



High Energy Suppressor Disc - SP40 Series

Description

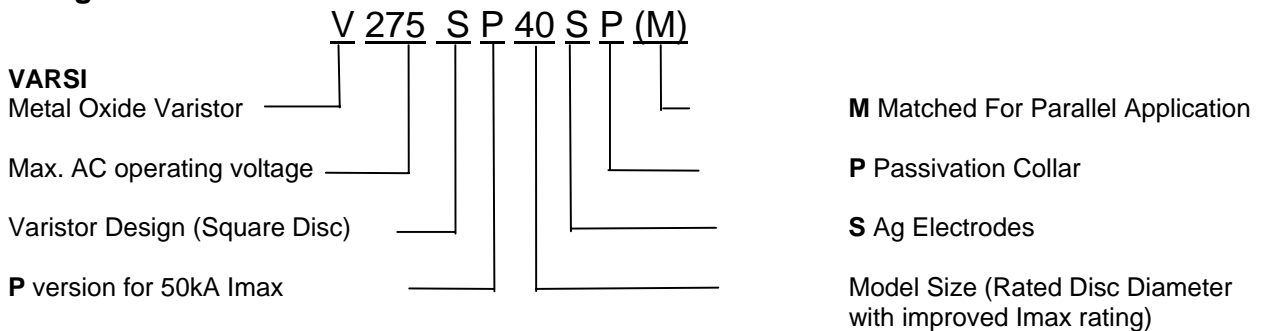
The High Energy Suppressor Discs SP40 series are metal oxide varistors designed for special applications according to IEC 61643-1 Class II requirements. They offer excellent surge protection for use in industrial and consumer electrical equipment, power distribution control equipment, security/fire alarm systems, railroad equipment, mobile power supply stations and oil drilling. The advantages of SP40 series are: increased I_{max} capability, good solderability (Ag), and passivation with glass (on request).



General Technical Data

Climatic Category	40/085/56	in accordance with IEC 60068-1
LCT	-40°C	
UCT	+85°C	
Damp Heat, Steady state (93% r.h., 40°C)	56 days	in accordance with IEC 60068-2-3
Operating temperature	-40 ... +85°C	in accordance with CECC 42 000
Storage temperature	-40 ... +125°C	
Electric strength	≥ 2.5 kV	in accordance with CECC 42 000
Insulation resistance	≥ 1.0 GΩ	in accordance with CECC 42 000
Response time	< 25 ns	
I _{max}	50kA	in accordance with IEC 61643-331(Class II)
I _n	20kA	in accordance with IEC 61643-331(Class II)

Designation



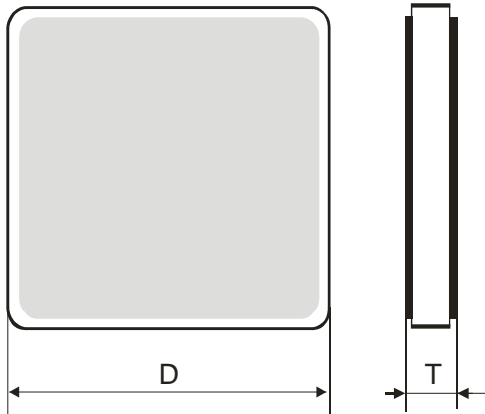


High Energy Suppressor Disc - SP40 Series

Technical Data

Part Number	Maximum Ratings TA = +85°C (+185°F)					Characteristics TA = +25°C (+77°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=1kHz
	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)	V _N (V)	ΔV _N (%)	V _C (V)	I (A)	C (pF)	
V130SP40	130	170	1.4	50000	320	205	± 10	340	300	5800
V140SP40	140	180	1.4	50000	340	220	± 10	360	300	5400
V150SP40	150	200	1.4	50000	370	240	± 10	395	300	5000
V175SP40	175	225	1.4	50000	410	270	± 10	455	300	4200
V210SP40	210	270	1.4	50000	440	330	± 10	540	300	3900
V230SP40	230	300	1.4	50000	470	360	± 10	595	300	3400
V250SP40	250	320	1.4	50000	505	390	± 10	650	300	3100
V275SP40	275	350	1.4	50000	565	430	± 10	710	300	2900
V300SP40	300	385	1.4	50000	600	470	± 10	840	300	2700
V320SP40	320	420	1.4	50000	655	510	± 10	840	300	2400
V385SP40	385	505	1.4	50000	815	620	± 10	1025	300	2000
V420SP40	420	560	1.4	50000	930	680	± 10	1120	300	1900
V440SP40	440	585	1.4	50000	950	715	± 10	1180	300	1800
V460SP40	460	615	1.4	50000	1010	750	± 10	1240	300	1700

Dimensions



Dimension Part Number	T mm (± 1)	D S40 mm (± 1)
V130D,S	1.4	33
V140D,S	1.6	33
V150D,S	2.4	33
V175D,S	2.5	33
V230D,S	2.7	33
V250D,S	3.1	33
V275D,S	2.7	33
V300D,S	2.9	33
V320D,S	3.1	33
V385D,S	3.7	33
V420D,S	4.0	33
V440D,S	4.2	33
V460D,S	4.4	33