



1 型号及含义 Type and meanings

JY-10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,作为过电压保护或低电压闭锁的启动元件。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优点。

JY-10 series integrated circuit voltage relay (for short: the product) are applying for relay protective equipments of motors, 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 operating time, high return coefficient, convenient setting, and resolves the original weaknesses of electromagnetic relays such as easily dithering, big working noise, difficult adjustment of operating value return coefficient, and easily change of operating value after transportation.

2 主要技术参数 Main Technological Parameter

- 辅助电压: DC220V,110V,48V;
- 整定范围: A: 0.5 ~ 99.5V; B: 40~439V
- 整定误差: 不大于 $\pm 2\%$
- 动作分类: JY-10,20,30 系列: “1” 表示过电压; “2” 表示低电压;
JD-A,B,C 系列: “1” 表示低电压; “2” 表示过电压;
- 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倍整定值的动作时间不大于 25ms, 低电压继电器 0.5 倍整定值的动作值的动作时间不大于 30ms。
- 返回时间: 过电压继电器返回时间不小于 30ms; 低电压继电器返回时间小于 20ms。
- 功率消耗: 交流回路功耗小于 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 $5 \pm 0.75\text{ms}$ 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 5×10^4 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 220V, 110V, 48V

·Setting range: A: 0.5~99.5V; B: 40~439V

·Set error: $\leq \pm 2\%$

·Operation type: JY-10, 20, 30 series: “1” means over-voltage; “2” means low voltage;
JD-A, B, C series: “1” means low voltage; “2” means over-voltage.

·Return coefficient: over-voltage relay ≥ 0.9 ; low voltage relay ≤ 1.2

·Operating time: the operating time of over-voltage relay 1.2 times setting value $\leq 25\text{ms}$; the operating time of low voltage relay 0.5 times setting value $\leq 30\text{ms}$,

·Return time: return time of over-voltage relay $\leq 30\text{ms}$; return time of low voltage relay $\leq 20\text{ms}$

·Power consumption: AC loop power $< 2\text{VA}$; DC loop power consumption $< 5\text{W}$

·Contact capacity: When DC inductive load circuit in which voltage $\leq 250\text{V}$, current $\leq 5\text{A}$, time coefficient $= 5 \pm 0.75\text{ms}$, 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 5×10^4 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 experiment, which lasts 1 minute without insulation breakdown or flashover phenomenon.

3 安装开孔尺寸、接线图 Mounting plate opening size, Wiring drawing

