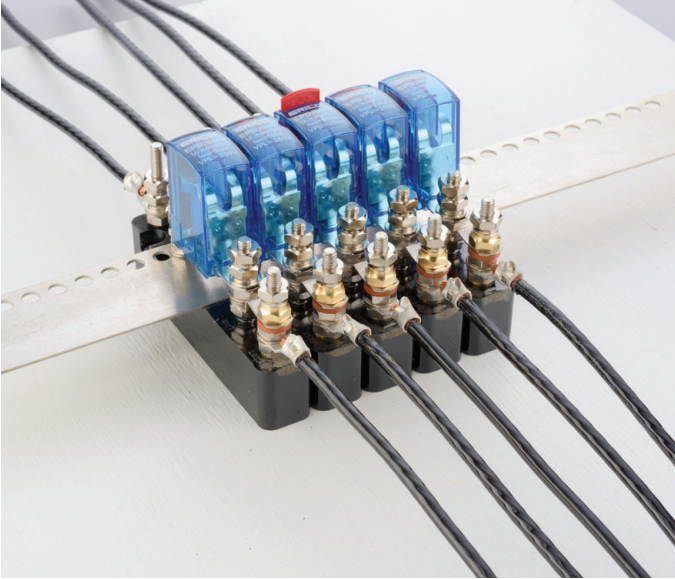


PROTECTION DEVICE SPECIFICATIONS FOR NVENT ERICO EPD F-SERIES



FEATURES

- Protects sensitive electronic equipment
- Reduced operating and maintenance costs
- Visual indicator
- Open-circuit end-of-life mode
- Proven hybrid technology comprised of gap-type and varistor-type components
- Epoxy coating ensures stability under adverse environmental conditions
- Two operating voltages
- 50kA 8/20 μ s maximum surge rating
- AREMA[®] binding post terminals
- Exceeds AREMA[®] recommendations for arrestor applications
- 5-year limited warranty

nVent ERICO is a world leader in grounding, bonding, surge and lightning protection in the railway industry offering an extensive line of wayside surge protection. The EPD F-Series provides transient protection from surges induced or conducted onto low-voltage signal circuits for trackside signaling equipment. This series of surge-protection devices is ideal for microprocessor-based train-control and indication circuits, train inspection systems, communications systems, highway crossing controls and other operationally sensitive systems.

Wayside rail-industry electronic-equipment environments are prone to dangerous and damaging voltage surges and transients. The EPD F-Series proven hybrid technology diverts surge currents to minimize the likelihood of system damage, reducing system down time and repair costs. nVent ERICO's design safeguards the devices against shorts, provides status indication at a glance and ensures uninterrupted signal operation when the device reaches end of life. Visual inspection is a key design feature. The device cover is color-coded and marked with the operating voltage and part number, which allows easy identification for proper application.

nVent ERICO is committed to providing engineered high quality and technologically advanced solutions to the unique applications of the railway industry and has served the worldwide market for over 100 years. Railway systems around the world depend on nVent ERICO solutions to keep their systems running safely and efficiently.

SPECIFICATIONS

Model	EPD2050F	EPD2170F
Nominal Voltage Un	50V _{DC} / 35V _{AC}	170V _{DC} / 120V _{AC}
Max. Cont. Operating Voltage Uc	90V _{DC} / 65V _{AC}	220V _{DC} / 150V _{AC}
Frequency @ 3dB / 120Ω	< 5 MHz	< 5 MHz
Technology Used	2 stage MOV – GDT	2 stage MOV – GDT

Protection		
Max. Discharge Current Imax	50kA 8/20μs	50kA 8/20μs
Nominal Discharge Current In*	30kA 8/20μs	20kA 8/20μs
Protection Modes	Single mode	Single mode
Voltage Protection Level @ 3kA	< 250V	< 500V

Indicators	
Status Indication	Visual Status Indicator

Physical Data	
Dimensions	3.0" x 1.0" x 2.2" [75 mm x 25 mm x 55 mm]
Weight	0.15 lbs [0.07 kg]
Enclosure	UL94V-0 thermoplastic, IP 20 (NEMA-1)
Connection	AREMA® binding post terminals
Mounting Centers	2-3/8" [60 mm]
Binding Post	Ø1/4" [Ø6 mm]
Operating Temperature	-40°F to +158°F [-40°C to +70°C]
Humidity	0 to 95%
Leakage Current	< 1 nA @ Un

Test Standards	
Approvals	AREMA® C&S Manual Parts 11.5.1, 11.3.2 and 11.3.3
Designed to Meet	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C
Warranty	5 years

ORDERING INFORMATION

Part Number	Description
EPD2050F	Signal Block Protector for low voltage signal control lines, 30kA 8/20μs, 50VDC/35VAC
EPD2170F	Signal Block Protector for low voltage signal control lines, 20kA 8/20μs, 170VDC/120VAC

Due to a policy of continual product development, specifications are subject to change without notice.

*Using UL 1449 test method



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER

IEC is a registered trademark of International Electrotechnical Commission.
UL is a registered trademark of UL LLC.

WARNING: nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at nVent.com/ERICO and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.

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