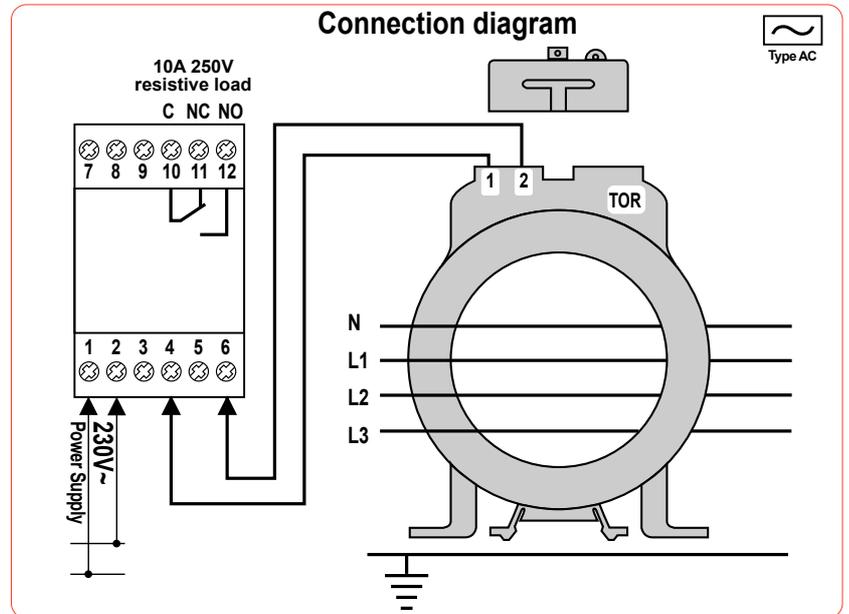


EARTH LEAKAGE RELAYS MRCD3S



TECHNICAL CHARACTERISTICS

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT, IT, and TNS systems. They provide the protection required against indirect contacts, (complementary protection against direct contacts) and against the risk of fire (as the low currents through the earth are not enough for to let the magnetothermic device intervene).

All cables of a single or three phase system, including the neutral where present, must cross the toroid which is the point of residual current, the device activates when it detects defective insulation which is indicated when the vectorial sum of the current carrying cables results in a differential figure.

Current adjustment is selectable by means a minidip situated on the upper part (under the cover) of the instrument (3 parameters) as well as the time delay adjustment (5 parameters).

Output relay is a change-over contact.

The RESET is manual by means a button situated on front of instrument; or cutting the power supply.

TEST button is also situated on front of the instrument.

Sealable front. The TEST and RESET buttons are accessible with sealed front window also.

The presence on label of the symbol  means that the instrument is a differential type AC, not a unique device for protection against the direct contacts.

Auxiliary power supply	230V+/-10% 40/60Hz		
Insulation class	II		
Protection class in front	IP40		
Protection class	IP20		
Burden	1.5W		
Max temperature	55°C		
Isolation test	2,kV a 50Hz for 1 min (1kV for the measurement circuit)		
Signalling Led	Fault	Led Rosso	Working relay, over-limits after the time delay
Signalling Led	On	Led Verde	Device correctly supplied
Push	Reset		Reset of anomaly
Push	Test		Test for control of the correct functions
Output	one change-over contact NC C NO 10A 250V Output relay NOT in active safety, as in case of absence of voltage it is impossible to restore the earth leakage relay.		
Standards	EN 60947-2 / B EN 61010-1		
Asymmetric circuit	Wires: lenght max 20m, section min. 1.5mmq The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal. In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present). The neutral cable must not connected to the earth after the toroid		
Temperature operating	0°C +55°C		
Temperature of storage	-20°C +80°C		
Dimensions	3 DIN modules		

TECHNICAL CHARACTERISTICS

These current transformers are for applications using Earth Leakage Relays. They consist of a high quality magnetic core which detects fault currents, even of very low values.

The connection toroid-earth leakage relay must be effected with shielded cables in the following cases:

- a) Differential threshold < 100mA
 - b) Distances of toroid > 10m
 - c) Signal cable installed at less than 30cm from the power cables
- It is advisable and, in critical situations, obligatory:
- a) Make a plait with the connection cables toroid-relay
 - b) The section of the cables must be not less than 1mmsquare) and their length cannot exceed 20m
 - c) The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal

In order that the measurement of the toroid is correct, it is necessary:

- a) Put the cables in the center of the toroid
- b) The toroid must be not positioned in proximity of a curve zone of the cables that cross it
- c) Use a toroid with an internal diameter at least double the diameter of the cable or of the plait of cables.
- d) In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid
- e) The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).

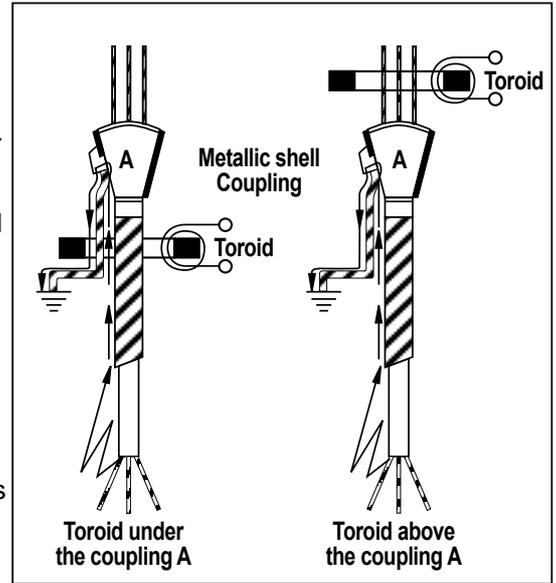
The neutral cable must not connected to the earth after the toroid

- f) In case that the protected line has a metallic protection, it must be connected to the earth, after the toroid

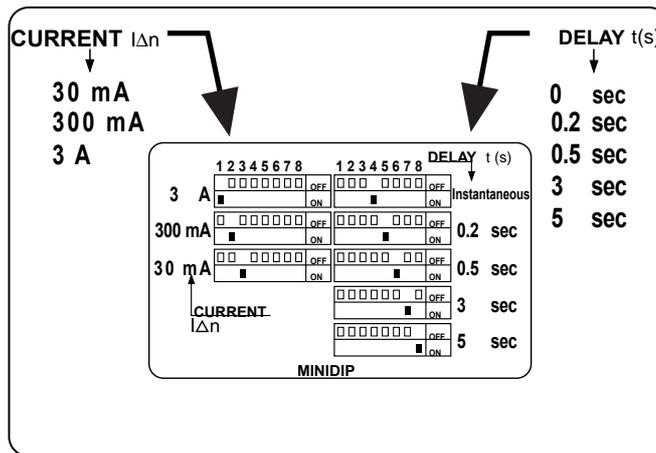
In case of use of split core toroids, be sure, before to close them that the contact surfaces of the core are perfectly cleaned and that the fixing screws are very well fixed.

Toroidal ratio 50/0,1 – Number of turns: 500

Terminal covers included

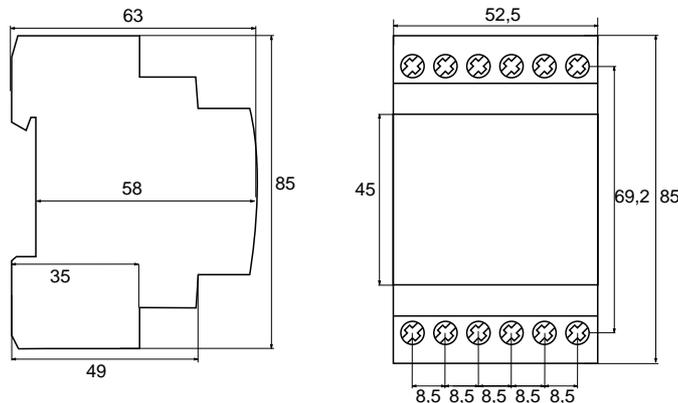


Current adjustment and the time delay adjustment



During the adjustments, the relay must be NOT connects with the auxiliary supply

Dimensions in mm



Weight: 0.26kg

**MRCD3 RS
EARTH LEAKAGE RELAY (3A)
WITH ROTARY SWITCHES
DIN RAIL MOUNTING**



Designed and
manufactured entirely
in Italy

SPECIFICATIONS

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT and TNS systems. They provide the protection required against indirect contacts, (complementary protection against direct contacts) and against the risk of fire (as the low currents through the earth are not enough for to let the magnetothermic device intervene).

All cables of a single or three phase system, including the neutral where present, must cross the toroid which is the point of residual current, the device activates when it detects defective insulation which is indicated when the vectorial sum of the current carrying cables results in a differential figure.

Current adjustment is selectable by means a selector situated on the front of the instrument (12 parameters) as well as the time delay adjustment (12 parameters).

Output relay is a change-over contact.

The RESET is manual by means a button situated on front of instrument; or cutting the power supply.

TEST button is also situated on front of the instrument.

Sealable front. The TEST and RESET buttons are accessible with sealed front window also.

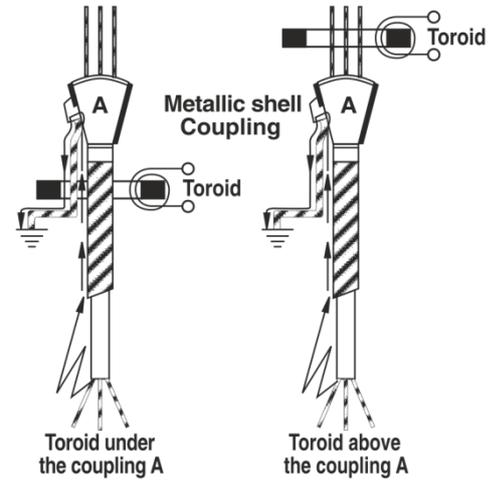


The presence on label of the symbol means that the instrument is a differential type A, not a unique device for protection against the direct contacts..

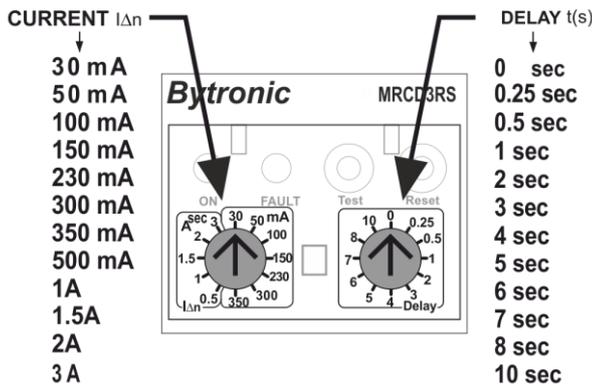
▪ AUXILIARY POWER SUPPLY	230V+/-10% 40/60Hz		
▪ BURDEN	1.5 W		
▪ INSULATION CLASS	II		
▪ PROTECTION CLASS IN FRONT	IP40		
▪ PROTECTION CLASS	IP20		
▪ MAX TEMPERATURE	+55°C		
▪ ISOLATION TEST	2 kV a 50Hz for 1 min (1kV for the measurement circuit)		
▪ SIGNALLING LED	Fault	Led Red	Working relay, over-limitis after the time delay
	On	Led Green	Device correctly supplied
▪ PUSH BUTTONS	Reset		Reset of anomaly
	Test		Test for control of the correct functions
▪ OUTPUT	one change-over contact NC C NO 10A 250V Output relay NOT in active safety, as in case of adsence of voltage it is impossible to restore the earth leakage relay		
▪ STANDARDS	EN 60947-2/B EN 61010-1		
▪ AMMETRIC CIRCUIT	Wires: length max 20m, section min. 1.5mmq		
The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal.			
In very critical cases it is necessary to install a ferromagnetic sleeve around the cables inside the toroid			
The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).			
The neutral cable must not connected to the earth after the toroid.			
▪ TEMPERATURE	Working	-10°C ÷ +55°C	
	Storing	-25°C ÷ +70°C	
▪ DIMENSIONS/WEIGHT	3 DIN modules / 0.26 kg		

- The connection toroid-earth leakage relay must be effected with shielded cables in the following cases:
 - a) Differential threshold < 100mA
 - b) Distances of toroid > 10m
 - c) Signal cable installed at less than 30cm from the power cables
- It is advisable and, in critical situations, obligatory:
 - a) Make a plait with the connection cables toroid-relay
 - b) The section of the cables must be not less than 1mmsquare) and their lenght cannot exceed 20m
 - c) The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal.
- In order that the measurement of the toroid is correct, it is necessary:
 - a) Put the cables in the center of the toroid
 - b) The toroid must be not positioned in proximity of a curve zone of the cables that cross it
 - c) Use a toroid with an internal diameter at least double the diameter of the cable or of the plait of cables.
 - d) In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid
 - e) The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).

The neutral cable must not connected to the earth after the toroid
 - f) In case that the protected line has a metallic protection, it must be connected to the earth, after the toroid.
- In case of use of split core toroids, be sure, before to close them that the contact surfaces of the core are perfectly cleaned and that the fixing screws are very well fixed.
- Toroidal ratio 50/0,1 – Number of turns: 500



CURRENT ADJUSTMENT AND THE TIME DELAY ADJUSTMENT



During the adjustments, the relay must be NOT connected with the auxiliary supply

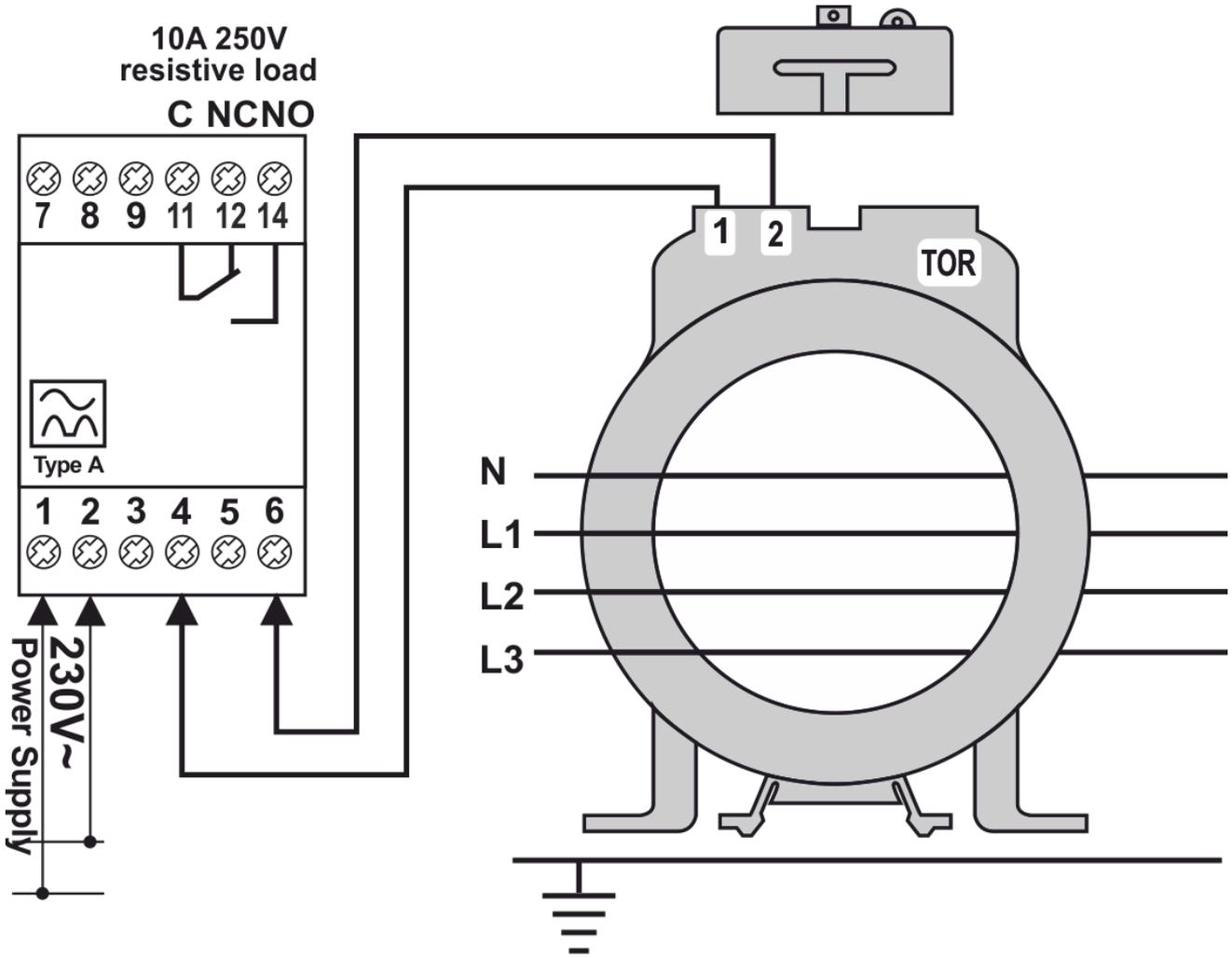


This guide is for information only.

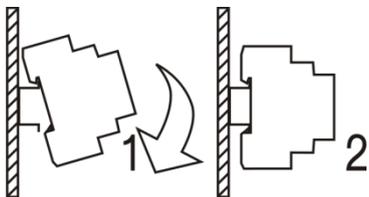
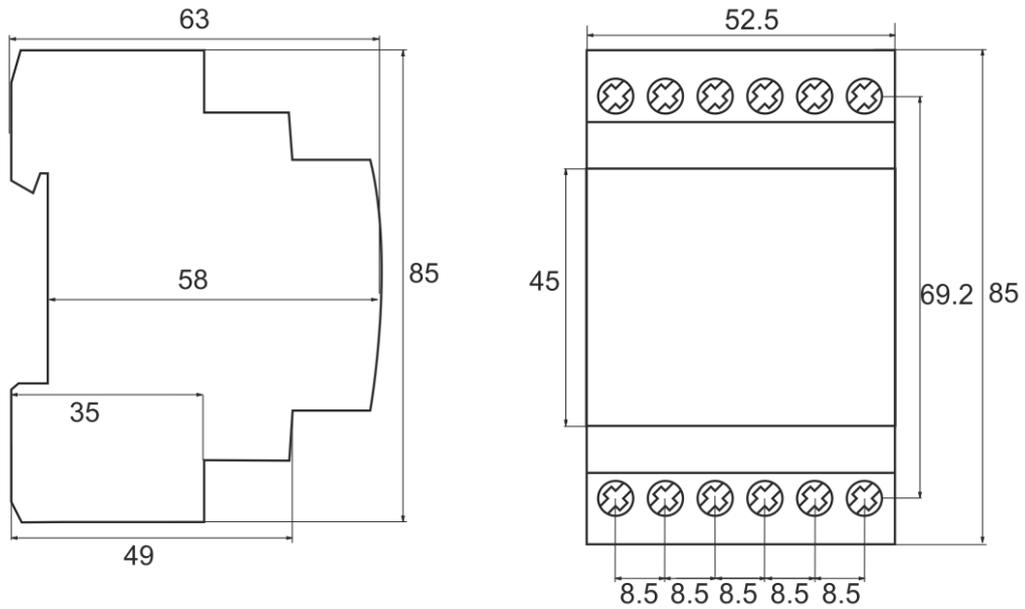
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The manufacturer, including his international representatives or agents, do not accept any liability for any incidental damage, directly or indirectly, to people or properties through the use of his products.

CONNECTION DIAGRAM



DIMESIONS



**MRC30 RS
EARTH LEAKAGE RELAY (30A)
WITH ROTARY SWITCHES
DIN RAIL MOUNTING**



Designed and
manufactured entirely
in Italy

SPECIFICATIONS

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT and TNS systems. They provide the protection required against indirect contacts, (complementary protection against direct contacts) and against the risk of fire (as the low currents through the earth are not enough for to let the magnetothermic device intervene).

All cables of a single or three phase system, including the neutral where present, must cross the toroid which is the point of residual current, the device activates when it detects defective insulation which is indicated when the vectorial sum of the current carrying cables results in a differential figure.

Current adjustment is selectable by means a selector situated on the front of the instrument (12 parameters) as well as the time delay adjustment (12 parameters).

Output relay is a change-over contact.

The RESET is manual by means a button situated on front of instrument; or cutting the power supply.

TEST button is also situated on front of the instrument.

Sealable front. The TEST and RESET buttons are accessible with sealed front window also.

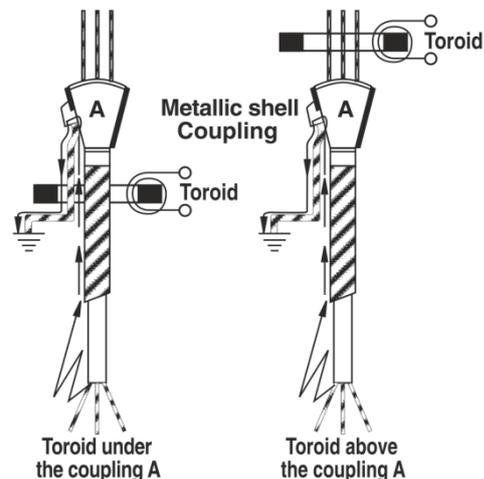


The presence on label of the symbol means that the instrument is a differential type A, not a unique device for protection against the direct contacts..

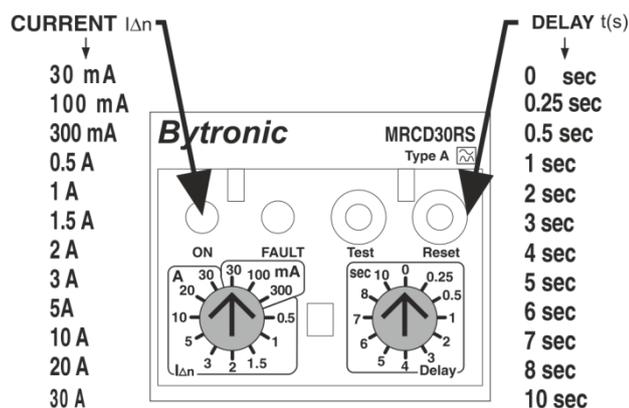
▪ AUXILIARY POWER SUPPLY	230V+/-10% 40/60Hz		
▪ BURDEN	1.5 W		
▪ INSULATION CLASS	II		
▪ PROTECTION CLASS IN FRONT	IP40		
▪ PROTECTION CLASS	IP20		
▪ MAX TEMPERATURE	+55°C		
▪ ISOLATION TEST	2 kV a 50Hz for 1 min (1kV for the measurement circuit)		
▪ SIGNALLING LED	Fault	Led Red	Working relay, over-limitis after the time delay
	On	Led Green	Device correctly supplied
▪ PUSH BUTTONS	Reset		Reset of anomaly
	Test		Test for control of the correct functions
▪ OUTPUT	one change-over contact NC C NO 10A 250V Output relay NOT in active safety, as in case of adsence of voltage it is impossible to restore the earth leakage relay		
▪ STANDARDS	EN 60947-2/B EN 61010-1		
▪ AMMETRIC CIRCUIT	Wires: length max 20m, section min. 1.5mmq		
The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal.			
In very critical cases it is necessary to install a ferromagnetic sleeve around the cables inside the toroid			
The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).			
The neutral cable must not connected to the earth after the toroid.			
▪ TEMPERATURE	Working	-10°C ÷ +55°C	
	Storing	-25°C ÷ +70°C	
▪ DIMENSIONS/WEIGHT	3 DIN modules / 0.26 kg		

- The connection toroid-earth leakage relay must be effected with shielded cables in the following cases:
 - a) Differential threshold < 100mA
 - b) Distances of toroid > 10m
 - c) Signal cable installed at less than 30cm from the power cables
- It is advisable and, in critical situations, obligatory:
 - a) Make a plait with the connection cables toroid-relay
 - b) The section of the cables must be not less than 1mmsquare) and their lenght cannot exceed 20m
 - c) The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal.
- In order that the measurement of the toroid is correct, it is necessary:
 - a) Put the cables in the center of the toroid
 - b) The toroid must be not positioned in proximity of a curve zone of the cables that cross it
 - c) Use a toroid with an internal diameter at least double the diameter of the cable or of the plait of cables.
 - d) In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid
 - e) The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).

The neutral cable must not connected to the earth after the toroid
 - f) In case that the protected line has a metallic protection, it must be connected to the earth, after the toroid.
- In case of use of split core toroids, be sure, before to close them that the contact surfaces of the core are perfectly cleaned and that the fixing screws are very well fixed.
- Toroidal ratio 50/0,1 – Number of turns: 500



CURRENT ADJUSTMENT AND THE TIME DELAY ADJUSTMENT



During the adjustments, the relay must be NOT connected with the auxiliary supply

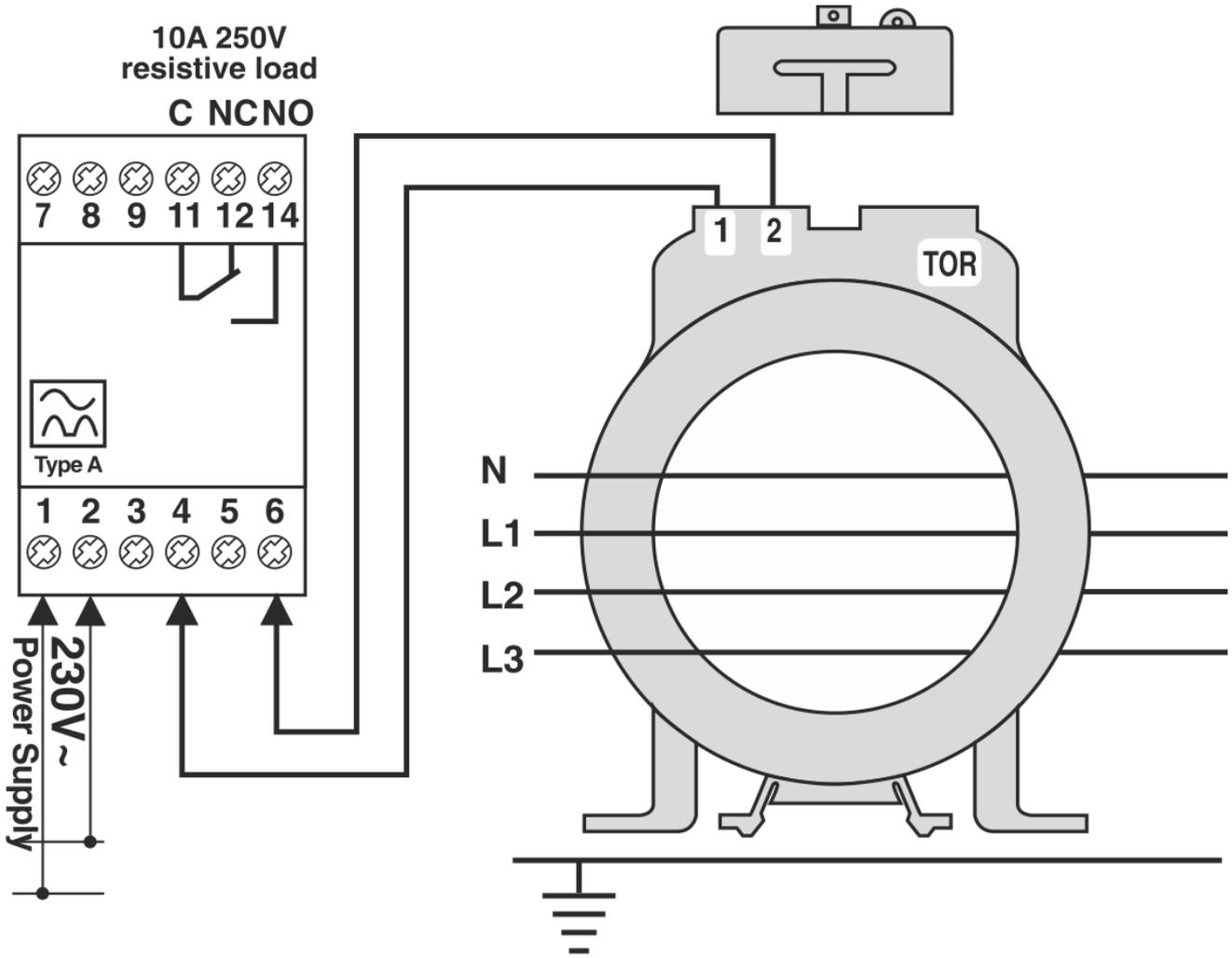


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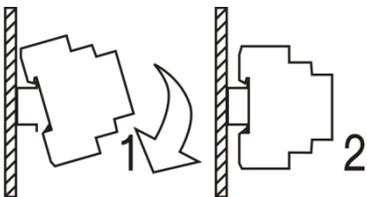
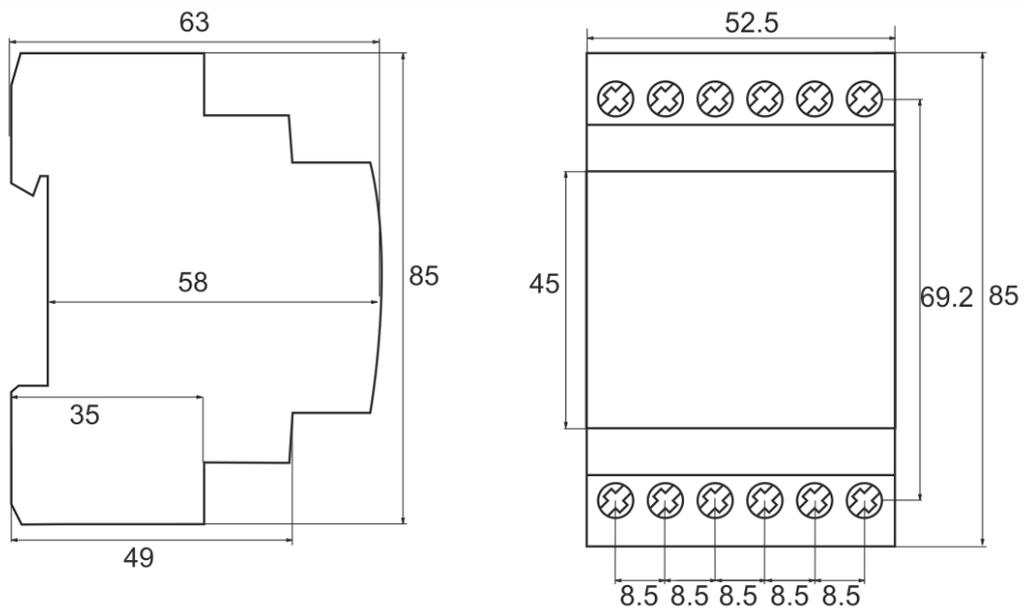
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CONNECTION DIAGRAM

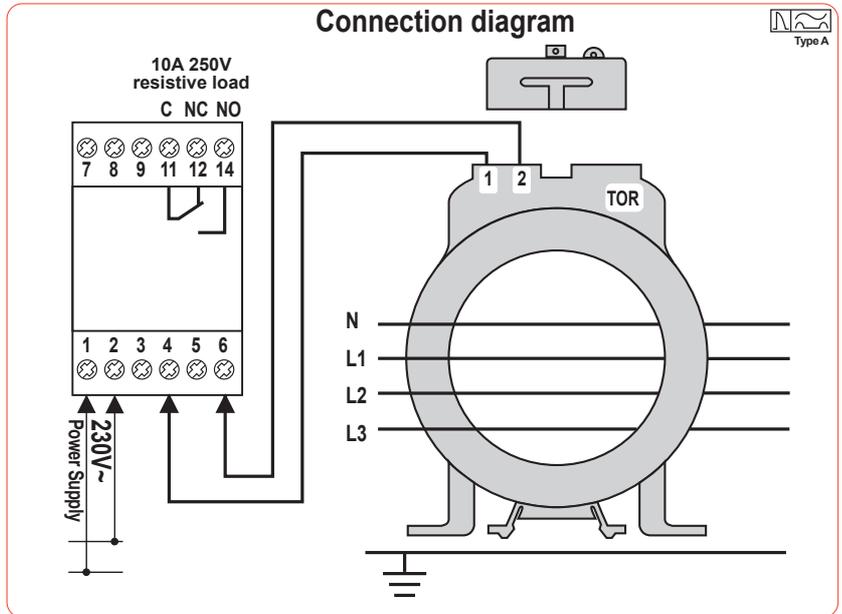


DIMESIONS



EARTH LEAKAGE RELAYS

Art. MRCD30DS



TECHNICAL CHARACTERISTICS

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT and TNS systems. They provide the protection required against indirect contacts, (complementary protection against direct contacts) and against the risk of fire (as the low currents through the earth are not enough for to let the magnetothermic device intervene).

All cables of a single or three phase system, including the neutral where present, must cross the toroid which is the point of residual current, the device activates when it detects defective insulation which is indicated when the vectorial sum of the current carrying cables results in a differential figure.

Current adjustment is selectable by means a minidip situated on the front of the instrument (6 parameters) as well as the time delay adjustment (5 parameters).

Output relay is a change-over contact.

The RESET is manual by means a button situated on front of instrument; or cutting the power supply.

TEST button is also situated on front of the instrument.

Sealable front. The TEST and RESET buttons are accessible with sealed front window also.

The presence on label of the symbol  means that the instrument is a differential type AC, not a unique device for protection against the direct contacts.

Auxiliary power supply	230V+/-10% 40/60Hz		
Insulation class	II		
Protection class in front	IP40		
Protection class	IP20		
Burden	1.5W		
Max temperature	55°C		
Isolation test	2,kV a 50Hz for 1 min (1kV for the measurement circuit)		
Signalling Led	Fault	Led Rosso	Working relay, over-limits after the time delay
Signalling Led	On	Led Verde	Device correctly supplied
Push	Reset		Reset of anomaly
Push	Test		Test for control of the correct functions
Output	one change-over contact NC C NO 10A 250V Output relay NOT in active safety, as in case of absence of voltage it is impossible to restore the earth leakage relay.		
Standards	EN 60947-2 / B EN 61010-1		
Asymmetric circuit	Wires: lenght max 20m, section min. 1.5mmq The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal. In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present). The neutral cable must not connected to the earth after the toroid		
Temperature operating	-10°C +55°C		
Temperature of storage	-20°C +80°C		
Dimensions	3 DIN modules		

TECHNICAL CHARACTERISTICS

These current transformers are for applications using Earth Leakage Relays. They consist of a high quality magnetic core which detects fault currents, even of very low values.

The connection toroid-earth leakage relay must be effected with shielded cables in the following cases:

- a) Differential threshold < 100mA
 - b) Distances of toroid > 10m
 - c) Signal cable installed at less than 30cm from the power cables
- It is advisable and, in critical situations, obligatory:
- a) Make a plait with the connection cables toroid-relay
 - b) The section of the cables must be not less than 1mmsquare) and their length cannot exceed 20m
 - c) The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal

In order that the measurement of the toroid is correct, it is necessary:

- a) Put the cables in the center of the toroid
- b) The toroid must be not positioned in proximity of a curve zone of the cables that cross it
- c) Use a toroid with an internal diameter at least double the diameter of the cable or of the plait of cables.
- d) In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid
- e) The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).

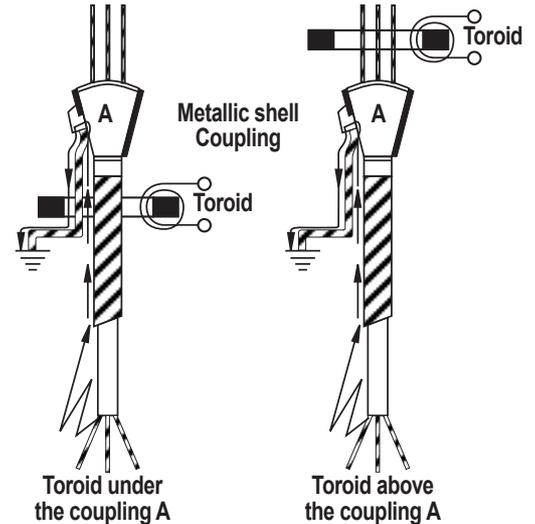
The neutral cable must not connected to the earth after the toroid

- f) In case that the protected line has a metallic protection, it must be connected to the earth, after the toroid

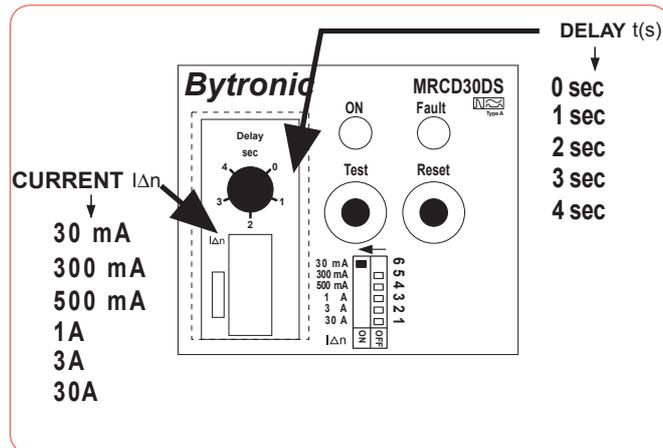
In case of use of split core toroids, be sure, before to close them that the contact surfaces of the core are perfectly cleaned and that the fixing screws are very well fixed.

Toroidal ratio 50/0,1 – Number of turns: 500

Terminal covers included

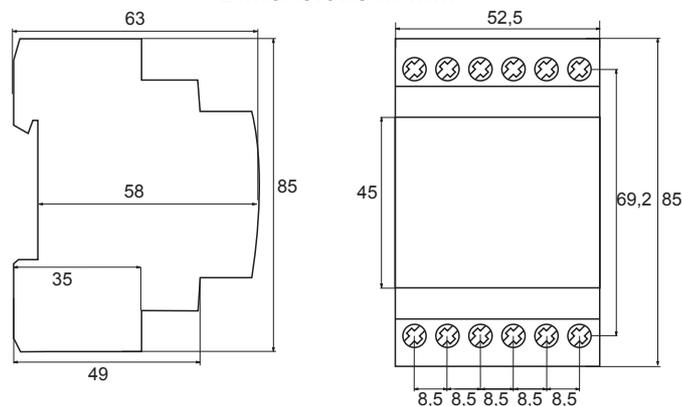


Current adjustment and the time delay adjustment



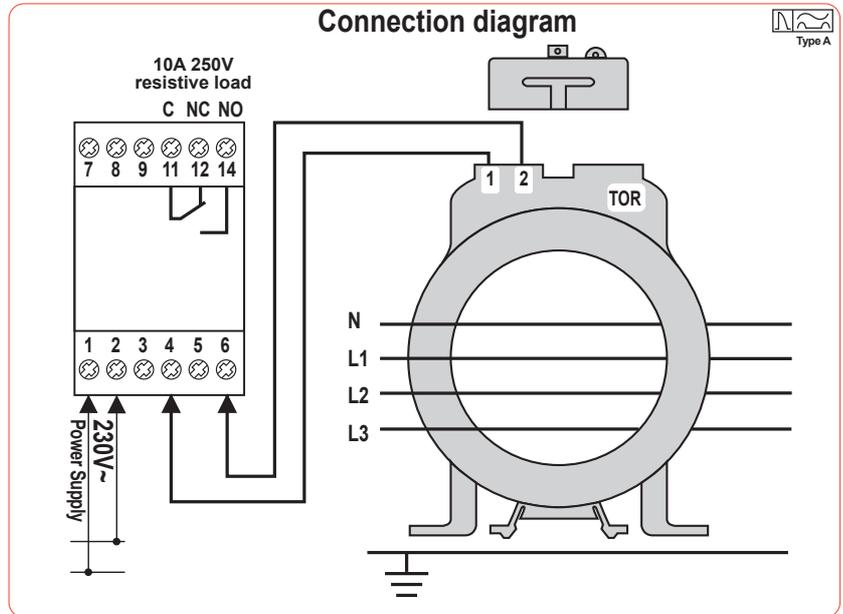
During the adjustments, the relay must be NOT connects with the auxiliary supply

Dimensions in mm



Weight: 0,26kg

EARTH LEAKAGE RELAYS Art. MRCD50DS



TECHNICAL CHARACTERISTICS

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT and TNS systems. They provide the protection required against indirect contacts, (complementary protection against direct contacts) and against the risk of fire (as the low currents through the earth are not enough for to let the magnetothermic device intervene).

All cables of a single or three phase system, including the neutral where present, must cross the toroid which is the point of residual current, the device activates when it detects defective insulation which is indicated when the vectorial sum of the current carrying cables results in a differential figure.

Current adjustment is selectable by means a minidip situated on the front of the instrument (6 parameters) as well as the time delay adjustment (5 parameters).

Output relay is a change-over contact.

The RESET is manual by means a button situated on front of instrument; or cutting the power supply.

TEST button is also situated on front of the instrument.

Sealable front. The TEST and RESET buttons are accessible with sealed front window also.

The presence on label of the symbol  means that the instrument is a differential type AC, not a unique device for protection against the direct contacts.

Auxiliary power supply	230V+/-10% 40/60Hz		
Insulation class	II		
Protection class in front	IP40		
Protection class	IP20		
Burden	1.5W		
Max temperature	55°C		
Isolation test	2,kV a 50Hz for 1 min (1kV for the measurement circuit)		
Signalling Led	Fault	Led Rosso	Working relay, over-limits after the time delay
Signalling Led	On	Led Verde	Device correctly supplied
Push	Reset		Reset of anomaly
Push	Test		Test for control of the correct functions
Output	one change-over contact NC C NO 10A 250V Output relay NOT in active safety, as in case of absence of voltage it is impossible to restore the earth leakage relay.		
Standards	EN 60947-2 / B CEI EN 61010-1		
Asymmetric circuit	Wires: lenght max 20m, section min. 1.5mmq The cables cannot be installed in proximity of electromechanical components or power cables that can be source of magnetic fields and perturbation of measurement signal. In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid The toroid must be crossed, in the same sense by all the active cables of the line, neutral included (if present). The neutral cable must not connected to the earth after the toroid		
Temperature operating	-10°C +55°C		
Temperature of storage	-20°C +80°C		
Dimensions	3 DIN modules		

TECHNICAL CHARACTERISTICS

These current transformers are for applications using Earth Leakage Relays. They consist of a high quality magnetic core which detects fault currents, even of very low values.

The connection toroid-earth leakage relay must be effected with shielded cables in the following cases:

- a) Differential threshold < 100mA
 - b) Distances of toroid > 10m
 - c) Signal cable installed at less than 30cm from the power cables
- It is advisable and, in critical situations, obligatory:
- a) Make a plait with the connection cables toroid-relay
 - b) The section of the cables must be not less than 1mmsquare) and their length cannot exceed 20m
 - c) The cables cannot be installed in proximity of electromechanical components or power cables that can be source a of magnetic fields and perturbation of measurement signal

In order that the measurement of the toroid is correct, it is necessary:

- a) Put the cables in the center of the toroid
- b) The toroid must be not positioned in proximity of a curve zone of the cables that cross it
- c) Use a toroid with an internal diameter at least double the diameter of the cable or of the plait of cables.
- d) In very critical cases it is necessary to install a ferromagnetic sleeve around the cables in the intern of the toroid
- e) The toroid must be crossed ,in the same sense by all the active cables of the line, neutral included (if present).

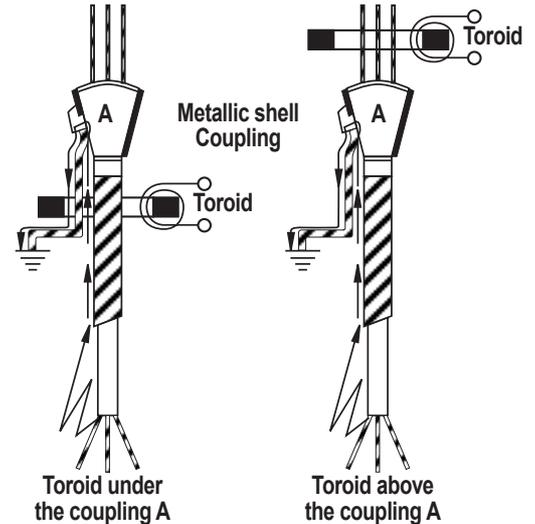
The neutral cable must not connected to the earth after the toroid

- f) In case that the protected line has a metallic protection, it must be connected to the earth, after the toroid

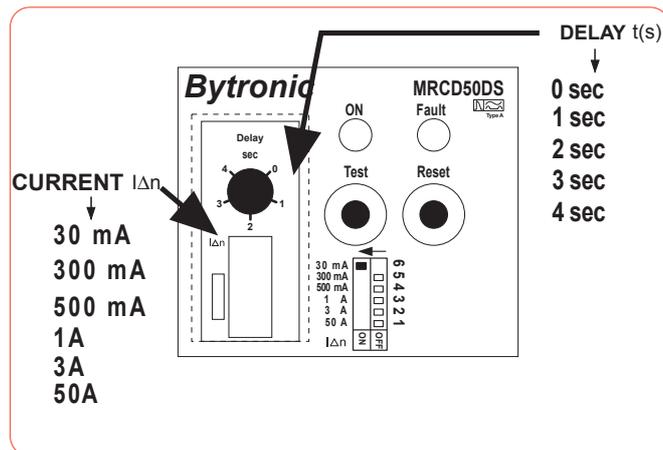
In case of use of split core toroids, be sure, before to close them that the contact surfaces of the core are perfectly cleaned and that the fixing screws are very well fixed.

Toroidal ratio 50/0,1 – Number of turns: 500

Terminal covers included

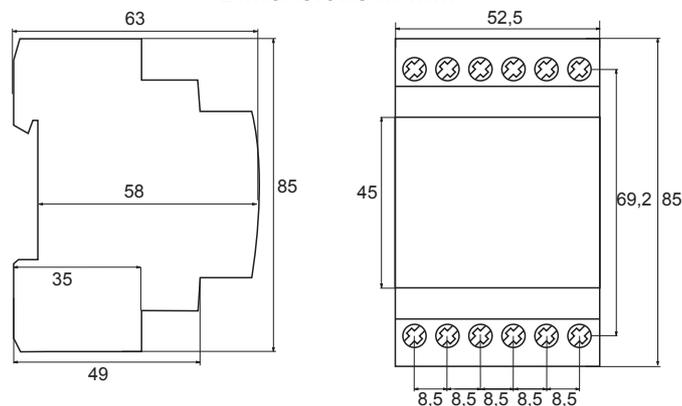


Current adjustment and the time delay adjustment



During the adjustments, the relay must be NOT connects with the auxiliary supply

Dimensions in mm



Weight: 0,26kg

By4850
EARTH LEAKAGE RELAY
TYPE “A”
“NC” or “NO” MODEL
DIN RAIL MOUNTING



Designed and
 manufactured entirely
 in Italy

▪ TRIP CURRENT ADJUSTMENT (I Δ N)	30, 100, 300, 500 mA 1, 3 A
▪ AUXILIARY POWER SUPPLY	230V(\pm 10%)
▪ FREQUENCY	40 ÷ 60 Hz
▪ TEMPERATURE	working: -5°C ÷ +50°C storage: -20°C ÷ +70°C
▪ MAX CONSUMPTION	<1 W (EuP)
▪ TIME DELAY ADJUSTMENT	0 - 5 sec
▪ OUTPUT, one change-over contact	10A, 250V, N.C (for NC model), N.O (for NO model).
▪ INSULATION TEST	2kV a 50Hz for 1 min (relay-aux supply)
▪ PROTECTION CLASS	IP 20 on terminals - IP40 on front
▪ INSULATION CLASS	II
▪ SIGNALLING LED	<ul style="list-style-type: none"> ▪ RESET (push) reset of anomaly ▪ TEST (push): test for the control of the correct functions ▪ FAULT (RED led): working relay, over-limits after the time delay ▪ ON (GREEN led): device correctly supplied
▪ AMMETRIC CIRCUIT	Wires: lenght max 10 m, section min. 1 mm ² twist wire to avoid interferences
▪ DIMENSIONS	1 DIN module
▪ STANDARDS	EN60947-2/B, EN61010-1

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT and TNS systems.

They provide the protection required against indirect contacts, (complementary protection against direct contacts) and against the risk of fire (as the low currents through the earth are not enough to let the magnetothermic device intervene).

The earth leakage relay is considered as **additional protection** therefore not a unique device for protection against the direct contacts.

All cables of a single or three phase system, including the neutral, must be fed through the toroid which is the point of residual current. The device activates when it detects defective insulation which is indicated when the vectorial sum of the current carrying cables results in a differential figure.

The intervention is guaranteed intervention in case of sinusoidal alternated currents and for specified pulsating continuous currents with or without superimposed continuous component which is suddenly or gradually applied.



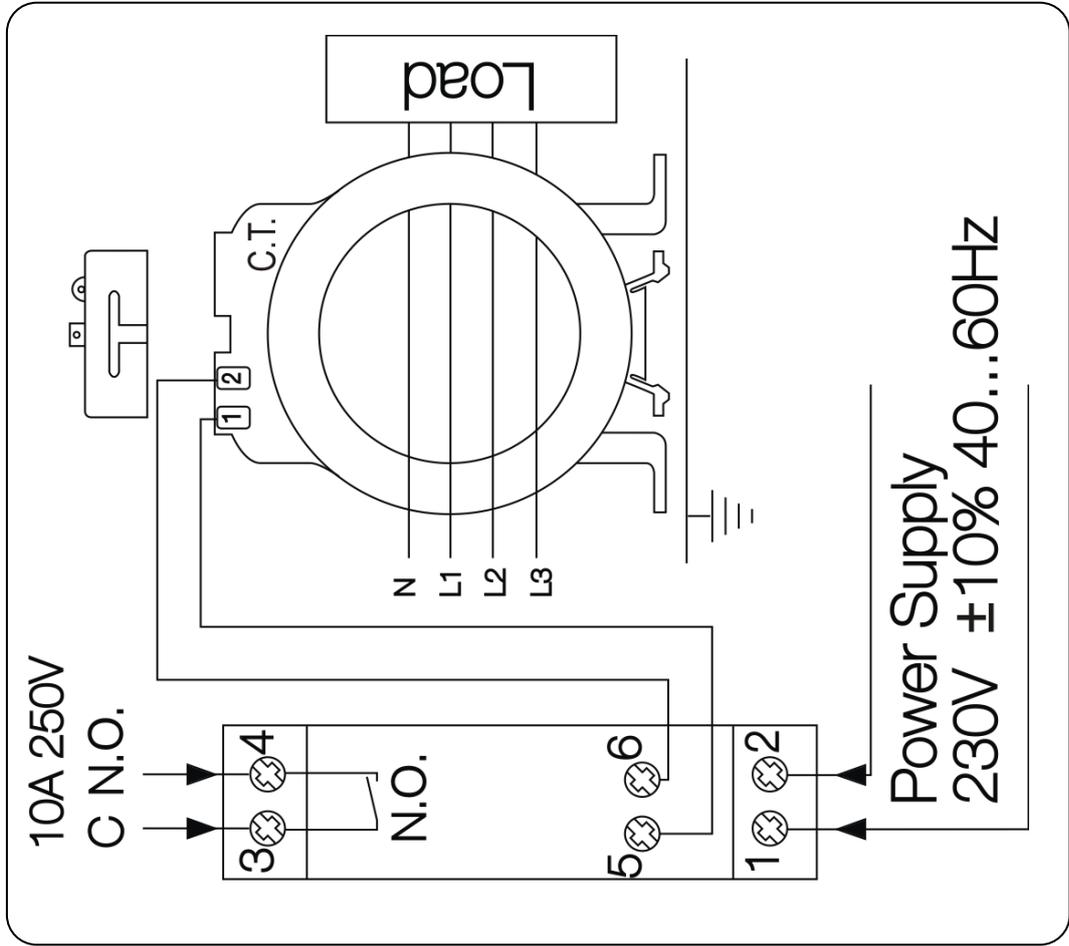
NOTE1

Earth leakage relay intervenes also after a loss of connection with the toroidal current transformer. It is possible to effect the remote reset simply by removing and applying again the auxiliary voltage supply.

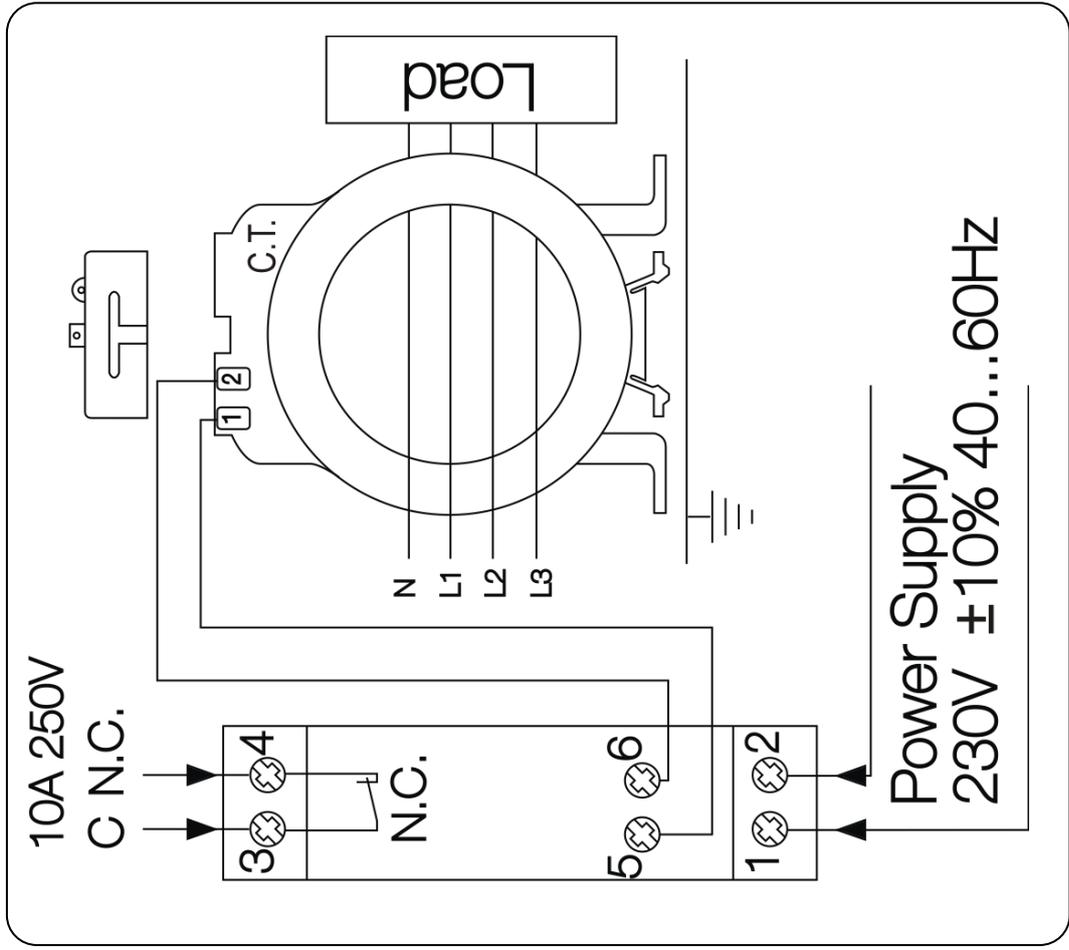
The **Test** and **Reset** buttons are accessible from the front with sealed front window also.

NOTE2

These earth leakage relays are developed to be used with toroids having ratio 50/0.1.

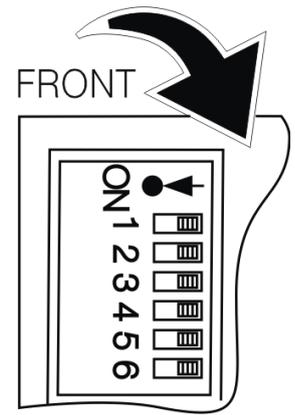
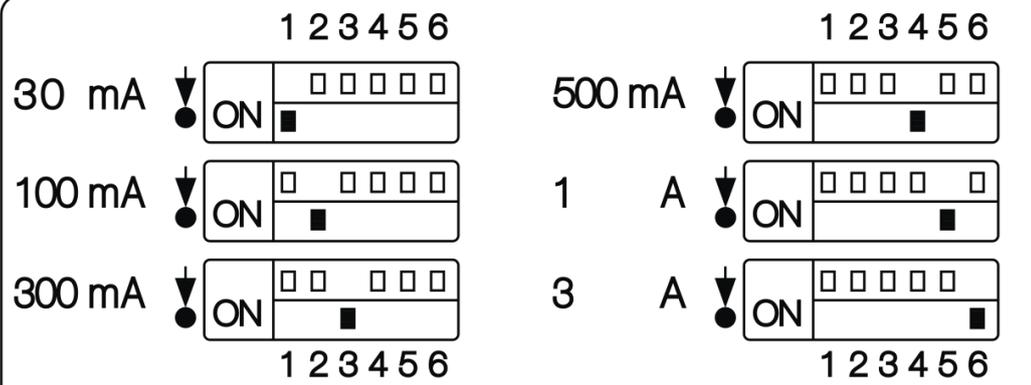


NO MODEL

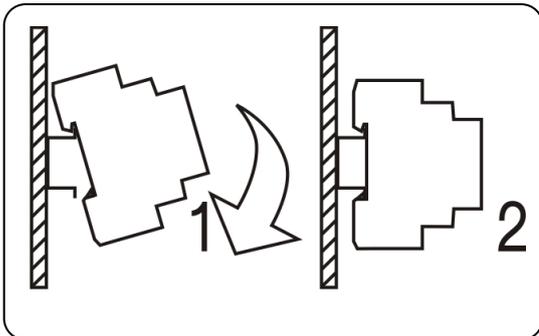


NC MODEL

I Δ n



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CE



By7750
EARTH LEAKAGE RELAY
TYPE "A"
PANEL MOUNTING



Designed and
 manufactured entirely
 in Italy

▪ TRIP CURRENT ADJUSTMENT (IΔN)	30, 200, 300, 500 mA 1, 1.5, 2, 3, 5, 10, 15, 30 A
▪ TIME DELAY ADJUSTMENT	0-1-2-3-4 sec
▪ AUXILIARY POWER SUPPLY	230V(±10%)
▪ FREQUENCY	40 ÷ 60 Hz
▪ MAX CONSUMPTION	1.5W
▪ TEMPERATURE	working: -5°C ÷ +50°C storage: -20°C ÷ +70°C
▪ OUTPUT, one relay with two change-over contacts	NC – C – NO, 8A 250V
▪ INSULATION TEST	2kV a 50Hz for 1 min (relay-aux supply)
▪ PROTECTION CLASS	IP 20 on terminals - IP40 on front
▪ INSULATION CLASS	II
▪ SIGNALLING LED	<ul style="list-style-type: none"> ▪ RESET (push) reset of anomaly ▪ TEST (push): test for the control of the correct functions ▪ FAULT (RED led): working relay, over-limits after the time delay ▪ ON (GREEN led): device correctly supplied
▪ AMMETRIC CIRCUIT	Wires: lenght max 20 m, section min. 1 mm ² twist wire to avoid interferences
▪ DIMENSIONS	48mmx48mm, depth 88mm (terminals included)
▪ STANDARDS	EN60947-2/B, EN61010-1

Earth Leakage control and monitoring consist of a Current Relay and associated Summation Toroidal Current Transformer which are used in LV networks with alternating current in TT and TNS systems.

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The intervention is guaranteed intervention in case of sinusoidal alternated currents and for specified pulsating continuous currents with or without superimposed continuous component which is suddenly or gradually applied.

Time delay/current/trimmer adjustment are protected by a sealable transparent cover.



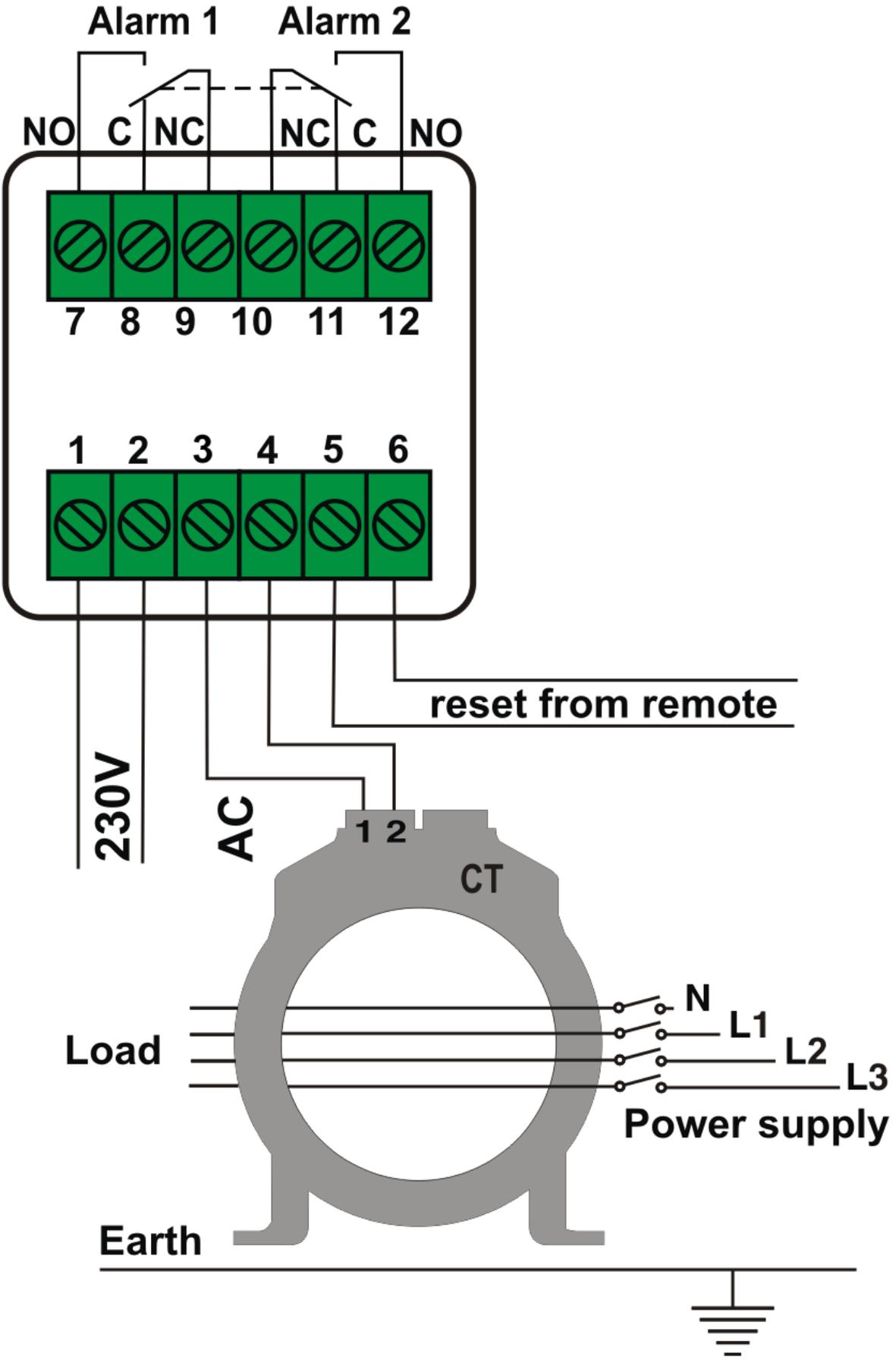
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Earth leakage relay intervenes also after a loss of connection with the toroidal current transformer. It is possible to effect the remote reset simply by removing and applying again the auxiliary voltage supply.

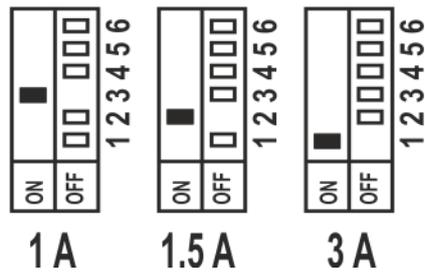
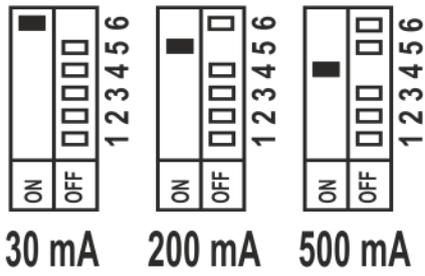
The **Test** and **Reset** buttons are accessible from the front with sealed front window also.

NOTE2

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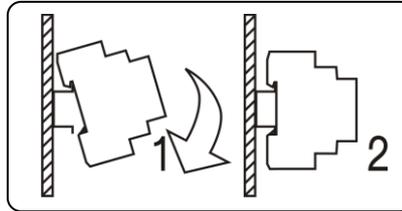


CURRENT SELECTION



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M4=2 Nm

