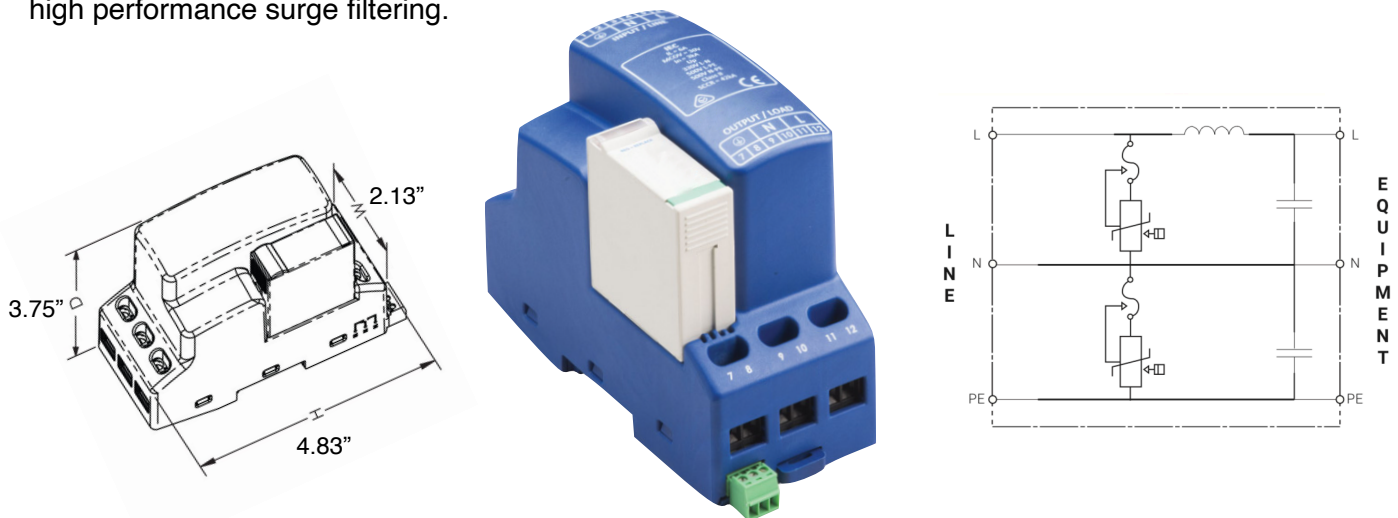


## 6, 20 AMP FILTERS

The FDF DIN mounted Surge/Filter [SPD] has been specifically designed for sensitive process control applications. Patented Frequency Triggered Technology is at the heart of this premium filter. Engineered to provide durability and long life, even under the most adverse conditions. The FDF DIN Filter provides **'Best in Class' filtering** for sensitive electronics where reduced rate of rise and low residual let-through voltages are required. Replaceable Surge Module reduces down time. Compact space saving design.

The FDF is a series connected, single-phase surge filter providing a high peak surge capacity of 20kA across all modes. The low pass-through filter provides up to 65dB of noise attenuation. Comes in **6 and 20 amp** sizes.

Applications: Switched mode power supplies commonly found in PLC controllers, SCADA systems, lighting controls, and many different types of motor controllers. Ideal for any controller that requires high performance surge filtering.



| Model                     | FDF6A24  | FDF6A120               | FDF6A240                            | FDF20A120              | FDF20A240                           |
|---------------------------|--|------------------------|-------------------------------------|------------------------|-------------------------------------|
| Nominal System Voltage    | 24V  | 120V                   | 240V                                | 120V                   | 240V                                |
| MCOV                      | 30V  | 170 VAC                | 275 VAC                             | 170 VAC                | 275 VAC                             |
| Max Line Current IL       | 6 AMPS   |                        |                                     | 20 AMPS                |                                     |
| Frequency                 | 0-100 Hz   | 0-100 Hz               | 0-100 Hz                            | 0-100 Hz               | 0-100 Hz                            |
| Max Discharge Current     | 20 kA 8/20 $\mu$ s   | 20 kA 8/20 $\mu$ s     | 20 kA 8/20 $\mu$ s                  | 20 kA 8/20 $\mu$ s     | 20 kA 8/20 $\mu$ s                  |
| Voltage Protection Rating | NA   | 330 V L-N<br>700 V N-G | 620 V L-N (MLV)<br>1220 V N-G (MLV) | 400 V L-N<br>700 V N-G | 680 V L-N (MLV)<br>1330 V N-G (MLV) |
| Filtering                 | -65 dB @ 100 kHz   | -65 dB @ 100 kHz       | -65 dB @ 100 kHz                    | -50 dB @ 100 kHz       | -50 dB @ 100 kHz                    |
| Protection Modes          | All Modes  |                        |                                     |                        |                                     |
| Status                    | Mechanical flag and Remote Contacts  |                        |                                     |                        |                                     |
| Weight (lbs)              | 1.12 lbs.  |                        |                                     |                        |                                     |
| Enclosure                 | DIN 43 880, UL94V-0 thermoplastic, IP 20 (NEMA-1)  |                        |                                     |                        |                                     |
| Connection                | #14 - #10 solid and stranded   |                        |                                     |                        |                                     |
| Mounting                  | 35 mm top hat DIN Rail   |                        |                                     |                        |                                     |
| Temperature               | -35°C to 55°C (-31°F to 131°F)   |                        |                                     |                        |                                     |
| Approvals                 | UL® 1449 Edition 4.0: 120v models: Type 2CA, 3 kA Mode, 240v models: Type 4CA, 3 kA Mode, UL 1283 Edition 5 EMI Filter |                        |                                     |                        |                                     |
| Complies With             | IEC® 61643-11 Class II   |                        |                                     |                        |                                     |