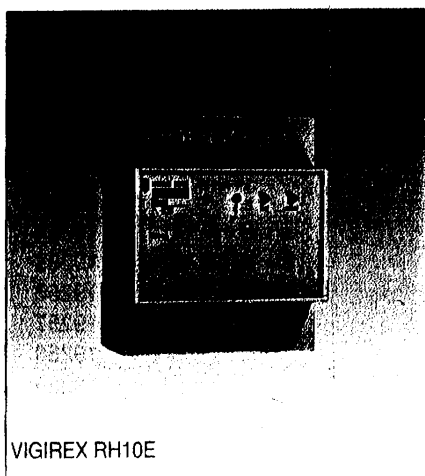


VIGIREX RH10E/RH240E/RH248E residual current relays

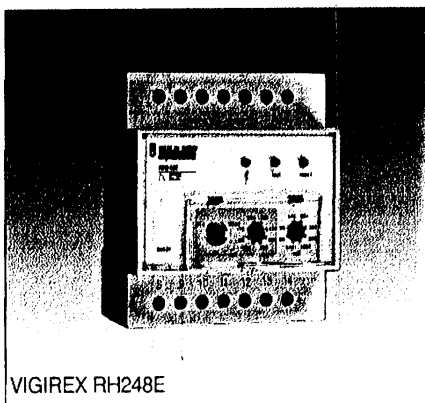
716-8639
(= 50451)
716 8640
(= 50454)

30mA - 25A time delayed

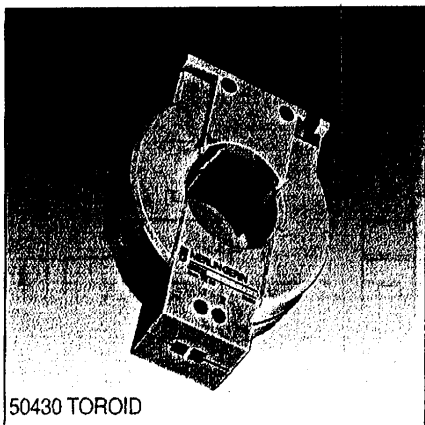
716 8652
(= 50460)



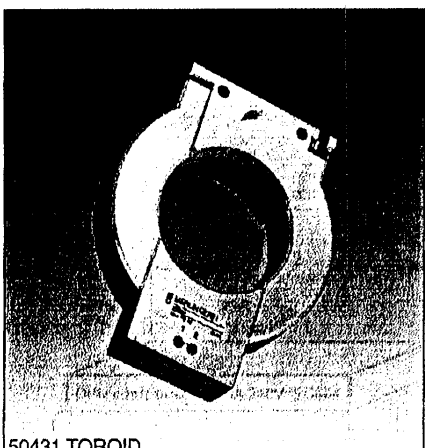
VIGIREX RH10E



VIGIREX RH248E



50430 TOROID



50431 TOROID

Application

Protection of personnel, electrical equipment and distribution systems.

Description

These residual current devices must be used in conjunction with toroidal core balanced current transformers. In the event of an earth leakage fault they ensure the opening of the protected circuit by a signal from a changeover contact to the release coil of a circuit breaker or contactor.

They are able to actuate:

- ☐ undervoltage release MN
- ☐ shunt trip MX
- ☐ Reflex remote controlled circuit breakers and switches
- ☐ contactors and impulse relays

Vigirex devices:

- ☐ permanently monitor the toroid-to-relay connection
 - ☐ can be locally or remotely reset.
 - ☐ offer local visual alarm indication.
- All devices are able to give fault indication

output contact:

changes state upon detection of earth leakage fault

unwanted tripping:

Vigirex residual current devices are equipped with a filtering device preventing the risks of unwanted tripping due to transient voltages, (lightning, line disturbances on other equipment...) and transient currents (from high capacitive circuits).

■ **cable capacity:** tunnel terminals cables up to 2.5mm²

Installation

■ on symmetrical DIN-rail horizontal or vertical

■ in Merlin Gerin enclosures

Note: must not be used as the sole means of providing protection against direct contact.

(IEE Regs. 16th edition 412-06-01)

Toroids:

Vigirex RCD relays are used in conjunction with 30 mm or 50 mm internal diameter E type toroidal current transformers separately supplied. They can be mounted on plate or the cable to be protected.

Vigirex RH10E, RH240E and RH248E rcd relay

device	width 9mm	sensitivity IΔn mods.	n°. of settings IΔn	time delay	n°. of settings time delay	auxiliary supply voltages	part n°.
RH10E	8	30mA	1	Nil	0	48-120VDC / 48vAC	50450
RH10E	8	30mA	1	Nil	0	115 / 127vAC	50499
RH10E	8	30mA	1	Nil	0	230vAC	50451
RH10E	8	300mA	1	Nil	0	48-120VDC / 48vAC	50453
RH10E	8	300mA	1	Nil	0	115 / 127vAC	50452
RH10E	8	300mA	1	Nil	0	230vAC	50454
RH248E	8	30mA-25A	24	0-1s	8	48-120VDC / 48vAC	50459
RH248E	8	30mA-25A	24	0-1s	8	115 / 127vAC	50458
RH248E	8	30mA-25A	24	0-1s	8	230vAC	50460
RH240E	8	30-300mA	24	Nil	0	48-120VDC / 48vAC	50456
RH240E	8	30-300mA	24	Nil	0	115 / 127vAC	50455
RH240E	8	30-300mA	24	Nil	0	230vAC	50457

■ **AC voltages** - operating range -15%, +10%

■ **DC voltages** - operating range ± 20%

■ **power consumption** - 5VA max.

■ **temp. range** - -5 to +55 °C

■ **output contact rating** - 240VAC 3A

0.7 pf 220VDC 0.45A, 120VDC 0.65A, 48VDC 2.5A, 24VDC 10A

■ **weight** 3Kg

■ **toroid connection by shielded cable**

Note: Consult Merlin Gerin for details on adjustable settings

toroidal transformers for Vigirex

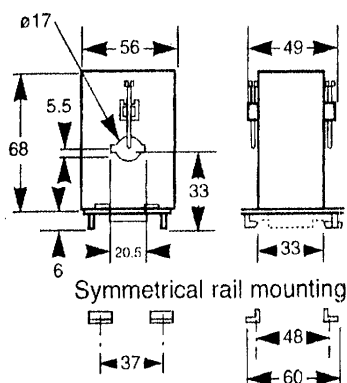
type	internal dia.	part n°.
TE	30mm	50430
PE	50mm	50431

larger sizes and split toroids available - consult us for full range of Vigirex relays and toroids.

■ **dimensions** see page 127

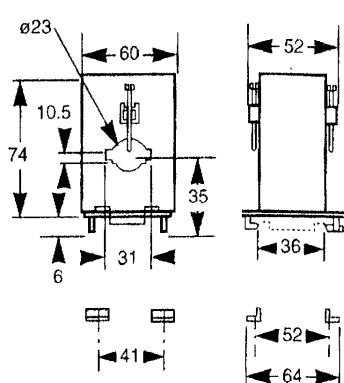
current transformers

Part no. 15567

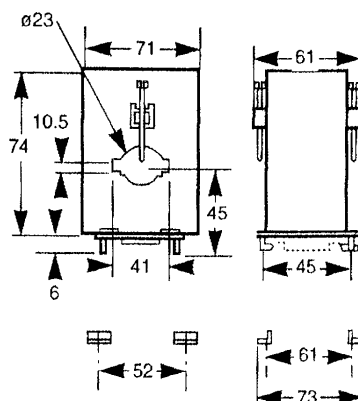


Screw fixing (ø5)

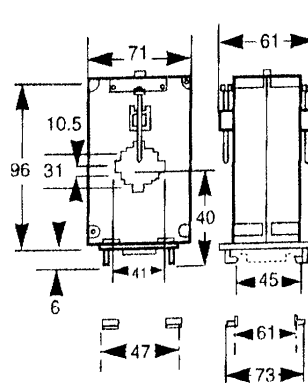
Part no. 15572



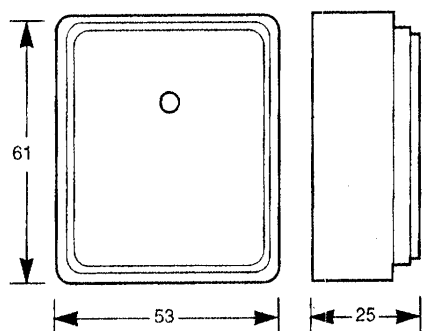
Part no. 15575



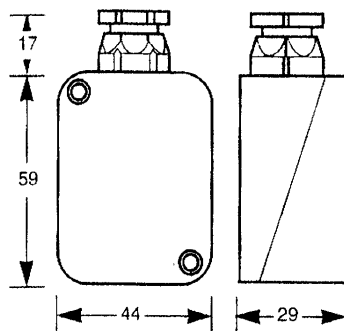
Part no. 15578 to 15580



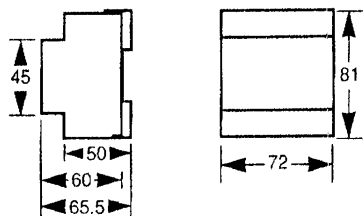
ambient temp probe



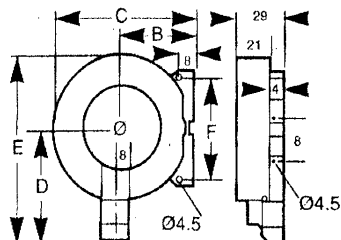
outdoor temp probe



Vigirex RH10E, RH240E, RH248E

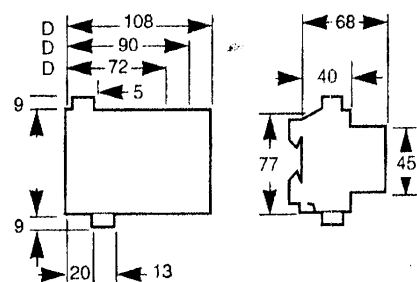


Vigirex toroidal current transformer
type E dia.30and50

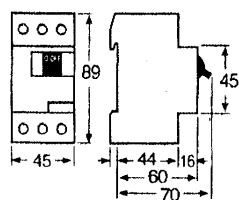


type	$\emptyset$	B	C	D	E	F
TA30	30	31	60	53	82	50
PA50	50	45	87	66	108	60

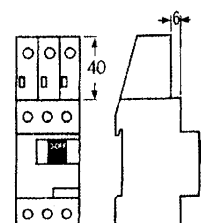
Reflex XC40 remote controlled circuit breakers



P25M motor protection circuit breaker



P25M limiter block



auxiliary contact

releases MX, MN