

### 3-phase high current filter



See below:

#### Approvals and Compliances

#### Description

- High power filter for rated currents up to 2500 A

#### Applications

- High voltage rating 760 VAC for IT mains supply
- Especially designed for high power applications such as: Frequency Converters, UPS-Systems, Inverters for Photovoltaic Systems and Wind Energy
- Suitable for use in equipment according to IEC/UL 62368-1

#### Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Detailed request for product](#), [Microsite](#)

#### Technical Data

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Rated Current           | 150 - 2500A @ Ta 50 °C                                |
| Rated voltage           | 520/760VAC, 50/60 Hz                                  |
| Approval for            | 150 - 2500A @ Ta 50 °C / 520/760/520/760VAC; 50/60 Hz |
| Overload Current        | 1.5 x Ir for 1 minute, per hour                       |
| Leakage Current         | < 15mA (440V / 50Hz)                                  |
| Dielectric Strength     | 520VAC:                                               |
|                         | 2.15kVDC between L-L                                  |
|                         | 2.7kVDC between L-PE                                  |
|                         | Test voltage 2 sec                                    |
|                         | 760VAC:                                               |
|                         | 3kVDC between L-L                                     |
|                         | 3.1kVDC between L-PE                                  |
| Number of Filter Stages | 3-stage                                               |
| Weight                  | 12 - 89kg                                             |
| Material: Housing       | Metal / Aluminium                                     |
| Sealing Compound        | UL 94V-0                                              |

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| Mounting              | Screw-on mounting on chassis, from top                                            |
| Terminal              | Bolt and nut M10 for types up to 250 A and copper bars for types upwards of 320 A |
| Operating Temperature | -40 °C to 100 °C                                                                  |
| Climatic Category     | 40/100/21 acc. to IEC 60068-1                                                     |
| Degree of Protection  | IP20 acc. to IEC 60529                                                            |
| Protection Class      | Suitable for appliances with protection class I acc. to IEC 61140                 |
| MTBF                  | > 200'000h acc. to MIL-HB-217 F                                                   |

#### Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

#### Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: FMCC SOL

| Approval Logo                                                                       | Certificates                 | Certification Body | Description            |
|-------------------------------------------------------------------------------------|------------------------------|--------------------|------------------------|
|  | <a href="#">UL Approvals</a> | UL                 | UL File Number: E72928 |

Product standards

Product standards that are referenced

| Organization                                                                     | Design                | Standard  | Description                                                  |
|----------------------------------------------------------------------------------|-----------------------|-----------|--------------------------------------------------------------|
|  | Designed according to | IEC 60939 | Passive filters for suppressing electromagnetic interference |
|  | Designed according to | UL 1283   | Electromagnetic interference filters                         |

Application standards

Application standards where the product can be used

| Organization                                                                     | Design                         | Standard       | Description                                                                                                          |
|----------------------------------------------------------------------------------|--------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------|
|  | Designed for applications acc. | IEC/UL 62368-1 | IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment. |

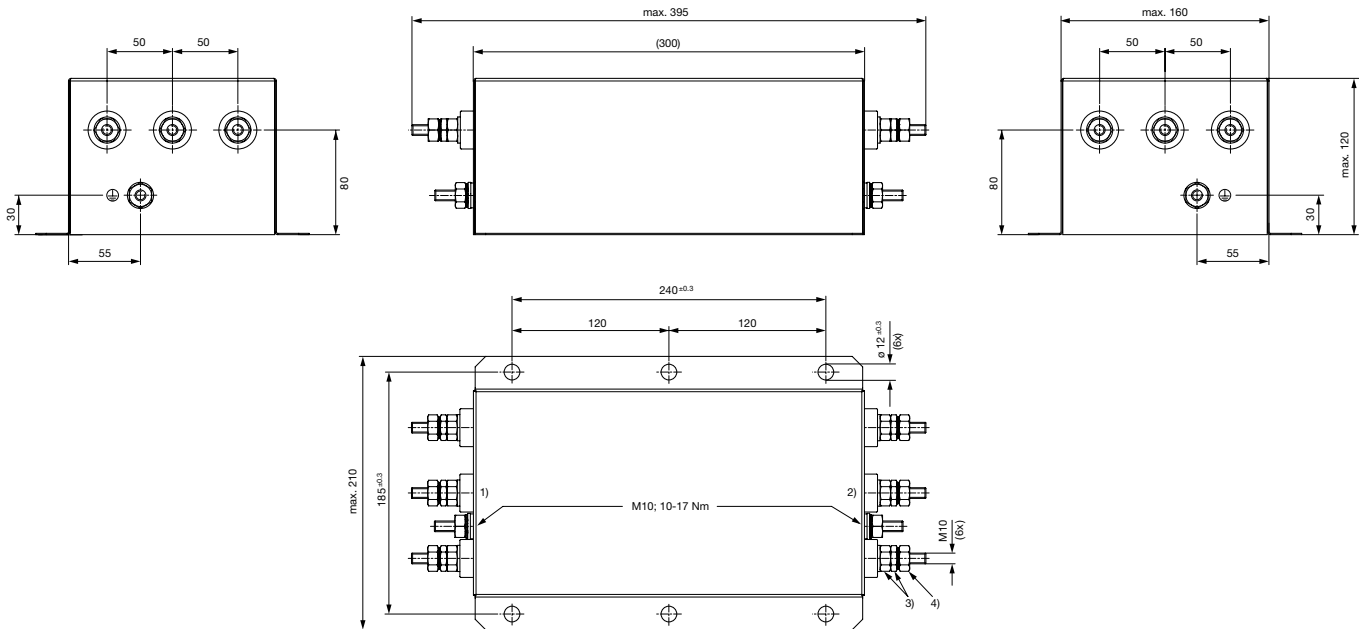
Compliances

The product complies with following Guide Lines

| Identification                                                                   | Details                                      | Initiator   | Description                                                                                                                                                                                           |
|----------------------------------------------------------------------------------|----------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">CE declaration of conformity</a> | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008. |
|  | RoHS                                         | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863                                                                                                                                                    |
|  | China RoHS                                   | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.                                                                                  |
|  | REACH                                        | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.                               |

Dimension [mm]

Case 3A



- 1) Line
- 2) Load
- 3) Lock-nut do not unscrew
- 4) Nut torque 10...17 Nm, keep lock-nut fastened

[illegible]

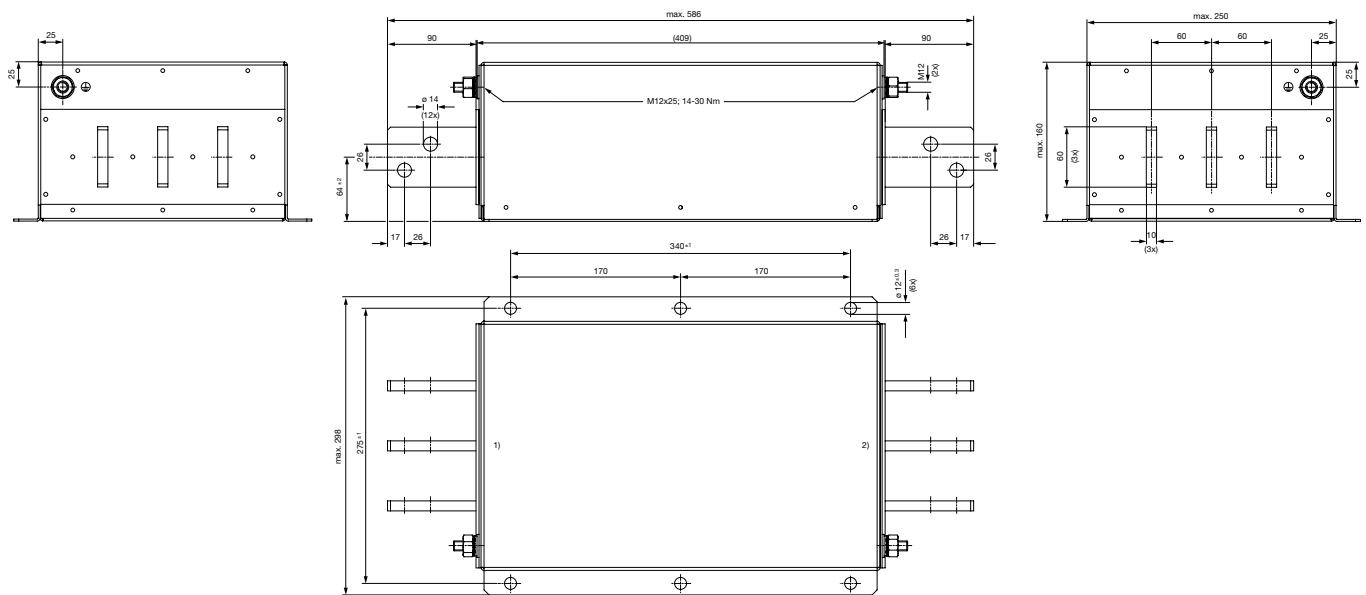
- ### Case 3C

- 1) Line
- 2) Load

## Case 3E



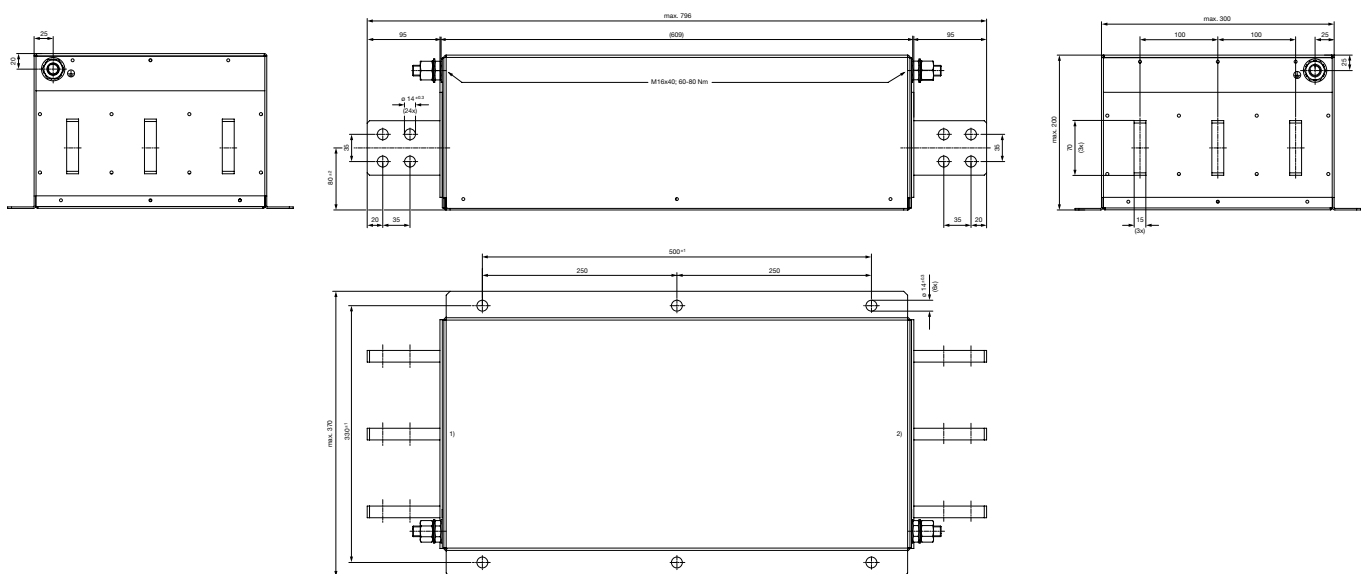
Case 3F



1) Line

2) Load

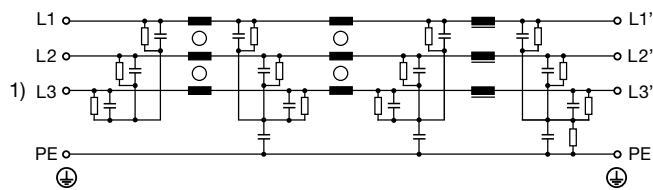
Case 3G



1) Line

2) Load

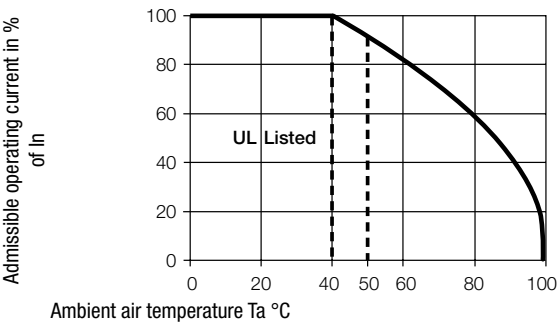
Diagrams



1) Line

Derating Curves

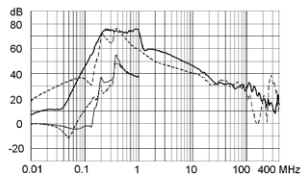
Permissible Working Current as a Function of Ambient Temperature



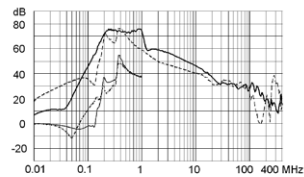
**Attenuation Loss** . . . 0.1/100Ω differential mode ..... 100/0.1Ω differential mode - - - 50Ω differential mode \_\_\_\_ 50Ω common mode

Standard version

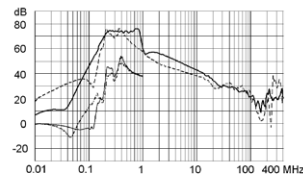
150 A / 520 V



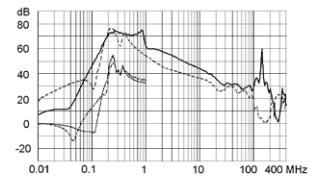
180 A / 520 V



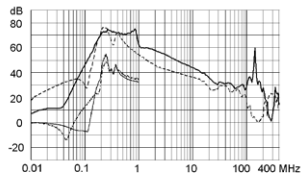
250 A / 520 V



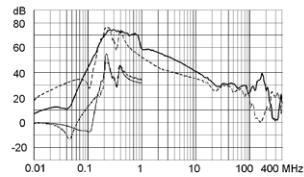
320 A / 520 V



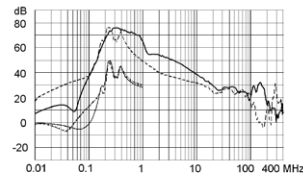
400 A / 520 V



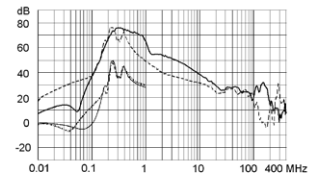
600 A / 520 V



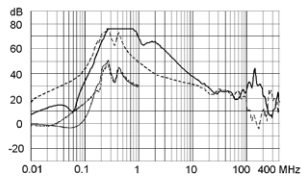
800 A / 520 V



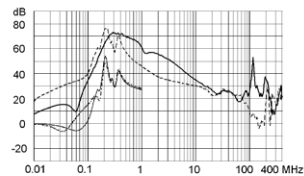
1000 A / 520 V



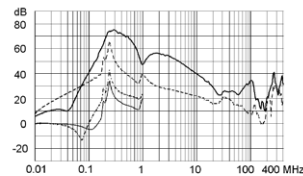
1600 A / 520 V



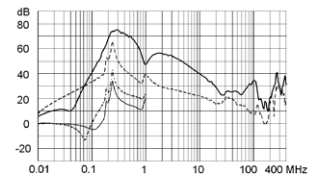
2500 A / 520 V



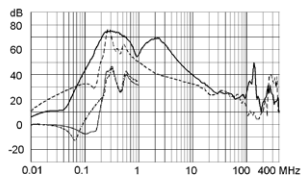
150 A / 760 V



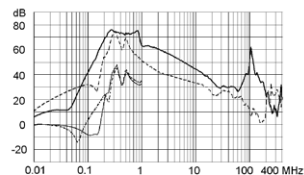
180 A / 760 V



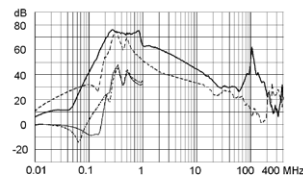
250 A / 760 V



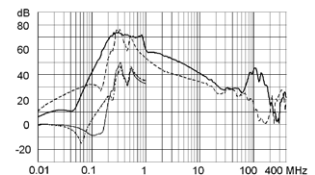
320 A / 760 V



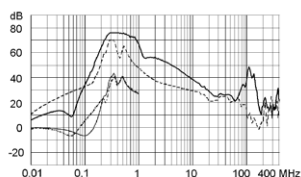
400 A / 760 V



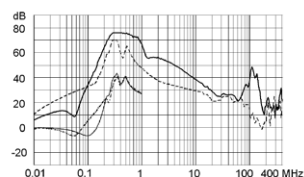
600 A / 760 V



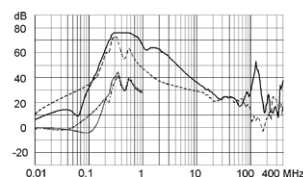
800 A / 760 V



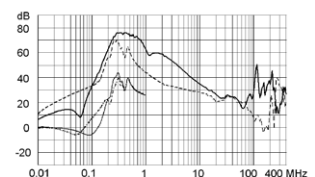
1000 A / 760 V



1600 A / 760 V



2500 A / 760 V



## All Variants

| Rated Current @ Ta<br>50°C (40°C) [A] | Rated Voltage [VAC] | Power (kW) | Leakage Cur-<br>rent [mA] @ 440V,<br>60Hz 1) | Tripped Power<br>Dissipation [W] | Weight [kg] | Housings | Order Number                   |
|---------------------------------------|---------------------|------------|----------------------------------------------|----------------------------------|-------------|----------|--------------------------------|
| 150 (164)                             | 520                 | 75         | 14.1                                         | 8                                | 9 kg        | 3A       | <a href="#">FMCC-H93A-J532</a> |
| 180 (197)                             | 520                 | 90         | 14.1                                         | 11                               | 9 kg        | 3A       | <a href="#">FMCC-H93A-J832</a> |
| 250 (250)                             | 520                 | 132        | 14.1                                         | 13                               | 11 kg       | 3B       | <a href="#">FMCC-H93B-K532</a> |
| 320 (350)                             | 520                 | 160        | 14.1                                         | 16                               | 12 kg       | 3C       | <a href="#">FMCC-H93C-L252</a> |
| 400 (438)                             | 520                 | 220        | 14.1                                         | 25                               | 12 kg       | 3C       | <a href="#">FMCC-H93C-M052</a> |
| 600 (657)                             | 520                 | 315        | 14.1                                         | 43                               | 14 kg       | 3D       | <a href="#">FMCC-H93D-U052</a> |
| 800 (876)                             | 520                 | 400        | 14.1                                         | 56                               | 26 kg       | 3E       | <a href="#">FMCC-H93E-Q052</a> |
| 1000 (1095)                           | 520                 | 560        | 14.1                                         | 88                               | 26 kg       | 3E       | <a href="#">FMCC-H93E-S052</a> |

| Rated Current @ Ta<br>50°C (40°C) [A] | Rated Voltage [VAC] | Power (kW) | Leakage Cur-<br>rent [mA] @ 440V,<br>60Hz 1) | Tripped Power<br>Dissipation [W] | Weight [kg] | Housings | Order Number   |
|---------------------------------------|---------------------|------------|----------------------------------------------|----------------------------------|-------------|----------|----------------|
| 1600 (1600)                           | 520                 | 900        | 14.1                                         | 150                              | 29 kg       | 3F       | FMCC-H93F-S652 |
| 2500 (2500)                           | 520                 | 1320       | 14.1                                         | 286                              | 67 kg       | 3G       | FMCC-H93G-T552 |
| 150 (164)                             | 760                 | 110        | 13.5                                         | 8                                | 9 kg        | 3A       | FMCC-I93A-J534 |
| 180 (197)                             | 760                 | 132        | 13.5                                         | 11                               | 9 kg        | 3A       | FMCC-I93A-J834 |
| 250 (250)                             | 760                 | 200        | 13.5                                         | 13                               | 11 kg       | 3B       | FMCC-I93B-K534 |
| 320 (350)                             | 760                 | 250        | 13.5                                         | 16                               | 12 kg       | 3C       | FMCC-I93C-L254 |
| 400 (438)                             | 760                 | 315        | 13.5                                         | 25                               | 12 kg       | 3C       | FMCC-I93C-M054 |
| 600 (657)                             | 760                 | 500        | 13.5                                         | 43                               | 14 kg       | 3D       | FMCC-I93D-U054 |
| 800 (876)                             | 760                 | 630        | 13.5                                         | 56                               | 26 kg       | 3E       | FMCC-I93E-Q054 |
| 1000 (1095)                           | 760                 | 710        | 13.5                                         | 88                               | 26 kg       | 3E       | FMCC-I93E-S054 |
| 1600 (1600)                           | 760                 | 1320       | 13.5                                         | 150                              | 29 kg       | 3F       | FMCC-I93F-S654 |
| 2500 (2500)                           | 760                 | 2000       | 13.5                                         | 286                              | 67 kg       | 3G       | FMCC-I93G-T554 |

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

1) Leakage current according IEC 60939-1

**Packaging unit** 1 Pcs

## Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

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