FI-3A2W
Introduction

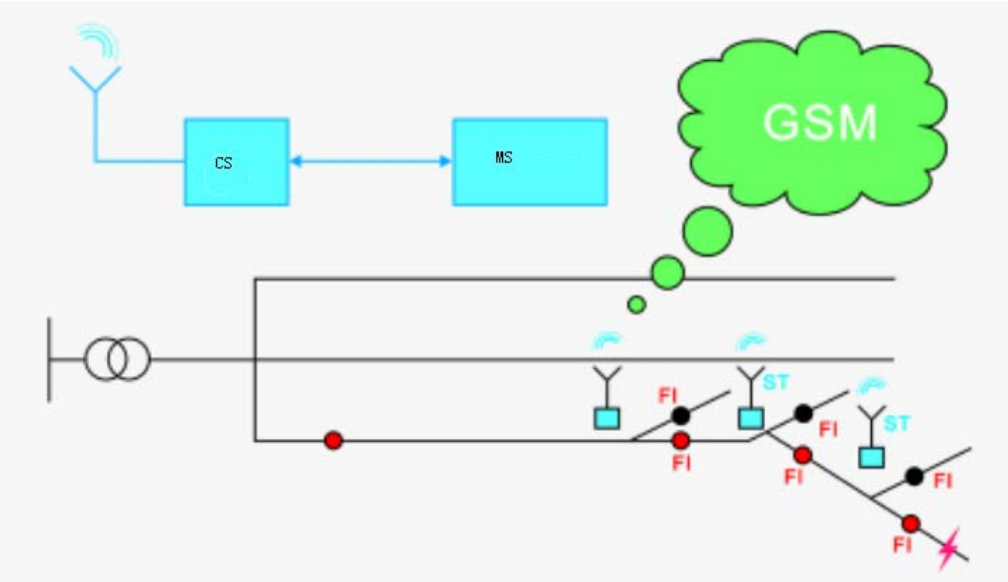
Contents

1 General Information

FI-3A2W Fault Indicator are used under 35KV Distribution System to faster locate the fault in distribution systems by flashing to indicate the path of fault current, help the crews to trace the path of fault current and to locate the fault more efficiently, greatly reduce the time and cost of fault location, and enhance the reliability of power supply.

2 Pinciple

The fault indicator detects and identifies fault current with induced coil and logical identification circuit.Once the indicator is triggered it will begin to flash which indicates the location of the fault,at the same time, it will transmit the fault information to the Sub-transmitter which is installed nearby. The Sub-transmitter is about 30 meter far from the fault indicator.



FI：Fault Indicator
ST： Sub-transmitter
CS：Center Station
MS：Monitor Control Station

3 Operation

FI-3A2W operation process with Installation and Removal.

3.1 Installation

FI-3A2W the initial state as pic-A. Pull open the split coil CT using both hand carefully

minding your fingers, when the CT has been cocked, the line holding springs will automatically engage, locking the unit in the “open” position.Use the shotgun stick to install.

3.2 Removal

Use the shotgun stick to removal the FCI. Open the shotgun stick, attach the hot stick ring, with a sudden forceful downward movement, removal the FCI from the line.

3.3 Manual test

“Test” are marked respectively on on side of the indicator. When placing a magnet close the side marked “Test”.LEDs on the either side will flash and the FCI will transmit information. To reset, simply place the magnet close the side marked “TEST”. The LEDS will stop flashing.

4 Features

4.1 Live line installation and removal can be installed or removed on live line, adapted to overhead line.

4.2 Be made with fully-sealed structure and of waterproof, rustproof material, suit able for installation on the line.

4.3 Automatically sets the maximum trip current based on load.

4.4 Automatic inrush restrain

4.5 Flashing indicate, for easy night observation

4.6 Automatic Reset

4.7 Manual test and reset can test the condition of the indicator and reset it manually with a magnet

4.8 Battery Self-indicate and Replaceable

4.9 Rugged: Test materials from the 10 m high fell to the ground and not damaged

5 Ratings

Item	Description	Ratings
Environment ratings	Environment Temperature	-35 – 75 C
	Relative Humidity	<= 100%
	Altitude	<2000m
	Thermoelectric	<=30 C
System Ratings	Communication Frequency	2．4GHz
	Communication distance	〉30M
	Line Voltage	<=35kv
	System Frequency	50Hz, 60Hz
	Operating Mode	Single power source or radial supply
	Minimum Load Current	<= 0A for overhead bare conductor <= 4A for cable or insulated line
	Maximal load current	<630A
	Minimum fault Current Addition	>120A
	Max. Feedback Current	<80A
	Delay of the relay protection	<10S

	The interval of the reclose operation at the substation	>0.2S
Product Ratings	Operation power	2 lithium cell of 3.6V/2.7AH
	Power consume	Operation power <20uA
	Flash Indication	50ms per 2S
	Short time withstand current	40KA/2S
	Weight	<0.5kg
	Permanent withstand current	630A

FCC Information and Copyright

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,
uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference
to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does
cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is
encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

15.19 Labelling requirements.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.