

## Surge Monitor & Discharge Counter

### 1 General

Monitor connected with surge arrester operations continuously in power system, measures change of leakage current on-line and recording the discharging times of surge arrester. According to the change of leakage current, the condition and abnormal condition during surge arrester operation could be clarified to avoid accident and improve the reliability of power system operation. Discharge counter connected with surge arrester in series is used to record the discharging times of surge arrester

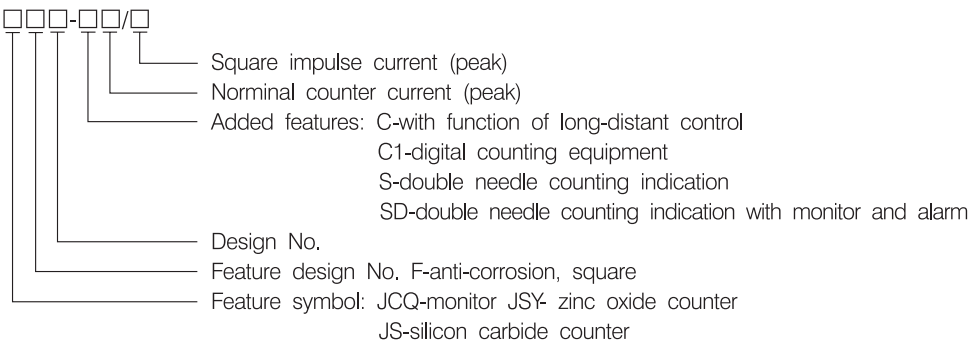
Features of the counter:

- It is small in volume, light in weight and easy for installation.
- Adopting wide-angle milliammeter, electromagnetic counter of single/double-pointer can increase the distance available for recording.
- Low residual voltage has no effect to surge arrester.
- Stainless enclosure can increasing the capacity of anti-corrosion.

### 2 Application

The monitor is suitable for all kinds of surge arrester with voltage 500kV and below, the discharge counter is suitable for all kinds of surge arrester of voltage 330 kV and below. The service condition is the same is the connected surge arrester.

### 3 Type Designation



# Supplementary Components

## 4 Main Technical Parameter

### 4.1 Technical Data For Monitor

Model	Nominal discharge current 8/20us (kAp)	Lower limit of operating current 8/20us (Ap)	Residual voltage under nominal discharge current (≤kAp)	Withstand current of square wave 2000us 18 times (A)	High current impulse withstand capa. 4/10us Twice (kAp)	Current measuring & indication error (mA)	Counting range (counting circularly)	Notes	Fig. No.
JCQ-A JCQ-C	10	50	1.5	400~1000	100	0~3±5%	0~99	With alarm contact	1
JCQ-C1	10	50	1.5	400~1000	100	0~3±5%	0~999	Digital counter	2
JCQF2	10	50	1.5	400~1200	100	0~3±5%	0~99	Stainless enclosure	3
JCQF3	10\20	50	1.5	400~1500	100	0~3±5%	0~99	Stainless enclosure	4

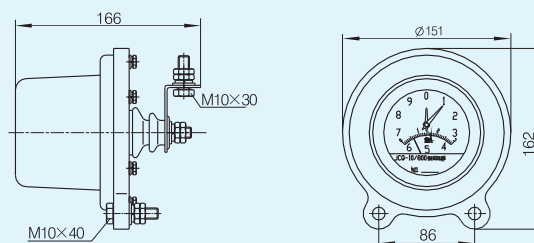
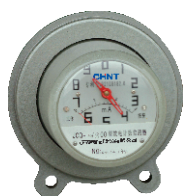


Fig.1

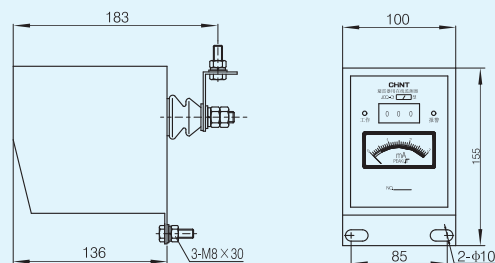
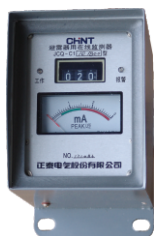


Fig.2

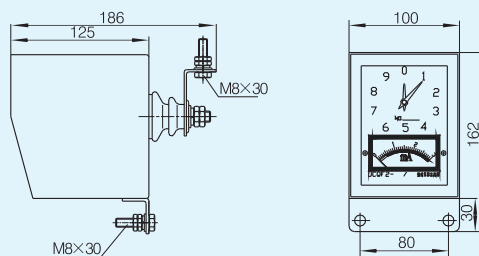
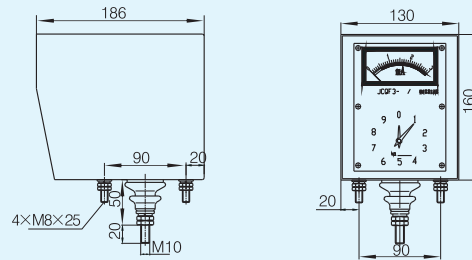


Fig.3

# Supplementary Components



Fig.4



## 4.2 Technical data for Discharge Counter

Model	Nominal discharge current 8/20us (kAp)	Lower limit of operating current 8/20us (Ap)	Residual voltage under nominal discharge current (≤kAp)	Withstand current of square wave 2000us 18 times (A)	High current impulse withstand capa. 4/10us Twice (kAp)	Counting range (counting circularly)	Notes	Fig. No.
JS-8	5/10	50	1.1	400~800	65	0~9	Single -pointer	5
JSY-8			1.5	400~1000	100			
JS-8S	5/10	50	1.1	400~800	65	0~99	Double-pointer	
JSY-8S			1.5	400~1000	100			
JSYF9	5/10	50	1.5	400~1200	100	0~9	Stainless enclosure single-pointer	6
JSYF9-S						0~99	Stainless enclosure double-pointer	
JSYF9-SD							Stainless enclosure double-pointer With alarm contact	



Fig.5

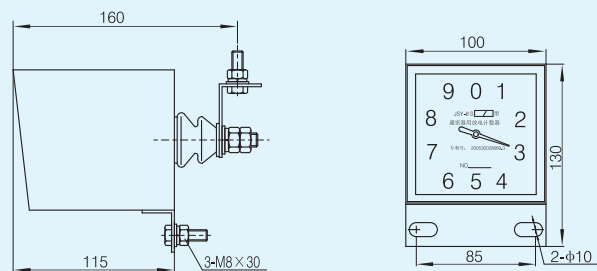


Fig.6

