

**WAVEFILTER 3A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Simple radio noise suppression in the cabinet thanks to WAVEFILTER**

The WAVEFILTER series eliminates the need for time-consuming bolting processes of mains filters. The filters are snapped onto TS 35 and connected to the device whose noise is to be suppressed. The two-stage, 22.5 mm wide WAVEFILTER, in 1 A, 3 A, 6 A and 10 A versions, offers high attenuation at all voltage levels from 5 V, 12 V, 24 V, 48 V, 60 V, 120 V up to 250 V.

**General ordering data**

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| Version         | WAVESERIES, Surge protection, Surge protection, Attenuation at 100 MHz: 30 dB |
| Order No.       | <a href="#">8614780000</a>                                                    |
| Type            | WAVEFILTER 3A                                                                 |
| GTIN (EAN)      | 4032248277070                                                                 |
| Qty.            | 1 pc(s).                                                                      |
| Available until | 2019-03-31                                                                    |

## WAVEFILTER 3A

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 73.4 mm | Depth (inches)  | 2.89 inch  |
| Height     | 92.4 mm | Height (inches) | 3.638 inch |
| Width      | 22.5 mm | Width (inches)  | 0.886 inch |
| Net weight | 79.79 g |                 |            |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -25 °C...55 °C | Operating temperature | -20 °C...40 °C |
|---------------------|----------------|-----------------------|----------------|

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## General data

|                   |                  |                   |                    |
|-------------------|------------------|-------------------|--------------------|
| Colour            | beige            | Design            | Wave 22.5 L        |
| Height with TS 35 | 112.4 mm         | Protection degree | IP20               |
| Rail              | TS 35            | Segment           | Power distribution |
| Version           | Surge protection |                   |                    |

## Insulation coordination acc. to EN 50178

|                    |   |                        |     |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

## Rated data IEC / EN

|                              |                                          |                                   |           |
|------------------------------|------------------------------------------|-----------------------------------|-----------|
| Attenuation at 0.15 MHz      | < 0.5 dB                                 | Attenuation at 1 MHz              | 18 dB     |
| Attenuation at 10 MHz        | 45 dB                                    | Attenuation at 100 MHz            | 30 dB     |
| Capacitance                  | C <sub>x</sub> / C <sub>and</sub> : 33nF | Fuse                              | 5 A       |
| Inductance L and L1          | 2 mH                                     | Leakage current at U <sub>n</sub> | 190 µA    |
| Rated current I <sub>N</sub> | 3 A                                      | Rated voltage (AC)                | 250 V     |
| Rated voltage (DC)           | 250 V                                    | Test voltage P-N                  | 1700 V DC |
| Test voltage P/N-PE          | 2000 V AC                                | Voltage type                      | AC/DC     |

## Connection data

|                                                            |                     |                                                            |                     |
|------------------------------------------------------------|---------------------|------------------------------------------------------------|---------------------|
| Cross-section                                              | 2.5 mm <sup>2</sup> | Tightening torque, min.                                    | 0.4 Nm              |
| Tightening torque, max.                                    | 0.6 Nm              | Clamping range, rated connection                           | 2.5 mm <sup>2</sup> |
| Clamping range, min.                                       | 0.5 mm <sup>2</sup> | Clamping range, max.                                       | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, min.       | 0.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, max.       | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm <sup>2</sup> |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002623    | ETIM 7.0    | EC002623    |
| ETIM 8.0    | EC002623    | ECLASS 9.0  | 27-18-28-14 |
| ECLASS 9.1  | 27-42-02-08 | ECLASS 10.0 | 27-18-28-14 |
| ECLASS 11.0 | 27-18-28-14 |             |             |

**WAVEFILTER 3A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



ROHS Conform

UL File Number Search E64388

**Downloads**Approval/Certificate/Document of  
Conformity[EU\\_Konformitätserklärung / EU\\_Declaration\\_of\\_Conformity](#)

Engineering Data

[CAD data – STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

User Documentation

[Operating instructions](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

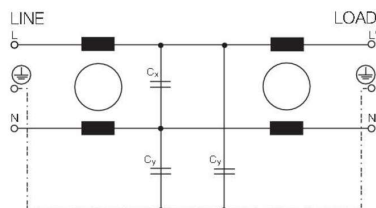
## WAVEFILTER 3A

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

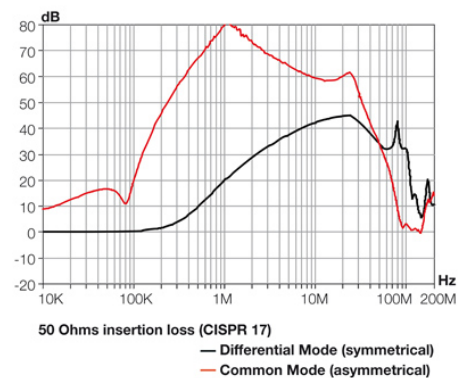
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

### Electric symbol



Circuit diagram



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Weidmuller:](#)

[8614780000](#)