

FF4-5W Series – WVR NEMA4 5 Amp Single Phase

Models	FF4-5W-120	FF4-5W-240E	FF4-5W-240E-LT
Mfg Part #	002-00618	002-00619	002-00616
Voltage/Hz	120V ac nominal 50-60 Hz	240V ac nominal 50-60 Hz	240V ac nominal 50-60 Hz
Max. Load	5 amps	5amps	5 amps
Chassis (DIN Track)	PVC DIN track mounted board/reactor assembly in NEMA 4 case		
Mounting	4 mount holes in corners of case		
Ground Connect	None		
Wire Connector & recommended attachment	Four position terminal block (hot leg in, hot leg out, 2 neutral connections). Wires should be stripped 7.0 mm. 240V model is single phase and NOT compatible with US 2 phase 240V.*		
Over-current Protection	5x20mm 5amp 250V slow blow fuse		
Weight	1-1/2 lb.		
Case Dimensions	180mm H x 110mm W x 90mm D		
Boxed Dim./Wt.	Bulk Pack		

* **WARNING:** Must be installed by a licensed electrician following NEC and local codes.



X10 Carrier Current Compatible



Specifications	120 Volt Product	240 volt Product
Voltage Ratings	US 120 Volt, single phase (one hot leg & a neutral leg tied to earth ground at service entrance). Will operate over a voltage range of 85 - 175 volts with Spectrum WVR technology (MCOV=175Vac). Full load regulation 1%.	European 240 Volt, single phase (one hot leg & a neutral leg tied to earth ground at service entrance). Will operate over a wide voltage range of 85 - 280 volts with Spectrum WVR technology (MCOV=280Vac); NOT COMPATIBLE WITH U.S. 240V (with two hot legs).
	Check line wiring for hot/neutral reversal prior to connecting this filter. Hot/neutral reversal is a critical safety issue and will prevent this product from functioning effectively.	
Operating Temperature Range	0-40 deg. C	
Technology Mode	Spectrum WVR® Wide Voltage Range filter technology Mode 1 applications, L-N (ground wire protection)	
Safety Certifications	CSA 22.2 No. 8-M1986, UL 1283 5 th edition pending	
Limiters	Series surge reactor current limiter; cascaded, auto-tracking dual polarity dynamic surge and noise sensing; bi-modal dynamic filtering. Parameters optimized for switch-mode power supply protection.	
Dynamic filtering Onset	172 volts nominal, 2 volts above peak line voltage (auto-tracking- WVR).	350 volts nominal, 2 volts above peak line voltage (auto-tracking- WVR).
Max. Surge Voltage Let-through*	130 Volts above peak line voltage @ 6,000 Volts, 3,000 Amps for ANSI C62.41 Category B3/C1 Combination Wave.	350 Volts above peak line voltage @ 6,000 Volts, 3,000 Amps for ANSI C62.41 Category B3/C1 Combination Wave.
Max. Applied Pulse Voltage	6,000 volts (1.2 x 50 μs – ANSI C62.41 Combination Wave)	
Max. Applied Pulse Current	>100,000 amperes applied (unlimited due to internal current limiting) (8 x 20 μs).	
Joule Rating	Not applicable to this technology. No MOV's to wear out.	
Endurance Rating	1,000 worst case pulses: ANSI C62.41, Category B3/C1 pulses (6,000 Volts, 3,000 Amperes); >10,000 pulses at 4,000 Volts; >100,000 pulses at 2,000 Volts.	
Filter Slew Rate	5,000 volts/μs disturbance reduced to 35 v/μs within AC power wave envelope; 10.0 v/us outside the power wave envelope.	5,000 volts/μs disturbance reduced to 35 v/μs within AC power wave envelope; 20.0 v/us outside the power wave envelope.
EMI-RFI Filter Response	Bi-directional, wave tracking: With 50 ohm Rgen., load: 7 kHz @ 3 dB; 25 dB @100 kHz; 38 dB @300 kHz.	

* Note: Surge voltage let-through is the peak voltage that exceeds the powerline peak voltage

100% Surge Protection, 0% Failure • Are you Zero Surge protected?

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