

Surge arresters

Surge arresters for AC lines

Types	DSF A/P	DSB A 52	DSB P 53	DSB P 54
				
Dimensions HxWxD (mm)	90 x 18 x 72 [51] 90 x 36 x 72 [52] 90 x 54 x 72 [53] 90 x 72 x 72 [54]	90 x 36 x 72	90 x 54 x 72	90 x 72 x 72
Description	No backup fuse Surge arresters for AC lines single or 3phase network types TN-S; TT; IT; TN-C Removable cartridges No leakage current	Surge arresters for AC lines single phase. Removable cartridges	Surge arresters for AC lines three phase Removable cartridges	Surge arresters for AC lines three phase Removable cartridges
Output specifications				
Out (Alarm)	1 x SPDT relay	1 x SPDT relay (option)	1 x SPDT relay (option)	1 x SPDT relay (option)
General specifications				
SPD class	Class II	Class II	Class II	Class II
Max. continuous voltage Uc	150 VAC 300 VAC 385 VAC 460 VAC 550 VAC 750 VAC	275 VAC / 350 VDC 385 VAC / 500 VDC	275 VAC / 350 VDC 385 VAC / 500 VDC 440 VAC / 580 VDC	275 VAC / 350 VDC 385 VAC / 500 VDC 440 VAC / 580 VDC
I _n (8/20)	20 kA 10 kA [DSF5xCA750]	20 kA / pole	20 kA / pole	20 kA / pole
I _{max} (8/20)	50 kA 25 kA [DSF5xCA750]	40 kA / pole	40 kA / pole	40 kA / pole
I _{imp} (10/350)	-	-	-	-
Response time	< 25 ns	< 25 ms with GDT 25 ms (L-N), 100 ms (N-PE) without GDT	< 25 ms	< 25 ms with GDT 25 ms (L-N), 100 ms (N-PE) without GDT
Back-up fuse	Not required up to 200 kArms	125 A gL	125 A gL	125 A gL
Mounitng	DIN rail	DIN rail	DIN rail	DIN rail
Temperature range	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F
Approvals / Marks	CE, UR (UL 1449 3rd ED.), CSA	CE: IEC61643	CE: IEC61643	CE: IEC61643
References				
For ordering key details, please refer to www.productselection.net				

Surge arresters				
Surge arresters for PV systems			Surge arresters for communication lines	
Types	DSF D	DSC	DSB S	DSB DP
				
Dimensions HxWxD (mm)	90 x 36 x 72 [52] 90 x 54 x 72 [53]	90 x 72 x 72	90 x 12 x 71.5	90 x 12 x 71.5
Description	No backup fuse, 2-pole [52] or 3-pole [53] surge arresters for P.V. installations No leakage	Class I and II Surge arresters for DC systems	Surge arresters for RS485 communication lines Removable cartridges	Surge arresters for Dupline® and Smarthouse® communication lines Removable cartridges
Output specifications				
Out (Alarm)	1 x SPDT relay	1 x SPDT relay	None	None
General specifications				
SPD class	Class II	Class I, II	Class C1/C2/C3 (IEC 60643-21)	Class C1/C2/C3 (IEC 60643-21)
Max. continuous voltage U _c	600 VDC [600, 1200] 1000 VDC [1000] 1200 VDC [1200]	1000 V	6 VDC	18 VDC
I _n (8/20)	20 kA [600, 1200] 12.5 kA [1000]	20 kA / pole	10 kA / pole	10 kA / pole
I _{max} (8/20)	40 kA [600, 1200] 25 kA [1000]	40 kA / pole	20 kA / pole	20 kA / pole
I _{imp} (10/350)	-	12.5 kA / pole	-	-
Response time	< 25 ns	<25 ns	<1 ns	<1 ns
Back-up fuse	Not required up to 200 kArms	N.A.		
Mounitng	DIN rail	DIN rail	DIN rail	DIN rail
Temperature range	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F	-40°C to +80°C -40°F to +176°F
Approvals / Marks	CE, UR (UL 1449 3 rd ED.), UTE C 61-740-51, CSA	CE: IEC616431; UTE C61-740-51	CE: IEC 60643-21	CE: IEC 60643-21
References				
	DSF52XD600PV	DSC54CD1000PV	DSB51XXP	DSB51XXDP
	DSF52CD600PV	DSC54XD1000PV		
	DSF52XD1000PV			
	DSF52CD1000PV			
	DSF53XD1200PV			
	DSF53CD1200PV			