



1 产品概述 Product Summarize

JGL 系列静态反时限过流继电器，该继电器应用于电机变压器等设备以及输配电系统的继电保护回路中，尤其适用于无直流设备的厂站，当主设备或输配电系统出现过负荷和短路故障时，该继电器能按预定的时限可靠动作，切除故障部分，同时满足了电力部压缩时间级差反措要求。

This series are applying for protective loops of equipments such as motor transformers and transmission and distribution system, especially suitable for the plant-stations without DC equipments. When the main equipment or transmission and distribution system appears overload and short circuit fault, this series can operate reliably as reserved time limit, and remove the faults; in the same time, this series meet the compressing time rank difference anti-accident measures requirements of Ministry of Electric-power.

2 主要技术参数 Main Technological Parameter

- 过电流整定范围：2-20A，级差为 0.1 A。
- 速断电流倍数：2-12 倍。
- 延时时间整定范围：0.1-999.9S，差为 0.1S。
- 速断延时时间整定范围：0.1-0.9S，级差为 0.1S。
- 触点容量：AC250V，可长期接通 5A，闭合触点可分断电流 AC ≤ 2A。
- 功耗：当电流为额定值时，继电器功率消耗不大于 5W。
- 反时限延时特性表及曲线计算公式：

1、反时限延时特性表(S)

JGL 系列静态反时限过流继电器

- Over-current setting range: 2-20A, rank difference is 0.1 A.
- Quick-break current multiples: 2-12 times.
- Delaying time setting range: 0.1-999.9S, rank difference is 0.1S.
- Quick-break delaying time setting range: 0.1-0.9S, rank difference is 0.1S.
- Contact capacity: AC 250V, can long term connect 5A, blocking contact can break current AC≤2A.
- Power consumption: When the current is rated value, the power consumption of relay ≤5W.
- Inverse-time delaying characteristic table and curve calculation formula:

1. Inverse-time delaying characteristic table (S)

JSL series static state in reverse time limit over-current relays

1	0.357	0.216	0.143	0.102	0.081	0.066	0.060	0.051	0.047	0.044
5	4.52	2.85	1.64	1.10	0.866	0.700	0.583	0.503	0.454	0.410
10	10.03	6.23	3.52	2.35	1.80	1.52	1.23	1.07	0.971	0.863
15	15.3	9.53	5.40	3.63	2.74	2.30	1.89	1.63	1.48	1.33
20	20.7	12.8	7.35	4.89	3.70	3.04	2.56	2.19	2.00	1.82
25	26.4	16.3	9.27	6.22	4.65	3.84	3.22	2.79	2.53	2.29
30	31.7	19.7	11.2	7.58	5.75	4.71	3.89	3.43	3.04	2.68
35	36.9	23.2	13.0	8.85	6.52	5.45	4.55	4.00	3.53	3.09
40	42.2	26.4	15.0	10.2	7.69	6.27	5.21	4.60	4.07	3.51
45	47.7	29.6	16.9	11.4	8.65	7.03	5.92	5.21	4.57	3.99
50	52.2	33.2	18.9	12.5	9.51	7.79	6.65	5.76	5.08	4.46
60	63.7	40.0	22.8	15.2	11.4	9.45	8.04	6.92	6.07	5.83
70	74.9	46.9	26.7	17.8	13.1	11.1	9.41	8.05	7.18	6.29
80	85.7	53.6	30.5	20.5	15.1	12.7	10.7	9.22	8.23	7.25
90	96.6	60.6	34.1	23.3	17.3	13.9	12.1	10.4	9.31	8.20
100	105.3	66.8	38.2	26.1	19.5	15.9	13.4	11.7	10.3	9.11
拔码 T I/IS	1.5	2	3	4	5	6	7	8	9	10

2、曲线计算公式： $T=K.TS[(1+IS/100I).IS/I]/\text{COS ARC SIN}(IS/I)$

T:动作时间 TS:拔码设定值 IS:整定电流值 I:输入电流值 K:电路系数 0.908

2. Curve calculation formula: $T=K.TS [(1+IS/100I).IS/I] /\text{COS ARC SIN}(IS/I)$

T: dial time, TS: dial setting value, IS: setting current value, I: input current value, K: circuit coefficient

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

