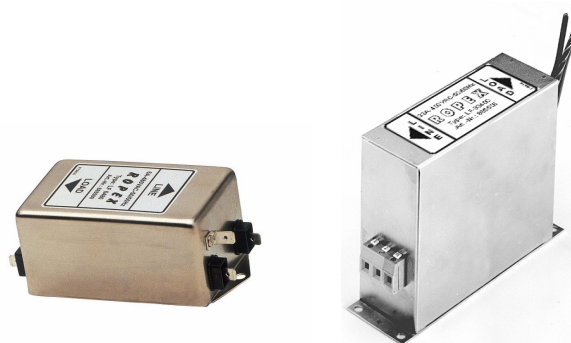


## LF-xx480

GB

## Operating Instructions



To comply with EMC directives – corresponding to EN 50081-1 and EN 50082-2 – RESISTRON and CIRUS control loops must be operated with interference suppression filters.

**! The use of a suitable line filter is part of the standards conformity and a prerequisite of the CE mark.**

These filters damp the reaction of the phase-angle control on the line and protect the controller against system disturbances.

ROPEX line filters are specially optimized for use in RESISTRON and CIRUS control loops. Providing they are installed and wired correctly, they guarantee compliance with the EMC limit values.

Please do not hesitate to contact us if you require design support for applications that are susceptible to extreme loads.

## Technical data

|                                 | LF-06480                                                                                                                                                                                                                         | LF-35480                                                               |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Maximum voltage                 | 480VAC, 50/60Hz                                                                                                                                                                                                                  |                                                                        |
| Continuous current (Ta = +40°C) | 6.0A                                                                                                                                                                                                                             | 35.0A                                                                  |
| Maximum pulse load (Ta = +40°C) |                                                                                                                                                                                                                                  |                                                                        |
| Duty cycle = 60%                | 7.5A                                                                                                                                                                                                                             | 45.0A                                                                  |
| Duty cycle = 40%                | 9.5A                                                                                                                                                                                                                             | 55.0A                                                                  |
| Duty cycle = 20%                | 13.0A                                                                                                                                                                                                                            | 78.0A                                                                  |
| Duty cycle = 11%                | 18.0A                                                                                                                                                                                                                            | 105.0A                                                                 |
| Max. pulsed current (Ta=+40°C)  | 18.0A                                                                                                                                                                                                                            | 105.0A                                                                 |
| Cable connections               | 6.3 x 0.8mm<br>flat connector                                                                                                                                                                                                    | Cable connection terminals<br>Rigid: 0.2...10mm<br>Flexible: 0.2...6mm |
| Approvals                       | EN 133200, EN 60950                                                                                                                                                                                                              |                                                                        |
| Ambient temperature             | -10°C ≤ Ta ≤ +85°C                                                                                                                                                                                                               |                                                                        |
| Derating                        | Specified current values at Ta = +40°C<br>Ta = 0°C: Specified current values x 1.35<br>Ta = +20°C: Specified current values x 1.20<br>Ta = +60°C: Specified current values x 0.75<br>Ta = +80°C: Specified current values x 0.35 |                                                                        |
| Power dissipation               | max. 6W                                                                                                                                                                                                                          | max. 15W                                                               |

## Installation steps

**⚠ Installation and startup may only be performed by suitably trained persons who are familiar with the associated risks and warranty provisions.**

1. Disconnect the supply voltage.
2. Screw the line filter onto a galvanized mounting plate, using sufficient screws to make contact over a large area.
3. Connect the mounting plate to ground potential by means of a grounding cable (cross-section  $\geq 25\text{mm}^2$ , max. 1.5m long).
4. The connecting cable to the control loop on the output side must not be longer than 1.0m, nor must it intersect any other current-conducting cables.

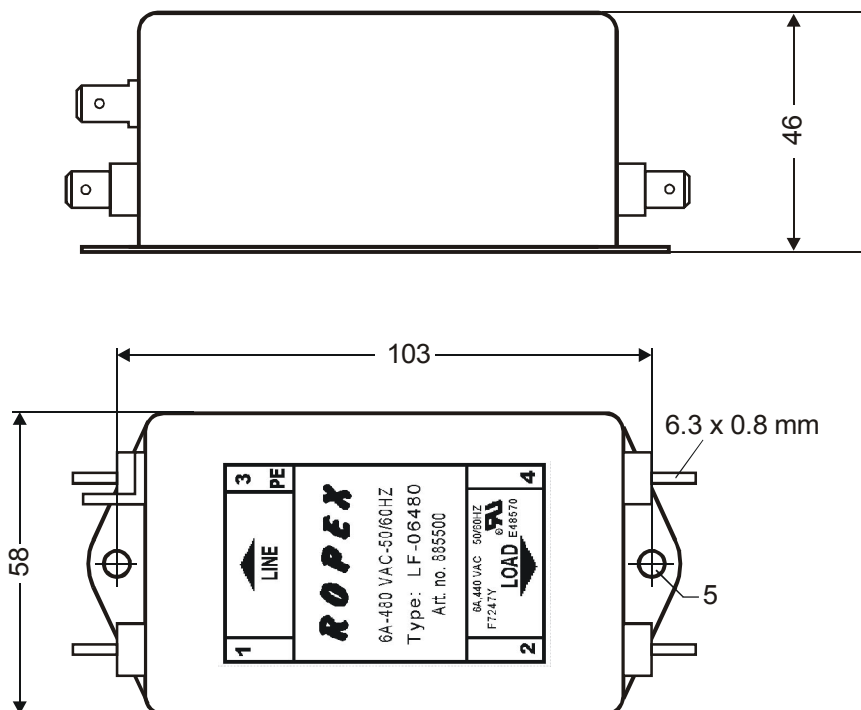
5. The input and output wires of the line filter must not be laid parallel.
6. Please comply with the wiring installation procedure described in the relevant controller documentation (→ "Installation procedure" and "Startup and operation" sections).

**⚠ It is permissible to supply several RESISTRON or CIRUS control loops with a single filter, providing the total current does not exceed the maximum current of the filter.**

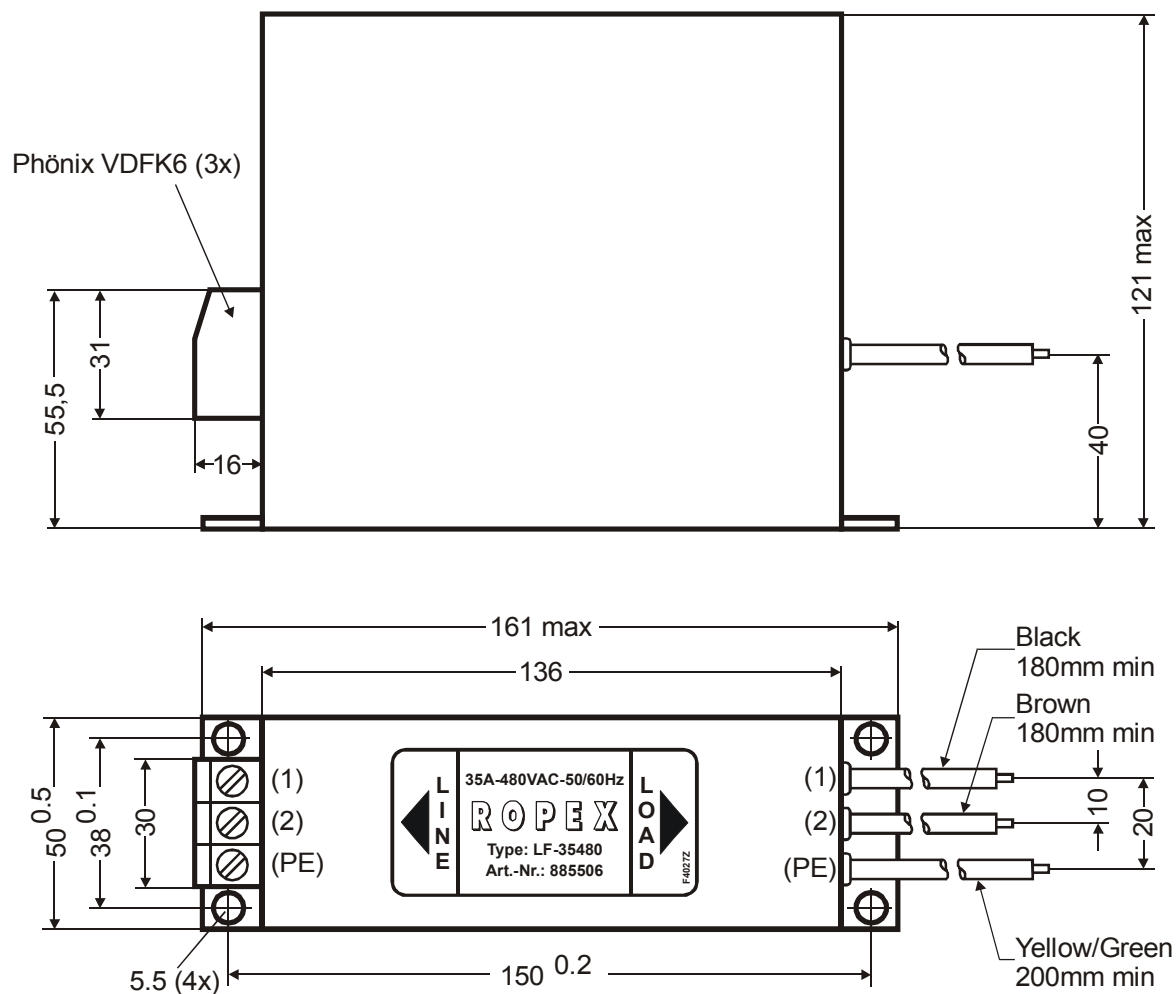
**⚠ The parallel installation of two filters (same type) is permissible when the connecting cables are installed symmetrically. The total current shall not exceed the double maximum current of one filter.**

## Dimensions


### Line filter LF-06480



## Line filter LF-35480



## How to order

|                                                                                     |                                                                                                                                                     |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Line filter LF- . . 480</p> <p>06: Continuous current 6A, 480VAC, Art. No. 885500</p> <p>35: Continuous current 35A, 480VAC, Art. No. 885506</p> |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|