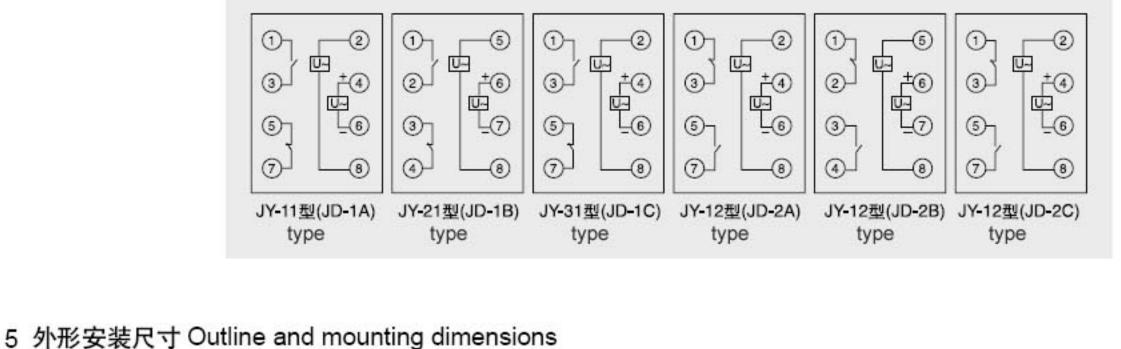
time of low voltage relay 0.5 times setting value ≤30ms ·Return time: return time of over-voltage relay ≤30ms; return time of low voltage relay ≤20ms

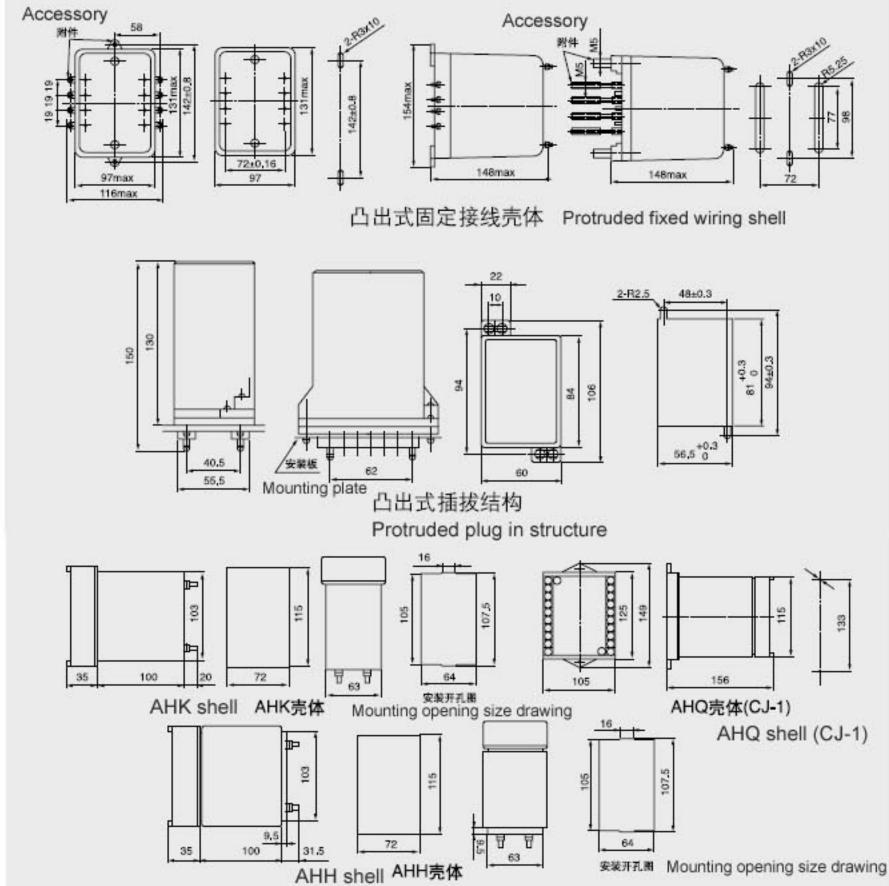
·Power consumption: AC loop power <2VA; DC loop power consumption <5W Contact capacity: When DC inductive load circuit in which voltage≤250V, current≤5A, time co

efficient=5±0.75ms, the breaking capacity of product output contact is 50W. When the output contact is under the above-specified load condition, the product can operate and return 5×104 times reliably. The long-term permit making current of output contact is 5A. ·Dielectric strength: The conductive terminals of the products are connected together, and the

uncharged metal or shell exposed outside can bear 2000V (valid value) 50Hz AC voltage exp eriment, which lasts 1 minute without insulation breakdown or flashover phenomenon.

4 接线图 Wiring drawing





嵌入式插拔结构 Embedded plug in structure