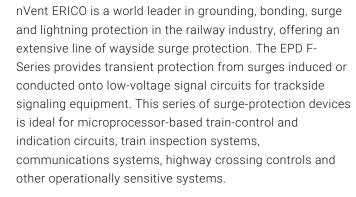


nVent ERICO Protection Device, F-Series



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.



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 8/20µs maximum surge rating

AREMA® binding post terminals

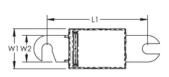
Exceeds AREMA® recommendations for arrestor applications

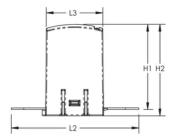
SPECIFICATIONS

Catalog Number	EPD2050F	EPD2170F
Nominal System Voltage (Un)	50 VDC 35 VAC	170 VDC 120 VAC
Max Continuous Operating Voltage (Uc)	90 VDC 65 VAC	220 VDC 150 VAC
Voltage Protection Level (Up)	250 V @ 3 kA	500 V @ 3 kA
Nominal Discharge Current (In)	30kA 8/20 μs	20kA 8/20 μs
Max Discharge Current (Imax)	50kA 8/20 μs	50kA 8/20 μs
Leakage Current @ Un	1 nA Max	1 nA Max
Frequency	5 MHz Max	5 MHz Max
Protection Modes	Single, L-L or L-PE	Single, L-L or L-PE
Technology	Metal Oxide Varistor (MOV) Gas Discharge Tube (GDT)	Metal Oxide Varistor (MOV) Gas Discharge Tube (GDT)
Connection Type	AREMA® Stud-Type Terminals – 2 Post Terminal Block	AREMA® Stud-Type Terminals – 2 Post Terminal Block
Status Indication	Mechanical flag	Mechanical flag
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20 NEMA®-1	IP 20 NEMA®-1
Humidity	0 - 95	0 - 95
Temperature	-40 to 80 °C	-40 to 80 °C
Length 1 (L1)	60 mm	60 mm
Length 2 (L2)	76 mm	76 mm
Length 3 (L3)	33mm	33mm
Width 1 (W1)	24 mm	24 mm
Width 2 (W2)	16 mm	16 mm
Height 1 (H1)	50mm	50mm
Height 2 (H2)	55mm	55mm
Unit Weight	0.07 kg	0.07 kg
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C AREMA® requirements	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C AREMA® requirements
Color	Transparent Blue	Transparent Yellow

Frequency @ 3 dB / 120 Ω .

DIAGRAMS





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 www.nvent.com 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 death and/or void your warranty.

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