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From:	Herbert Blum	Product Group:	3-Phase Block Filter
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FPAC RAIL

3-Phase DIN Rail Filter

- Slim housing
- Suitable for many applications thanks to high voltage resistance
- Metal base plate for optimum ground connection to the rail
- Variants with standard (ferrite core) and high attenuation (nanocrystalline core)

Product

SCHURTER launches a new 3-phase filter series for DIN rail mounting. Thanks to the slim housing (44 mm), it takes up very little space on the mounting rail in the control cabinet. The single-stage filter is available with standard or high attenuation. A metal base plate ensures an excellent ground connection to the rail.

Space is almost always at a premium in control cabinets for industrial applications in the 3-phase range (e.g. motor drives, control systems). SCHURTER addresses this problem with a complete new filter design that is just 44 mm in width. The new, single-stage filter series is constructed with a printed circuit board in a plastic housing. It has screw terminals for the three phases and a terminal on the metal base plate for the earth connection.

Standard and High Performance Versions

In the standard version with a ferrite core, the new filters already offer very impressive attenuation behavior. The high performance versions with nanocrystalline cores achieve up to 8 dB more attenuation.

Low Leakage Currents

The new filter family has particularly low leakage currents of just 1.3 mA. This applies to all versions!

Applications

All versions can be used from -40 °C to 100 °C. The filters are designed for currents from 3 A to 32 A at a maximum of 520 VAC in accordance with IEC and UL standards. They feature ENEC and cURus approval and are suitable for applications in accordance with IEC 62368-1.

FPAC rail filters are recommended for devices with high EMC loads (switching power supplies, converters, etc.). Typical areas of application are therefore industrial or machine control systems, but the high-performance, slimline filters are also ideal for laboratory, telecom and IT devices.

Availability and Samples

The new standard variants are available in small quantities from stock. Larger quantities on request. More information about available stock of a specific variant may be retrieved by using the Distributor Stock Check in the table of variants on the [Data Sheet \[1\]](#).

Additional Information

This document together with the PR texts, -adverts and -pictures and pricing information are available in [Digital Asset Management \[2\]](#). The [Data Sheet \[1\]](#) contains detailed information about the technical specifications, order numbers as well as CAD-Data.

Please do not hesitate to contact us in case of any questions.

Best Regards,

Herbert Blum
Product Manager

SCHURTER AG

Werkhofstrasse 8-12

6002 Lucerne

Switzerland

Direct +41 41 369 33 51

www.schurter.com

herbert.blum@schurter.com

Links to Sales Information

[1] Technical Data

https://www.schurter.com/en/datasheet/FPAC_RAIL

[2] DAM

<https://dam.schurter.com/web/9efbef7371f38bfd/2024-launch-fpac-rail>

New Part Numbers

Part no.	Description	Configuration code
3-150-001	FPAC RAIL FILTER 3PH 1ST 3A 520VAC	FPAC-3RUY-0312
3-150-002	FPAC RAIL FILTER 3PH 1ST 6A 520VAC	FPAC-3RUY-0612
3-150-003	FPAC RAIL FILTER 3PH 1ST 10A 520VAC	FPAC-3RUY-1012
3-150-004	FPAC RAIL FILTER 3PH 1ST 12A 520VAC	FPAC-3RUY-1212
3-150-005	FPAC RAIL FILTER 3PH 1ST 16A 520VAC	FPAC-3RUY-1612
3-150-006	FPAC RAIL FILTER 3PH 1ST 20A 520VAC	FPAC-3RUY-2012
3-150-007	FPAC RAIL FILTER 3PH 1ST 25A 520VAC	FPAC-3RUY-2512
3-150-008	FPAC RAIL FILTER 3PH 1ST 32A 520VAC	FPAC-3RUY-3212
3-150-011	FPAC RAIL FILTER 3PH 1ST 3A 520VAC HP	FPAC-3RUY-0312-HP
3-150-012	FPAC RAIL FILTER 3PH 1ST 6A 520VAC HP	FPAC-3RUY-0612-HP
3-150-013	FPAC RAIL FILTER 3PH 1ST 10A 520VAC HP	FPAC-3RUY-1012-HP
3-150-014	FPAC RAIL FILTER 3PH 1ST 12A 520VAC HP	FPAC-3RUY-1212-HP
3-150-015	FPAC RAIL FILTER 3PH 1ST 16A 520VAC HP	FPAC-3RUY-1612-HP
3-150-016	FPAC RAIL FILTER 3PH 1ST 20A 520VAC HP	FPAC-3RUY-2012-HP
3-150-017	FPAC RAIL FILTER 3PH 1ST 25A 520VAC HP	FPAC-3RUY-2512-HP
3-150-018	FPAC RAIL FILTER 3PH 1ST 32A 520VAC HP	FPAC-3RUY-3212-HP