



RENEWABLE ENERGY (PV/WIND TURBINES) INTERFERENCE-FREE POWER SUPPLY

SCHURTER
ELECTRONIC COMPONENTS

SCHURTER provides both a wide range of internationally approved components, as well as customized solutions, which are used in reliable energy supply systems.

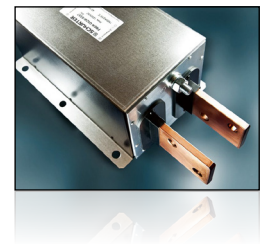
Key Products

- Fuse ASO/Holder FSO
 - 10,3x38
 - 1000 VDC
 - Up to 50 A
 - Holder 1, 2 or 3-pole



Key Products

- Filter – FMER SOL
 - High Current DC-filter
 - 25 A – 2,300 A @55°C
 - Voltages up to 1.500 V DC
 - For Photovoltaic Systems



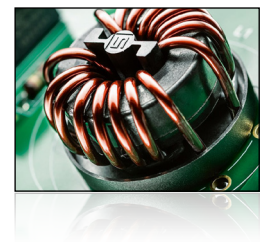
Key Products

- Filter – FMBB EP
 - Single Phase filter
 - Compact design
 - Current 1 – 36 A
 - IEC/UL 62368-1



Key Products

- Choke – DKIH-1
 - Compensated high current choke
 - 10 – 50 A
 - THT terminals





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■ Fuses - ASO 10.3x38

High performance fuse for PV systems. The ASO fuse protects PV modules, conductors and similar DC-applications from the potentially devastating effects of a low short circuit current in systems upwards of 1000 VDC.



Key Features and Benefits

- Meets the UL and IEC photovoltaic standards
- UL recognized for 1,000 VDC
- High breaking capacity of 20 kA @ 1,000 VDC
- Low min. interrupting rating of 1.35 x I_n
- Meets the requirements of IEC 61730-2 for PV module safety

Key Applications:

- Photovoltaic applications
- Inverters
- Battery charge controllers
- In-line protection
- String fuses

■ Fuseholder - FSO

Fuseholder for standard DIN rail mount.

The touch-safe fuseholder FSO is designed for grid-tie or off-grid array combiners and standard DIN rail mount.



Key Features and Benefits

- Mountable on 35 mm DIN-Rail
- Easy installation and removal of fuses
- For fuses up to 100 kA interrupting rating

Key Applications:

- Combiner boxes in photovoltaic systems



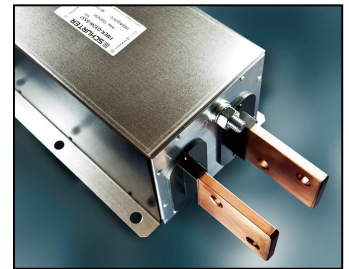
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■ EMC Filter - FMER SOL

High current DC filters. The FMER SOL filters are designed for rated currents from 25 A to 2,300 A at 55°C ambient temperature, and voltages up to 1,500 VDC. The filter series is suited for use on the DC side of the inverter in photovoltaic and other DC systems.



Key Features

- Compact DC filter for photovoltaic systems

Key Applications

- Protects the PV-modules from the inverter emissions
- Voltage up to 1,500 VDC for world wide acceptance
- UL approved 1,000 VDC, 250 – 2,300 A and 600 VDC, 25 – 150 A

Key Benefits

- Compact filter for high power
- Suitable for high voltages up to 1,500 VDC
- Light weight design
- Wide temperature range





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■ EMC Filter - FMBB EP

Single phase block filter with excellent performance. SCHURTER completes its portfolio of ultra-compact single-phase filters with a new generation of particularly high-performance thanks to a double stage filter design. FMBB EP is the name of the latest member in the completely closed steel housing.



Key Features

- Line filter in standard and medical version
- Double stage filter design
- Compact design
- Very light due to partial potting

Key Benefits

- Excellent differential and common-mode attenuation
- Broad band attenuation
- Completely closed steel housing
- Wide temperature range

Key Applications

- Designed for current applications of 1 - 36 A
- Protection against interference voltage from the mains
- Especially designed for industrial applications such as:
 - Frequency Converters
 - Stepper Motor Drives
 - UPS-Systems
 - Inverters
- Suitable for use in equipment according to IEC/UL 62368-1





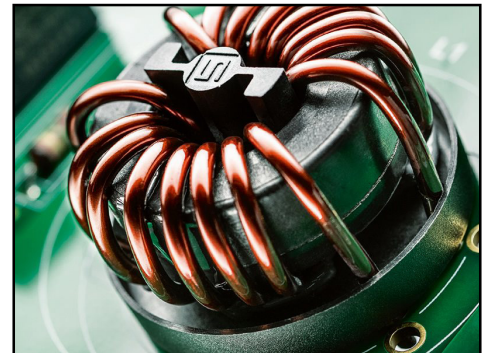
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■ EMC Filter- DKIH-1

Compensated High Current Choke. The DKIH-1 series is suitable for single phase AC or DC applications from 10 up to 50 amperes. Light weight and compact, the common mode chokes are easily placed on the PCB with through hole technology. They are designed and approved according IEC 60938, UL 1283 & CSA 22.2 no. 8. The voltage rating is 300 VAC (IEC, UL) and 250 VAC (CSA) with an inductance range of 1.6 to 6.9 mH.



Key Features

- Current compensated choke
- 1-phase choke
- THT-terminals
- Flange for mounting onto printed circuit board

Key Applications

- Frequency converter
- Charge stations
- UPS-systems
- Switching power supplies

Key Benefits

- Compact size and light weight
- Open design optimizes heat dissipation
- Nanocrystalline (NK) or ferrite ring cores
- Customer specific pin outs available