

# FIL-1S-1-6A-230AC-UT - EMC filter



1292323

<https://www.phoenixcontact.com/us/products/1292323>

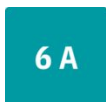
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2,5 mm²



SCREW



6 A

IEC



EMC filter (mains filter) for single-phase AC and DC systems (nominal voltage: up to 230 V AC, up to 220 V DC), for mounting on NS 35, nominal current: 6 A

## Your advantages

- Reliable protection of sensitive equipment against high-frequency conducted interference
- Effective attenuation with current-coupled coils and X and Y capacitors
- Versatile in use with universal circuit design
- Improved filter effect with additional PE terminals, for connection to the local protective bonding
- User-friendly handling thanks to easy assembly and installation with screw connection technology (UT)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1292323       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL28          |
| Product key                          | CLC151        |
| GTIN                                 | 4063151525521 |
| Weight per piece (including packing) | 254 g         |
| Weight per piece (excluding packing) | 200 g         |
| Customs tariff number                | 85480090      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                     |                            |
|---------------------|----------------------------|
| Product type        | EMC filters                |
| Type                | DIN rail module, one-piece |
| Number of positions | 2                          |

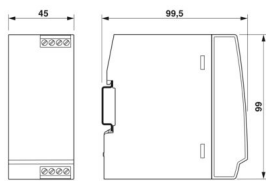
### Electrical properties

|                         |                    |
|-------------------------|--------------------|
| Nominal frequency $f_N$ | 50 Hz (60 Hz)      |
| Nominal voltage $U_N$   | 230 V AC (TN-S/TT) |
|                         | 230 V AC (IT, L-L) |
|                         | 120 V AC (TN-S/TT) |
|                         | 120 V AC (IT, L-L) |
|                         | 220 V DC           |
| Rated voltage ( $U_R$ ) | 250 V AC           |
|                         | 250 V DC           |

### Connection data

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Screw thread                     | M3                                          |
| Tightening torque                | 0.5 Nm                                      |
| Conductor cross-section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section AWG      | 24 ... 12                                   |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 45 mm                                                                                |
| Height              | 99 mm                                                                                |
| Depth               | 99.5 mm                                                                              |

### Material specifications

|                                        |                       |
|----------------------------------------|-----------------------|
| Color                                  | gray (RAL 7042)       |
|                                        | light gray (RAL 7035) |
| Flammability rating according to UL 94 | V-0                   |
| Housing material                       | PC-GF10               |

### Mechanical properties

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## Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Protective circuit

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Nominal voltage $U_N$                   | 230 V AC (TN-S/TT)                                      |
|                                         | 230 V AC (IT, L-L)                                      |
|                                         | 120 V AC (TN-S/TT)                                      |
|                                         | 120 V AC (IT, L-L)                                      |
|                                         | 220 V DC                                                |
| Nominal frequency $f_N$                 | 50 Hz (60 Hz)                                           |
| Rated current                           | 6 A (50 °C)                                             |
| Protective conductor current $I_{PE}$   | $\leq 0.2$ mA                                           |
| Input attenuation aE, sym.              | > 70 dB (50 $\Omega$ / 1 MHz)                           |
| Input attenuation aE, asym.             | > 40 dB (50 $\Omega$ / 1 MHz)                           |
| Capacity                                | 2x 470 nF (X2)                                          |
|                                         | 2x 2.2 nF (Y2)                                          |
| Inductivity in series                   | 2x 2.7 mH (with current compensation)                   |
| Short-circuit current rating $I_{SCCR}$ | 10 kA AC (gG, Class J)                                  |
|                                         | 6 kA AC (MCB B)                                         |
|                                         | 6 kA AC (MCB, UL 489 Tripping Curve Z or B)             |
|                                         | 6 kA AC (MCB, CSA C22.2 No. 5-02 Tripping Curve Z or B) |
|                                         | 6 kA DC (gG, Class J)                                   |
| Max. required back-up fuse              | 4 A AC/DC (gG, Class J)                                 |
|                                         | 6 A AC (MCB B)                                          |
|                                         | 6 A AC (MCB, UL 489 Tripping Curve Z or B)              |
|                                         | 6 A AC (MCB, CSA C22.2 No. 5-02 Tripping Curve Z or B)  |

## Filter data

|                      |                |
|----------------------|----------------|
| Discharge resistance | 940 k $\Omega$ |
|----------------------|----------------|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| Degree of protection                    | IP20                                                      |
| Ambient temperature (operation)         | -40 °C ... 70 °C (dependent on the derating curve)        |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C                                          |
| Ambient temperature (assembly)          | -5 °C ... 70 °C                                           |
| Altitude                                | $\leq 2000$ m (amsl)                                      |
| Permissible humidity (operation)        | 5 % ... 95 %                                              |
| Shock (operation)                       | 15g (Half-sine / 11 ms / 3x $\pm X$ , $\pm Y$ , $\pm Z$ ) |
| Vibration (operation)                   | DNVGL-CG-0339 class A                                     |

## Standards and regulations

|                          |             |
|--------------------------|-------------|
| Standards/specifications | IEC 60939-1 |
| Standards/specifications | EN 60939-1  |

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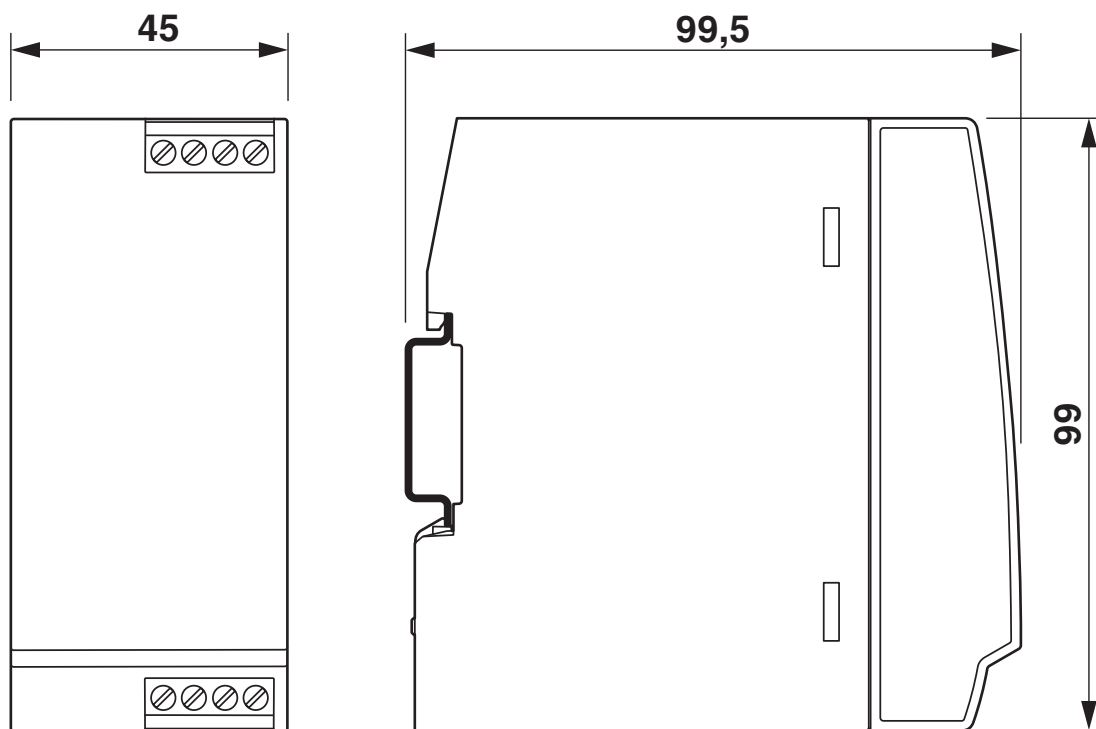
|                          |                      |
|--------------------------|----------------------|
| Standards/specifications | IEC 60939-2          |
| Standards/specifications | EN 60939-2           |
| Standards/specifications | UL 60939-3           |
| Standards/specifications | UL 1283              |
| Standards/specifications | UL 121201            |
| Standards/specifications | CSA C22.2 No. 8-13   |
| Standards/specifications | CSA C22.2 No. 213-17 |

## Mounting

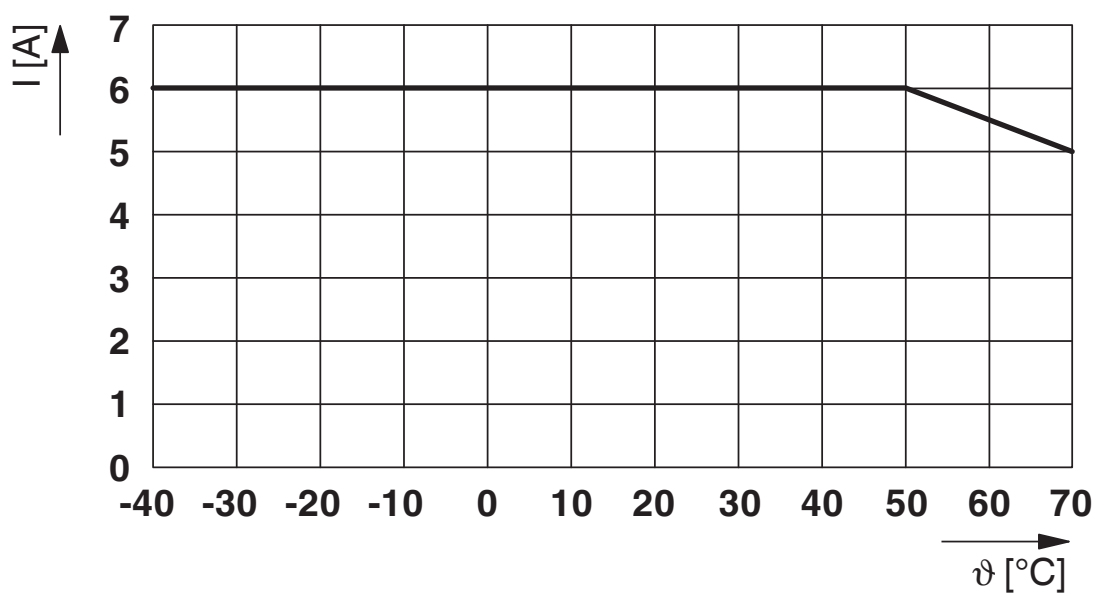
|               |                 |
|---------------|-----------------|
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|

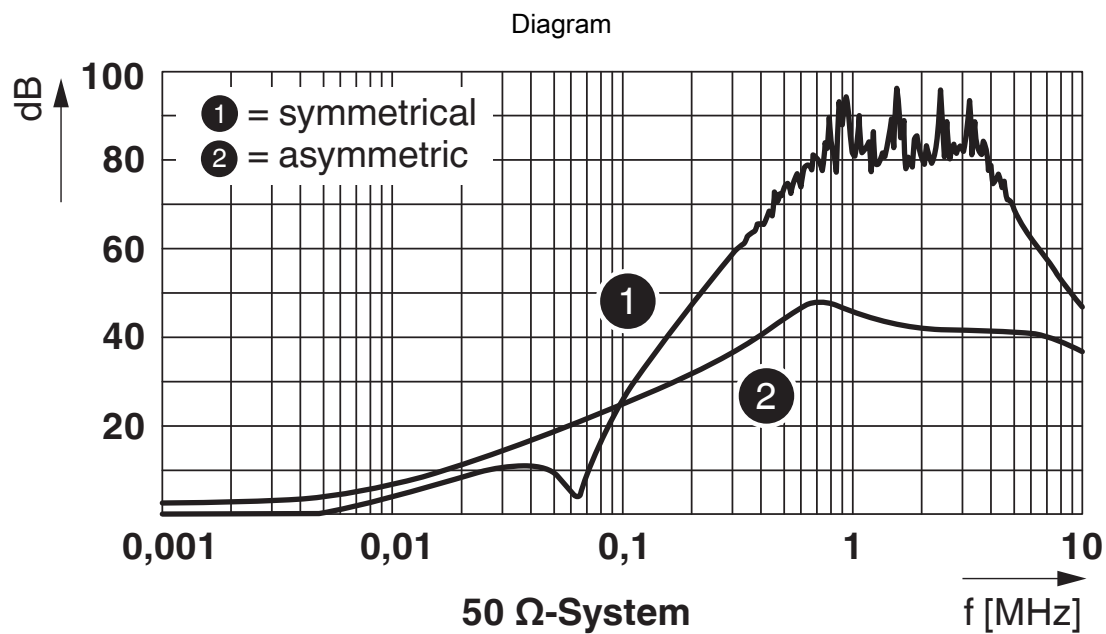
## Drawings

Dimensional drawing

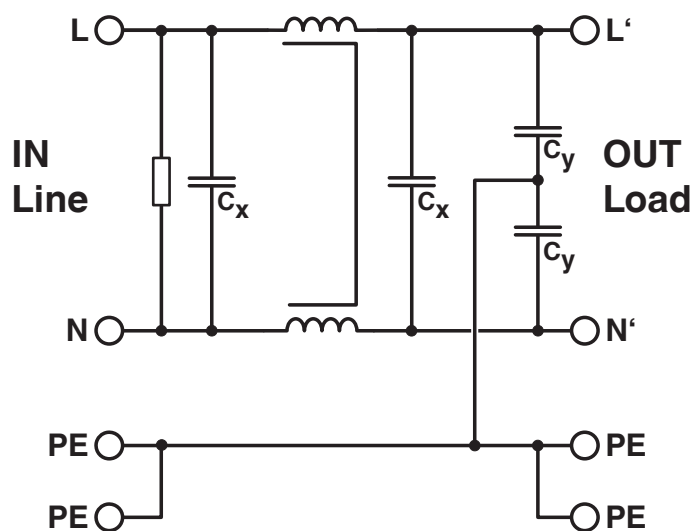


Diagram





Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1292323>



**cUL Recognized**  
Approval ID: FILE E 526585



**UL Recognized**  
Approval ID: FILE E 526585



**IECEE CB Scheme**  
Approval ID: DE1-66248



**VDE Zeichengenehmigung**  
Approval ID: 40054877

**CCA**

Approval ID: DE1-34877-A1



**DNV GL**  
Approval ID: TAA0000384



**CSA**  
Approval ID: 80228707



**CSAus**  
Approval ID: 80228707



**cULus Recognized**  
Approval ID: E118989



**cUL Recognized**  
Approval ID: FILE E 532830



**UL Recognized**  
Approval ID: FILE E 532830

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**cUL Recognized**  
Approval ID: E340736



**UL Recognized**  
Approval ID: E340736



**CSA**  
Approval ID: 80228706



**CSAus**  
Approval ID: 80228706



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27420208 |
| ECLASS-15.0 | 27420290 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002564 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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