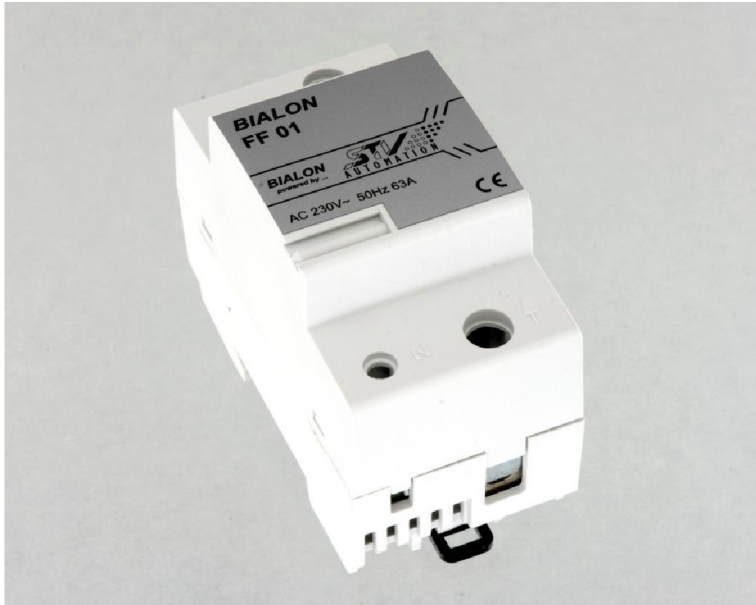


## BIALON FF 01

Band elimination filter for LONWORKS® **Power Line** networks



- Protects against active and passive interference sources
- Separation of neighbouring communication groups
- Prevents transmission beyond site borders
- Extends the maximum transmission range
- Easy installation on top hat rail

The BIALON FF 01 band elimination filter is an important infrastructure component for safe data transmission on LONWORKS® **Power Line** networks. The task performed by these band elimination filters is that of separating signals from different communications groups in order to avoid network node communication beyond the site borders, or to separate different maintenance groups.

Active interference sources, such as incorrectly suppressed electrical appliances can render the use of these band elimination filters ineffective. But also passive interference sources that attenuate signals are isolated from the communication line. The appliances must be connected upstream of the band elimination filter for this purpose.

The band elimination filter is designed for serial installation on a DIN top hat rail as per EN 50022.

### Order details

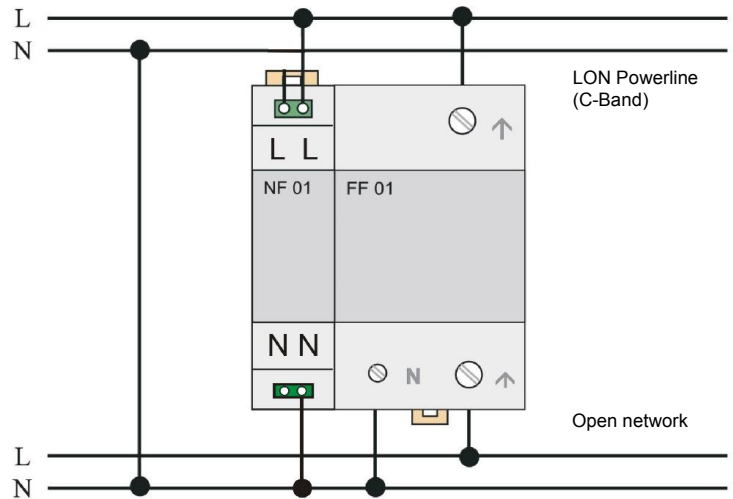
| Description  | Order number |
|--------------|--------------|
| BIALON FF 01 | 095025       |

The band elimination filter should be installed directly downstream of the main fuses, or the residual current circuit breaker, but upstream of the circuits required for signal transmission.

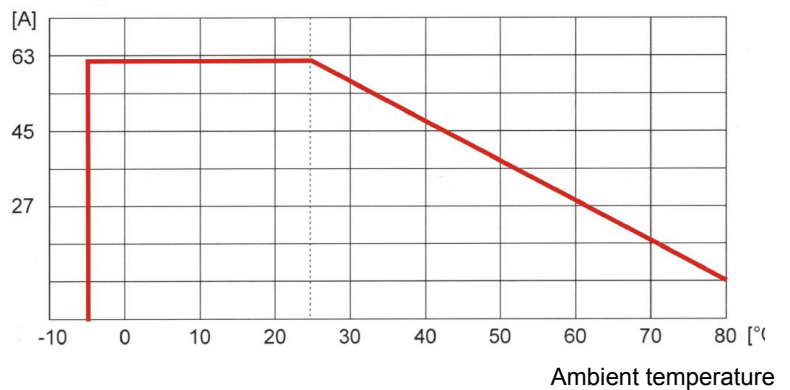
Because the filter effect of the band elimination filter is directional, it is important to ensure connection on the right side. A band elimination filter is required for each phase. If the maximum permissible current load of 63 A is insufficient, multiple band elimination filters can be wired in parallel.

The band elimination filter's effect can be enhanced by additionally installing the BIALON NF 01 attenuation filter (Order no. 095026).

The band elimination filter's permissible rated current is temperature-dependent. The dependency of the maximum rated current  $I_{rated}$  on the ambient temperature is shown in figure 1.



Permissible rated current



#### Technical data

|                              |   |
|------------------------------|---|
| Grid voltage                 | max. 230 V AC $\pm 10\%$  |
| Grid frequency               | 50 Hz   |
| Rated current                | max. 63 A   |
| Phase connection             | Terminals max. 25 mm <sup>2</sup>   |
| Neutral conductor connection | Terminals max. 2.5 mm <sup>2</sup>  |
| Ambient temperature          | -5 ... 45°C   |
| Housing                      | as per EN 50022 for installation on DIN support rails, 2.5 separation units (45 mm) |
| Degree of protection         | IP 20 as per DIN EN 60529   |