



Surge Protective Device **VTD S40 Series**

Description



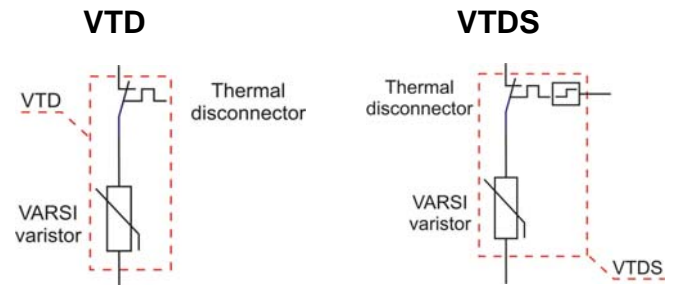
VTD(S) Surge Protective Devices use square-shape metal oxide varistors equipped with a thermo decoupling device. They can be widely used in TVSS products, AC/DC power supplies, AC panel protection modules, AC line power supplies, surge protected strip connectors, AC power meters, UPS (uninterruptable power supply), Inverters, White Goods, GFCI (ground fault current interrupters). The advantages of the VTD(S) Surge Protective Devices are: terminals construction for PCB mounting, a thermal decoupling device which protects VTD(S) against varistor failure in the event of abnormal overvoltage, VTD(S) also has the remote signalization capability.

Main Features

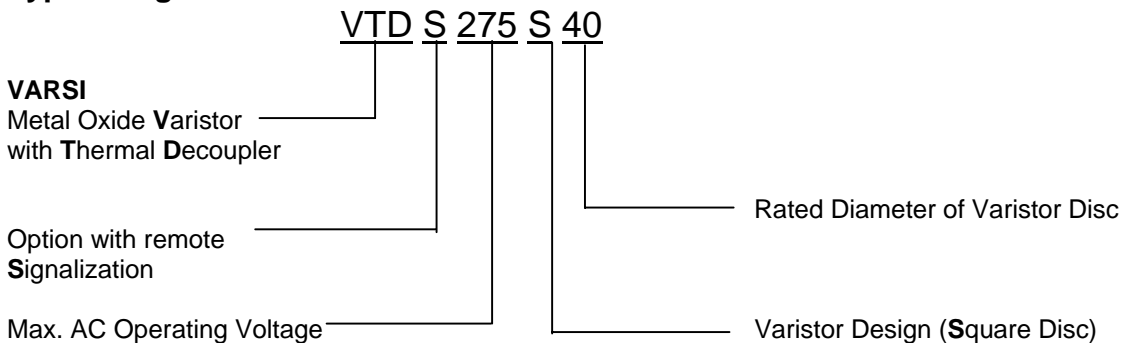
- Wide Operating Voltage Range V_{RMS} 75 V to 1100 V
- Very Good Clamping Voltage at 300A (8/20 μ s) 200 V to 2970 V
- High Max. Discharge Current Capability I_{max} (8/20 μ s) 40000A
- Terminals construction for PCB mounting
- Option With Decoupling Device with VTDS Signalization

General Technical Data

Tested in accordance with	IEC 61643-1 IEC 61051-1 and UL1449
Category IEC / VDE	III / D
Operating temperature	-40 ... +85°C
Response Time	< 25 ns
Mounting	on Printed Circuit Board



Type Designation





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Part Number	Maximum Ratings $T_A = +85^\circ\text{C} (+185^\circ\text{F})$					Characteristics $T_A = +25^\circ\text{C} (+77^\circ\text{F})$				
	Operating Voltage		Average Power Dissipation	Permissible Peak Current (8/20 μs)	Energy Absorption (2 ms)	Varistor Voltage (1 mA)		Maximum Clamping Voltage at Test Current (8/20 μs)		Typical Capacitance $f=1\text{kHz}$
	RMS Voltage	DC Voltage				V_N (V)	ΔV_N (%)	V_C (V)	I (A)	
	V_{RMS} (V)	V_{DC} (V)	P_{max} (W)	I_{max} (A)	W_{max} (J)					C (pF)
VTD75S40	75	100	1.4	40000	180	120	± 10	200	300	13000
VTD95S40	95	125	1.4	40000	220	150	± 10	250	300	11000
VTD115S40	115	150	1.4	40000	280	180	± 10	300	300	8000
VTD130S40	130	170	1.4	40000	320	205	± 10	340	300	5800
VTD140S40	140	180	1.4	40000	340	220	± 10	360	300	5400
VTD150S40	150	200	1.4	40000	370	240	± 10	395	300	5000
VTD175S40	175	225	1.4	40000	410	270	± 10	455	300	4200
VTDV230S4	230	300	1.4	40000	470	360	± 10	595	300	3400
VTD250S40	250	320	1.4	40000	505	390	± 10	650	300	3100
VTD275S40	275	350	1.4	40000	565	430	± 10	710	300	2900
VTD300S40	300	385	1.4	40000	600	470	± 10	775	300	2700
VTD320S40	320	420	1.4	40000	655	510	± 10	840	300	2400
VTD385S40	385	505	1.4	40000	815	620	± 10	1025	300	2000
VTD420S40	420	560	1.4	40000	930	680	± 10	1120	300	1900
VTD440S40	440	585	1.4	40000	950	715	± 10	1180	300	1800
VTD460S40	460	615	1.4	40000	1010	750	± 10	1240	300	1700
VTD510S40	510	670	1.4	40000	1040	820	± 10	1355	300	1600
VTD550S40	550	745	1.4	40000	1080	910	± 10	1500	300	1500
VTD625S40	625	825	1.4	40000	1100	1000	± 10	1650	300	1400
VTD680S40	680	895	1.4	40000	1130	1100	± 10	1815	300	1200
VTD750S40	750	1060	1.4	40000	1230	1200	± 10	1980	300	1100
VTD1100S40	1100	1465	1.4	40000	1850	1800	± 10	2970	300	800

All other voltages are available on request



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Dimensions

Part Number	Dimensions				
	D _{max} (mm)	H _{max} (mm)	T _{max} (mm)	L±1 (mm)	l _{min} (mm)
VTD75S40	37.5	39.0	13.0	6.9	44
VTD95S40	37.5	39.0	13.3	7.2	44
VTD115S40	37.5	39.0	13.6	7.5	44
VTD130S40	37.5	39.0	14.0	7.9	44
VTD140S40	37.5	39.0	14.1	7.95	44
VTD150S40	37.5	39.0	15.0	8.0	44
VTD175S40	37.5	39.0	15.4	8.4	44
VTDV230S4	37.5	39.0	15.9	8.9	44
VTD250S40	37.5	39.0	16.1	9.1	44
VTD275S40	37.5	39.0	16.3	9.3	44
VTD300S40	37.5	39.0	16.6	9.6	44
VTD320S40	37.5	39.0	16.8	9.9	44
VTD385S40	37.5	39.0	17.6	10.7	44
VTD420S40	37.5	39.0	18.0	11.1	44
VTD440S40	37.5	39.0	19.2	11.3	44
VTD460S40	37.5	39.0	19.4	11.5	44
VTD510S40	37.5	39.0	20.0	12.2	44
VTD550S40	37.5	39.0	20.4	12.4	44
VTD625S40	37.5	39.0	21.0	12.9	44
VTD680S40	37.5	39.0	21.5	13.5	44
VTD750S40	37.5	39.0	22.1	14.1	44
VTD1100S40	37.5	39.0	25.0	17.1	44

