

# UNIVERSAL TRANSIENT BARRIER, SINGLE PAIR



## CERTIFICATIONS



## FEATURES

Compact design universal transient barrier provides protection of low-voltage circuits and transducers

Separate plug and base design allows hot swappable module replacement

Multi-stage protection and fine over-voltage protection helps ensure lowest residual surge voltages reach sensitive equipment

Common-mode and differential-mode protection protects against both possible surge conditions

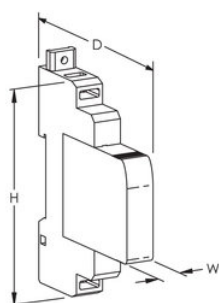
Surge rating to 20 kA 8/20  $\mu$ s is ideal for exposed wiring

Allows for protection of 25 analog signals or 50 digital signals per linear foot (0,3 m) of DIN rail space

Product Attribute	Universal Transient Barrier, Single Pair, 100-120 VAC, 60-154 VDC Un	Universal Transient Barrier, Single Pair, 3-10 VAC, 5-15 VDC Un	Universal Transient Barrier, Single Pair, 10-21 VAC, 15-30 VDC Un	Universal Transient Barrier, Single Pair, 0-3 VAC, 0-5 VDC Un	Universal Transient Barrier, Single Pair, 21-42 VAC, 30-60 VDC Un
Catalog Number	UTB110SP	UTB15SP	UTB30SP	UTB5SP	UTB60SP
Nominal System Voltage (Un)	100 - 120 VAC 60 - 154 VDC	3 - 10 VAC 5 - 15 VDC	10 - 21 VAC 15 - 30 VDC	0 - 3 VAC 0 - 5 VDC	21 - 42 VAC 30 - 60 VDC
Max Continuous Operating Voltage (Uc)	150 VAC 170 VDC	12 VAC 18 VDC	23 VAC 33 VDC	5 VAC 7 VDC	45 VAC 64 VDC
Rated Load Current (IL)	2 A	2 A	2 A	2 A	2 A
Frequency	3 MHz	1 MHz	2 MHz	0.5 MHz	3 MHz
Loop Resistance	1 $\Omega$	1 $\Omega$	1 $\Omega$	1 $\Omega$	1 $\Omega$

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Max Discharge Current (Imax), L+L-PE	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
Protection Modes	Common Differential	Common Differential	Common Differential	Common Differential	Common Differential
Technology	Gas Discharge Tube (GDT) Metal Oxide Varistor (MOV) Silicon Avalanche Diode (SAD)	Gas Discharge Tube (GDT) Metal Oxide Varistor (MOV) Silicon Avalanche Diode (SAD)	Gas Discharge Tube (GDT) Metal Oxide Varistor (MOV) Silicon Avalanche Diode (SAD)	Gas Discharge Tube (GDT) Metal Oxide Varistor (MOV) Silicon Avalanche Diode (SAD)	Gas Discharge Tube (GDT) Metal Oxide Varistor (MOV) Silicon Avalanche Diode (SAD)
Voltage Protection Level (Up), L-L	220 V @ 3 kA	25 V @ 3 kA	44 V @ 3 kA	10 V @ 3 kA	85 V @ 3 kA
Connection, Stranded	#18 – #12	#18 – #12	#18 – #12	#18 – #12	#18 – #12
Temperature	-4 to 149 °F	-4 to 149 °F	-4 to 149 °F	-4 to 149 °F	-4 to 149 °F
Mounting	35 mm top hat DIN rail	35 mm top hat DIN rail	35 mm top hat DIN rail	35 mm top hat DIN rail	35 mm top hat DIN rail
Enclosure Material	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic	UL® 94V-0 Thermoplastic
Enclosure Rating	IP 20 NEMA®-1	IP 20 NEMA®-1	IP 20 NEMA®-1	IP 20 NEMA®-1	IP 20 NEMA®-1
Depth(D)	2.830"	2.830"	2.830"	2.830"	2.830"
Height(H)	3.540"	3.540"	3.540"	3.540"	3.540"
Width(W)	0.470"	0.470"	0.470"	0.470"	0.470"
Unit Weight	0.150 lb	0.150 lb	0.150 lb	0.150 lb	0.150 lb
Certification Details	UL® 497B	UL® 497B	UL® 497B	UL® 497B	UL® 497B
Complies With	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C	ANSI®/IEEE® C62.41.2-2002 Cat A, Cat B, Cat C
Replacement Module	UTB110SPM	UTB15SPM	UTB30SPM	UTB5SPM	UTB60SPM

## DIAGRAMS



## WARNING

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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](http://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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