



**The 10 reasons
to choose a SIA-B
Self-powered relay**

FANOX
Safely protected

SIA-B + specific CTS Self-powered OC&EF Relay

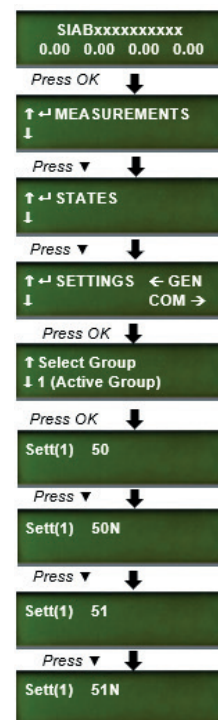
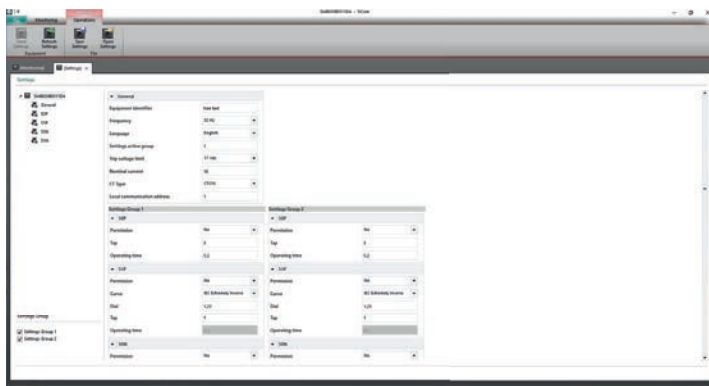
Main advantages

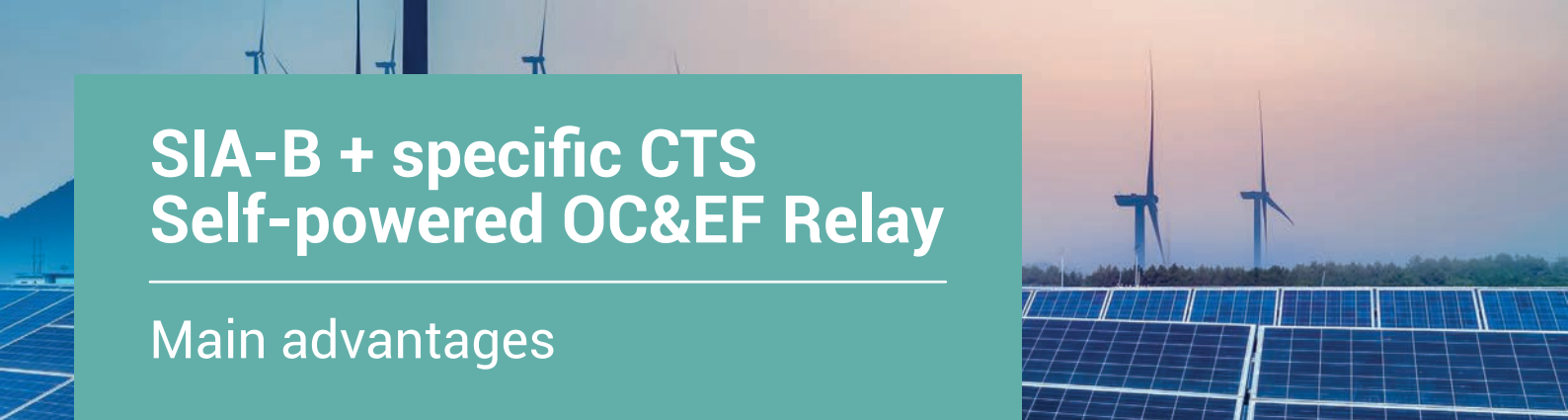
SIA-B ADVANTAGES IN FRONT OF OTHER COMPETITORS

1

Configurable protection functions (50/51/50N/51N):

- » Different settings to be adjusted by our own Software SICOM.
- » You can adjust parameters like:
 - > Current tap.
 - > Curves and TMS (Time multiplier setting).
 - > Time delay.





SIA-B + specific CTS Self-powered OC&EF Relay

Main advantages

SIA-B ADVANTAGES IN FRONT OF OTHER COMPETITORS

2

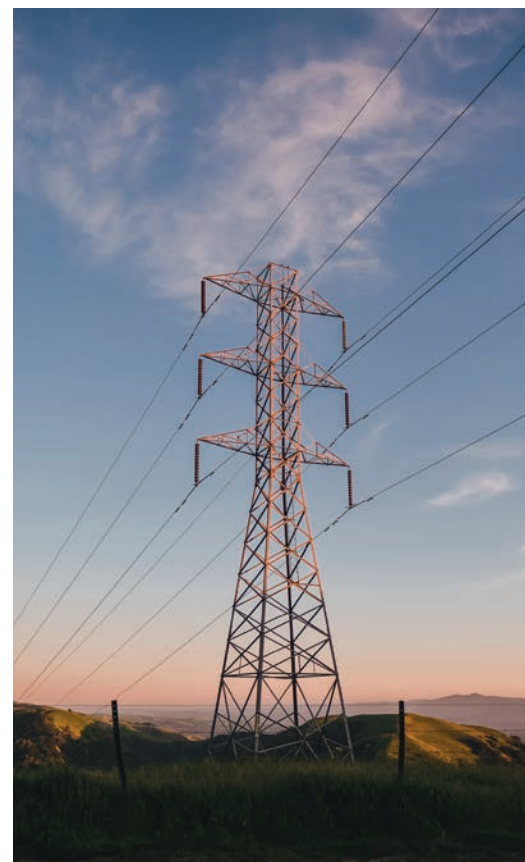
External Trip 49T and 49:

- » 49T is available without the need for an external power supply.
- » The ANSI 49 also available for thermal image.
- » Trip Block for switch disconnecter.

3

Capability to work with inrush Detection / Second Harmonic Blocking (SHB):

- » Avoiding an undesirable behavior due to inrush current when energizing a machine like a transformer or a generator.



SIA-B + specific CTS

Self-powered OC&EF Relay

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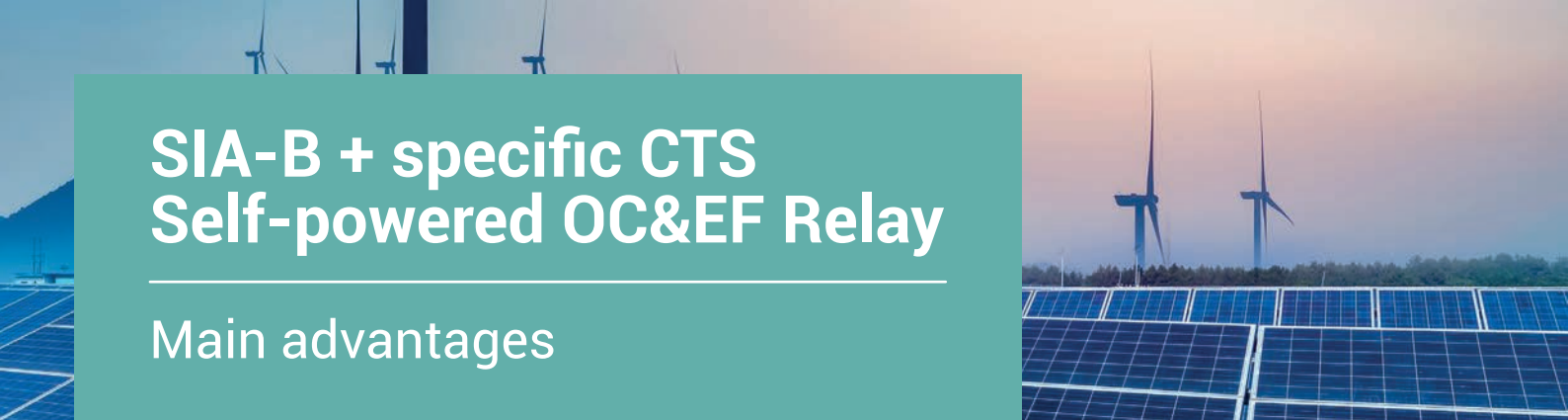
- 4** **Current transformer.**
- » The SIA-B can cover several primary currents thanks to the options of the current transformers (the same relay can work with all the CTs):

IS RANGE	IN RANGE	CT RATIO	CT TYPE
8-28 (A)	3-33 (A)	7.2/0.075	CT008-5
16-56 (A)	6-65 (A)	14.4/0.075	CT016-5 CT016-10
32-112 (A)	12-130 (A)	28.8/0.075	CT032-5
64-224 (A)	25-260 (A)	57.6/0.075	CT064-5
128-448 (A)	51-520 (A)	115.2/0.075	CT128-5

ANSI CODE FUNCTIONS

50, 51, 50N, 51N, SHB, 49T, 49, TB, PGC.





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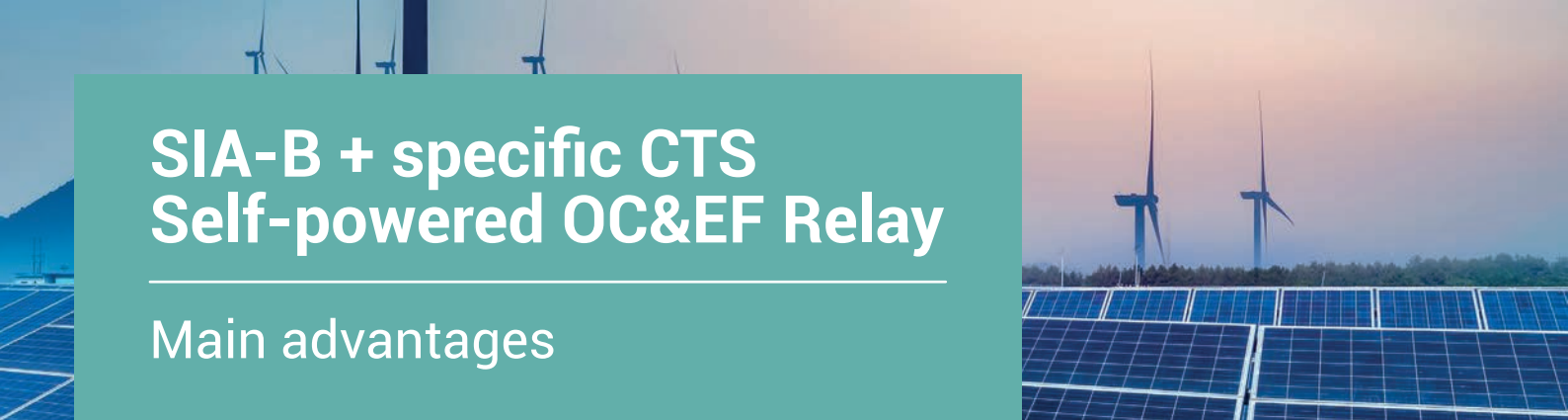
Main advantages

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5

Faster SOTF and Compact Size:

- » Self powering levels:
 - > Single phase: $0.8 \times I_n$.
 - > Three-phase: $0.4 \times I_n$.
- » SOTF time is stabilized in less than 100 ms.
- » Its compact size makes SIA-B easy to install and its light weight helps the customer to save costs in transport.
- » The installation and subsequent maintenance of external batteries is eliminated. The operating costs of the centre are reduced.



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Main advantages

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6

1/3

Display and signaling:

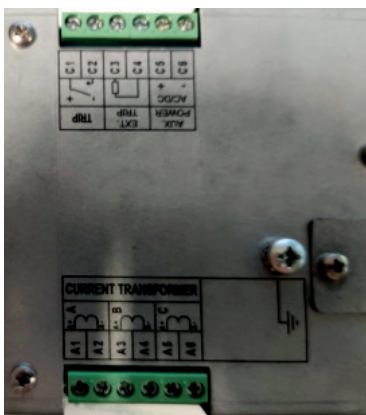
- » All the settings can be configured thanks to a 20x2 LCD and a keyboard (6 keys).
- » On the display, all the currents (phases and neutral) are shown continuously:
 - > 2 LEDS (ON y ALARM).
 - > 2 signaling outputs (optional depending on model).
 - > Magnetic indicator (flag) for trip signaling which maintains its position even when the power supply is lost.

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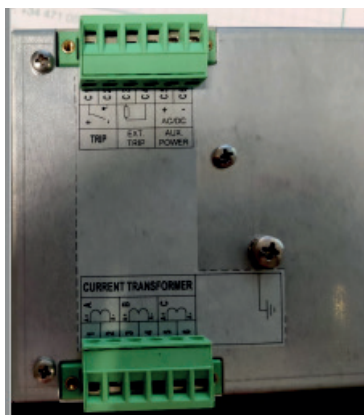
Main advantages

SIA-B ADVANTAGES IN FRONT OF OTHER COMPETITORS

- 6** Easy-handler plug Connectors:
- » Plug connectors (screw type or push-in spring type) instead of fixed connectors.



Fixed
connectors



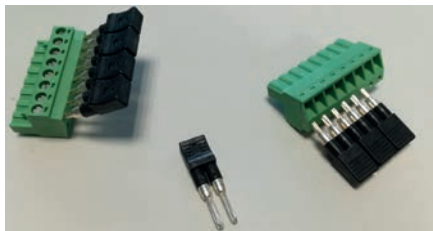
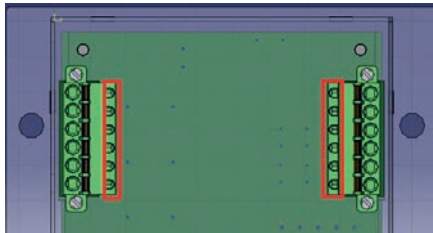
Screw type
plug connectors

SIA-B + specific CTS Self-powered OC&EF Relay

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SIA-B ADVANTAGES IN FRONT OF OTHER COMPETITORS

- 6** **Testing accessory:**
- » This accessory make the connectors shortcircuitable.
 - » They are connected inside the available holes in the unpluggable connectors.



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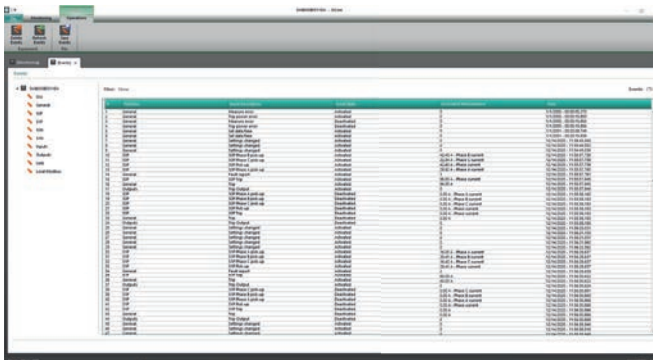
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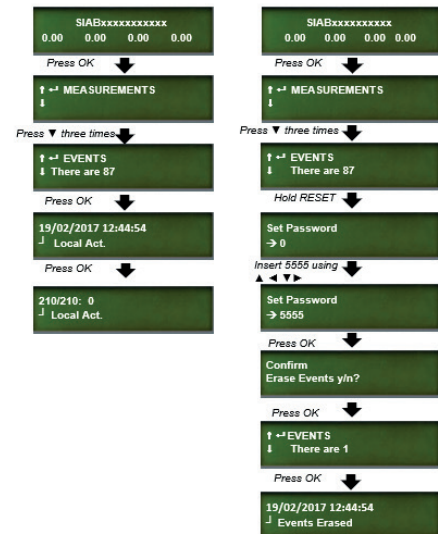
7

Events and Fault Reports available:

- » Even without power supply maintaining being saved in non-volatile RAM memory.
- » Date and time thanks to its internal RTC (Real Time Clock):
 - > Up to 100 Events and 4 fault reports (saved in cyclic format FIFO-First In First Out).
 - > Events during the fault (up to 24 events in each report).



Event	Date	Time	Value	Unit	Comment
1	19/02/2017	12:44:54	Local Act.		
2	19/02/2017	12:44:54	Local Act.		
3	19/02/2017	12:44:54	Local Act.		
4	19/02/2017	12:44:54	Local Act.		
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98	19/02/2017	12:44:54	Local Act.		
99	19/02/2017	12:44:54	Local Act.		
100	19/02/2017	12:44:54	Local Act.		



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Backup Supply:

- » Universal Power Supply 24 to 230 Vac/dc à →
The same reference for all the possibilities.
- » Internal commissioning battery to set the relay and
check events and fault reports. Lithium Battery: 20
years Lifetime.
- » Power supply through KITCOM adaptor, power
bank or connected directly to the laptop through a
standard USB cable.



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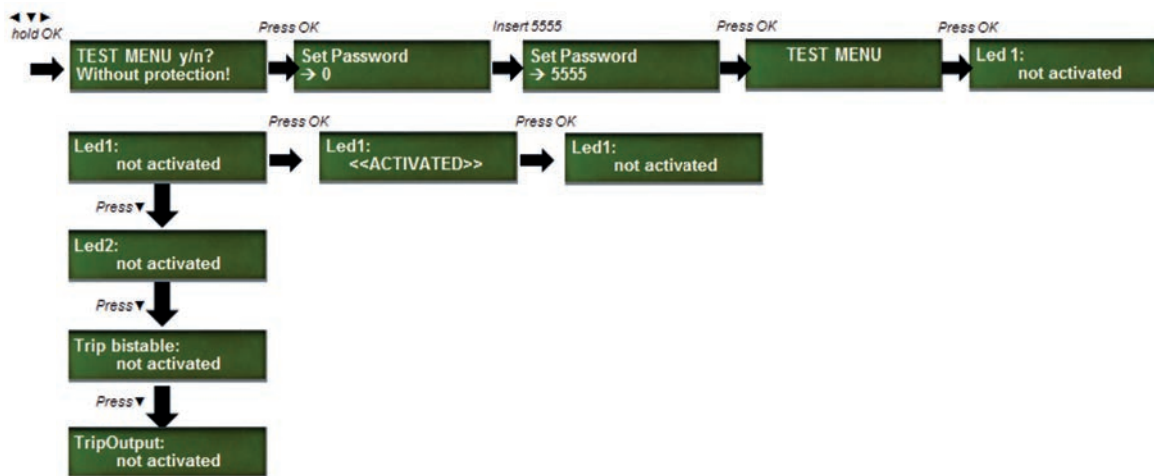
Main advantages

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Test menu:

- » The possibility of using external battery power, together with the possibility of activating the trip contact from the test menu, allows the trip circuit to be tested before the transformation center is powered up.



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Metallic box:

- » High electromagnetic compatibility level (EMC) and wide range of operating temperature.

