

THREE PHASE FILTER

100 A



EUROTHERM

**Installation
Instructions**

TECHNICAL DATA

Filter destination	This filter is required to obtain Electromagnetic Compatibility compliance to EN 55011 standard (conducted emission, A class, industrial environment) for following thyristor unit series : TC2001, TC3000, TC3001 when working in Burst (inductive load) or Phase Angle.
Current rating (per phase)	100 A
Nominal voltage	500 Vac line to line (+10% -15%)
Frequency	47 to 63 Hz
Voltage drop across filter	≤ 0.15 V (for 100 A)
Leakage current to earth	≤ 15 mA (for 500 Vac + 10%, 50 Hz) (measured on balanced supply and purely resistive load) This value may be much higher in same cases : <ul style="list-style-type: none">• if the supply is unbalanced• if the protective earth potential is not referenced to the neutral• if the load has a high stray capacitance value with respect to the protective earth.
Cooling	Convection cooling,
Operating temperature	0 to 45°C in vertical position
Storage temperature	- 10°C to 70°C
Operating altitude	2000 m maximum
Operating atmosphere	Non explosive, non corrosive and non conductive.
Pollution	Degree 2 (IEC 664)
Humidity	RH 5% to 95% non condensing.
Dimensions	495 mm x 200 mm x 250 mm
Weight	49.5 kg
Filter Part N°	LA 174937U100
Coding	FILTER / TRI / 100A / 00



Danger !

Wiring must be performed by qualified personnel to work with low voltage electrical equipment.

Before any connection or disconnection, make sure that the cables and wires are insulated from the voltage sources.

For safety reasons, the safety earth cable must be connected before any other connection during wiring and the last cable to be disconnected.

For the installation and wiring safety report to the User Manuals :

TC2001 (part N° HA 174760)

TC3000 (part N° HA 174836)

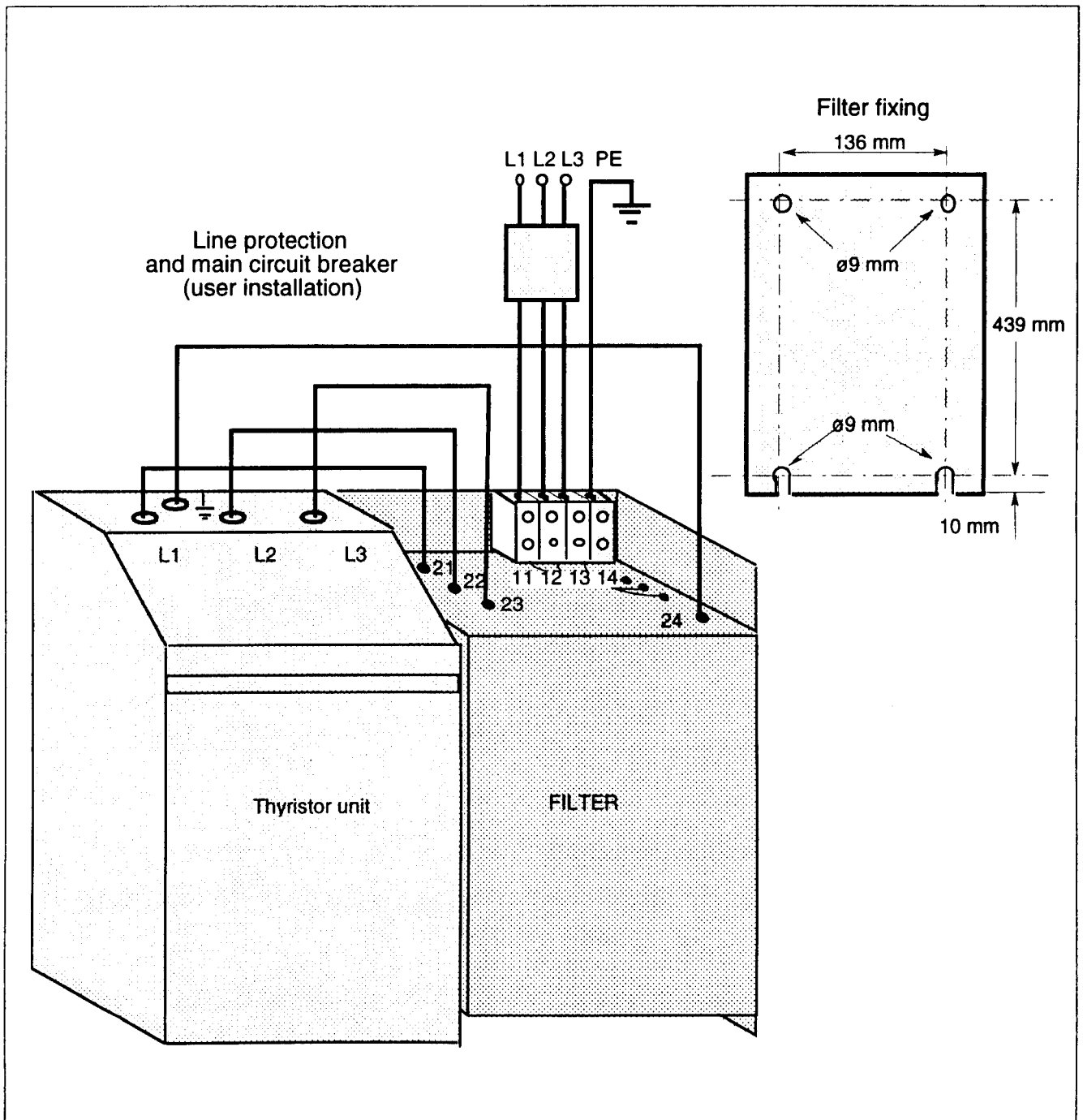
TC3001 (part N° HA 174834)

CONNECTION

- Supply / filter cable : **35 mm²**
- Thyristor unit wiring : bolts **M8** (fuses)

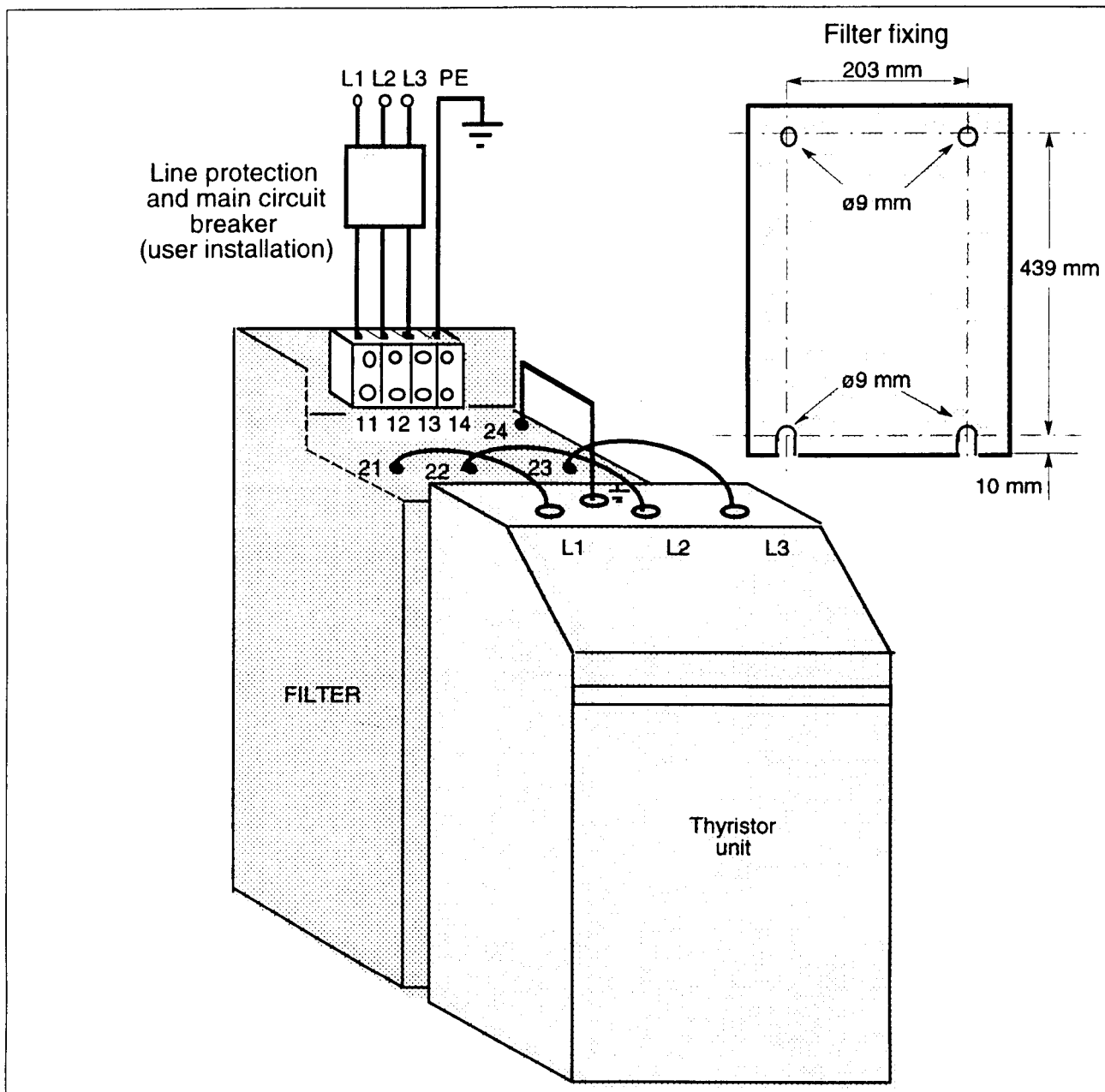
Side by side mounting and Wiring

Thyristor unit and filter bulkhead mounting



Piggy back mounting and Wiring

Thyristor unit mounted on the filter. Filter bulkhead mounting.



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100 A Three-phase Filter
Part N° HA175305 ENG Iss.B

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12/96

