



### 1 产品概述 Product Summarize

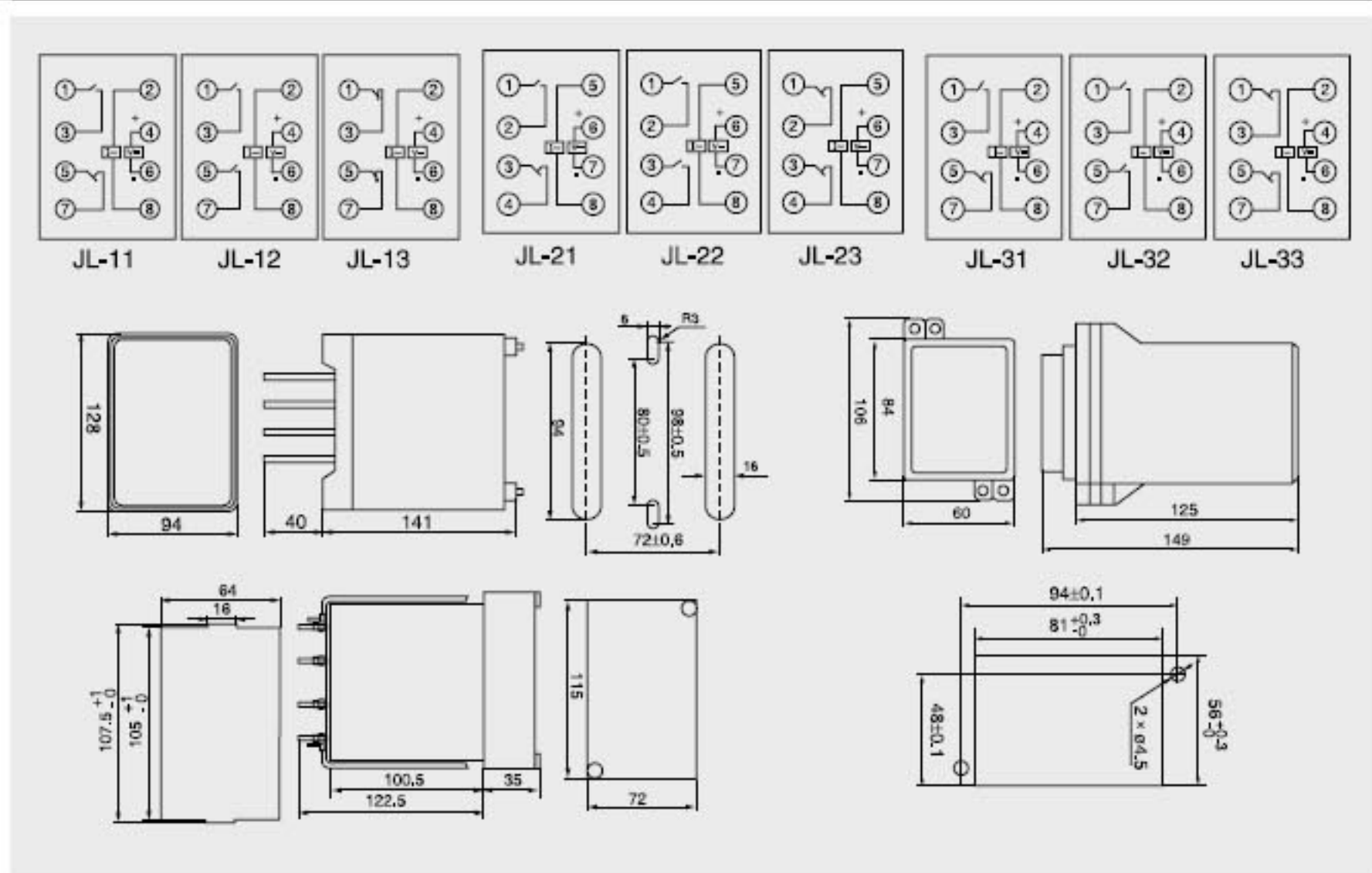
JL-10、20、30系列集成电路电流继电器，用于发电机、变压器和输电线路的过负荷短路保护装置中，作为测量、启动元件。JL系列电流继电器由集成电路构成，属静态继电器系列，它克服了原来电磁型电流继电器触点易抖动、工作噪声较大、动作值、返回系数难调整及运输后动作值易改变等缺点，JL系列继电器在使用过程中无需考虑串、并联。可以很方便代替DL-10、20C、30、DL-7等电磁型电流继电器。

JL10, 20, 30 series integrated circuit current relays are applying for overload short circuit protective equipments of generators, transformers and transmission lines as measuring and starting elements. This series are composed by integrated circuit, and belong to static state relay series. It resolves the shortcomings of original electromagnetic relays such as easily dithering, big working noise, difficult adjustment of operating value return coefficient, and easily change of operating value after transportation. There is no need of series and parallel in the operating process. This series can substitute DL-10, 20C, 30, and DL-7 etc electromagnetic type current relays.

### 2 主要技术参数 Main Technological Parameter

辅助电源(V) Auxiliary power	DC220V,110V,48V,24V				
电流整定电源(A) Current setting power (A)	A: 0.05~0.5A	B: 0.2~2A	C: 2~20A	D: 5~50A	E: 10~100A
级差(A) Rank difference (A)	0.01	0.01	0.1	0.1	0.1
额定电流(A) Rated current (A)	1	3	10	15	15
长期允许电流(A) Long term allowable current	1	4	15	20	20
整定误差 Set error	≤ ± 3%				
返回系数 Return coefficient	≥ 0.9				
触电容量 Contact capacity	在电压不大于250V，电流不大于2A扔直(时间常数为5 ± 0.75ms)中，继电器触点断开容量为30WW。继电器输出回路触点长期允许闭合电流为5A。 When voltage ≤250V, current ≤2A (time coefficient =5±0.75ms), the breaking capacity of the contact is 30WW. The long-term allowable blocking current of output loop contact is 5A.				

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



### 1 型号及含义 Type and meanings

JL-10、20、30W系列无需辅助电源静态电流继电器是静态电流继电器的升级产品，在静态电流继电器(需要增设辅助电源)的基础上在不影响其质量前提下，对其进行改进和优化，解决了原来需要辅助电源接线的麻烦。用本继电器替换老型DL型系列电磁式电流继电器相当方便，其尺寸及端子接线与DL型完全相同，不需要另外加线或改变其端子接线，无须考虑串并联能直接替换。

JL10, 20, 30 series without auxiliary power static state current relays are the upgraded products of static current relays. On the base of static current relays (have to add auxiliary power) and on the precondition of ensuring the quality, the upgraded products make improvement and optimization, and solve the problem of auxiliary power wiring. Substituting DL type electromagnetic current relay by this series is convenient, because the size and terminal wiring of these two types is completely same, and there is no need of adding wire or changing the terminal wiring, and can substitute without consideration of series or parallel.

### 2 主要技术参数 Main Technological Parameter

1. 电流整定范围 A:1A~50A; B:2A~99.9A,级差为0.1A
  2. 功率消耗: 交流回路功率小于 1VA(交流额定值时)。
  3. 动作时间: 1.1 倍整定值的动作时间不大于 40ms; 2 倍整定值的动作时间不大于 35ms。
  4. 返回系数: 不小于 0.85。
  5. 返回时间: 不大于 27ms。
  6. 触点容量:
    - a. 接通容量: 触点可长期接通电流 3A;
    - b. 断开容量: 在电压不大于 250V、电流不大于 0.5A 的直流有感负载电路中(电路时间常数 L/R 为 7ms),分断功率为 30W,断开交流电路(COSφ 为 0.4 ± 0.1) 负荷的容量为 300VA。
1. Current setting range A: 1A~50A; B: 2A~99.9A, rank difference is 0.1 A
  2. Power consumption: AC loop power ≤1VA (AC rated value)
  3. Operating time: the operating time of 1.1 times setting value ≤40ms; the operating time of 2 times setting value ≤35ms.
  4. Return coefficient: ≥0.85
  5. Return time: ≤27ms
  6. Contact capacity:
    - a. Connecting capacity: contact can long term connect current 3A;
    - b. Breaking capacity: When in DC inductive load circuit (circuit time coefficient L/R =7ms) of voltage ≤250V, current ≤2A (time coefficient =5±0.75ms), the breaking power of is 30W, the capacity of breaking AC circuit (COSΦ=0.4±0.1) load =300VA.

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