

“Novità: un rimedio veramente efficace agli scatti dei differenziali provocati dai transitori”

ARBT – 4

L'interruttore differenziale con richiusura automatica

BREVETTATO

- Autoalimentato
- Diagnostica con segnalazione visiva a LED
- Modo di funzionamento selezionabile
- Possibilità di esclusione della richiusura automatica
- Contatto di segnalazione remota dello “Stato di blocco” (opzionale)
- Adatto al montaggio su barra DIN 35
- Ingombro: 4 moduli + interruttore

L'interruttore differenziale con sistema autorichiedente ARBT-4xx effettua automaticamente la richiusura a seguito di un intervento o scatto dell'interruttore.

I comuni interruttori differenziali scattano non solo in caso di effettivo guasto all'impianto elettrico ma anche in presenza di disturbi momentanei sulla linea causati ad esempio dai **temporali**. In questi casi **l'abitazione o l'impianto non presidiato rimane senza energia elettrica anche per molto tempo**, fino a quando non venga richiuso **manualmente** l'interruttore, con conseguenti danni per congelatori, antifurto, ascensori, impianti di sollevamento acqua e climatizzazione ed anche tutti gli impianti automatici remoti come ripetitori TV o telefonici e sistemi di telerilevamento o trasmissione dati.

Allo scatto dell'interruttore il sistema esegue fino a tre richiusure controllando il tempo di buona condotta dell'impianto per determinare se lo scatto sia dovuto ad un guasto reale o a semplici disturbi.



Differenziale autorichiedente bipolare.



Differenziale autorichiedente tetrapolare.

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INSTRUCTION MANUAL

The **ARBT** devices are RCCBs two and four pole type equipped with an electronic auto-resetting device. The auto-resetting device has an auxiliary contact to indicate that the device is locked.

Supply: The RCCB must be supplied from the top. The auto-resetting device is self-supplied, it doesn't need any auxiliary supply.

Device operation: It is possible to select 1 or 3 automatic resettings, or to disable the RCCB auto-reset by means of a selector switch placed on the front of the **ARBT**. **Moving the selector to '0' will light-up the LOCKED red LED. In this mode the automatic reclosure is disabled so after a trip the RCCB remains in OFF state.**

When the RCCB trips due to a temporary fault (e.g. over-voltage caused by a lightning) or a permanent fault (e.g. earth fault) the **ARBT** will try to restore the supply making a RCCB reclosure. In case of a permanent fault, after making the selected number of reclosures, the **ARBT** goes into **LOCKED** mode, signalling the permanent fault by means of **LOCKED** red LED and changeover contact on the top.

After the first RCCB trip, **ARBT** performs the reclosure immediately. If there is no new trip of the RCCB within 16 seconds from the reclosure (i.e. it was a temporary fault), the device goes back to the waiting state, ready to perform a new reclosure in case of a new breaker trip.

If a second trip occurs within 16 seconds from the first reclosure (i.e. permanent fault) **ARBT** normally goes into the **LOCKED** mode, unless the "**3 resettings**" mode has been selected. In this case **ARBT** performs two more trials of reclosure before going into the **LOCKED** mode.

On the front of the **ARBT** there are 3 signalling LEDs that show device state:

SUPPLY (green) : the power supply is present.

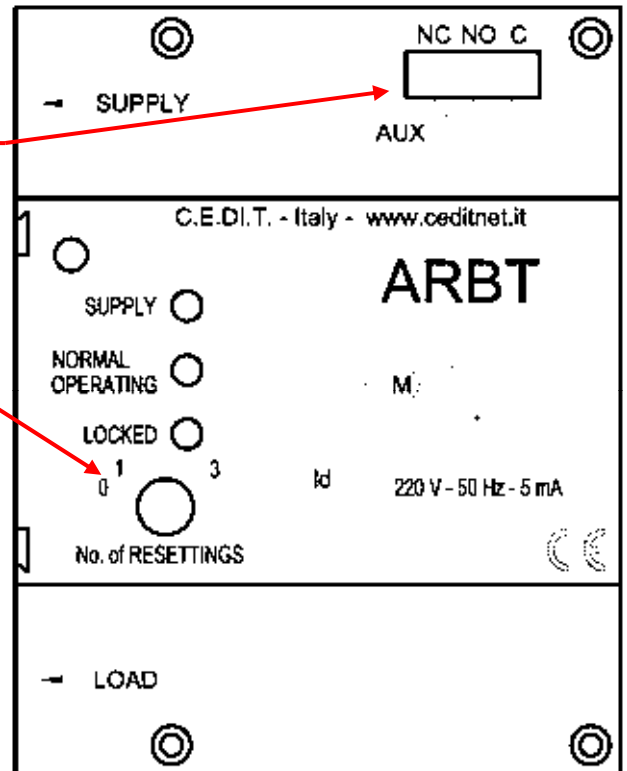
NORMAL OPERATING (green): normal operation (waiting for RCCB trip to perform a reclosure).

LOCKED (red): no auto-reclosure (means "**0 resettings**" selected or **permanent fault present**).

NOTE: the LEDs concern the **ARBT** device only and don't give any information about the RCCB state.

The **ARBT** motor resets the RCCB in about 4 seconds.

In case of a permanent fault, the user must contact a qualified technician to eliminate the reason that has caused the fault. The technician must disconnect the supply by the upstream MCB. After the fault finding, the technician restores the supply by the upstream MCB and set the **ARBT** on **1 or 3 automatic resettings** to reset the RCCB.



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TECHNICAL SPECIFICATIONS



Power supply	230 Vac – 50/60 Hz
Type of supply	1 phase + neutral (from coupled RCCB)
Maximum power requested	2 VA
Selectable modes	No reclosure, 1 reclosure, 3 reclosures
Time of reclosing	3 seconds
Time to reset the reclosure counter	20 seconds
Optical signalling	Power, Normal Operation, Locked
Electrical signalling	Changeover contact “LOCKED”
Contact rating	Switching capability: 60W - max 230 V / 1A
Residual current circuit breaker type	RCCB “DINWAY” brand of 2 and 4 pole in different current ratings and different current trip level.
Coupling	In factory only
Enclosure	Standard Modular for DIN rail 35mm; 4 modules + RCCB
Protection from moving parts	Enclosure totally closed and transparent cover on lever
Connections	Screw terminals up to 2,5mmq
Range of temperature	from 0°C to +50°C