

LIGHTNING ARRESTER TYPE1,
12,5KA,LIGHTNING PROTECTION CLASS III AND IV,FOR
3-CONDUCTOR NETWORKS (L,N,PE),
UC 335V/264V AC (L-N/N-PE),
CONNECTOR FAULT DISPLAY

Technical data:		
product brand name		SETRON
Design of the product		Lightning arrester
Operating voltage		
• with AC / nominal value	V	240
Continuous operating voltage / with AC / maximum	V	335
• note		(L-N)
Supply voltage frequency	Hz	50 ... 60
Protection level		
• between N and L	kV	1.2
Apparent power consumption / in standby mode	mVA	268
Impulse discharge current		
• for 1-phase / at (8/20) μ s / maximum	kA	12.5
• between N and PE / for 1-phase / at (8/20) μ s / rated value	kA	50
• between L and N / for 1-phase / at (8/20) μ s / maximum	kA	50
• between N and PE / for 1-phase / at (8/20) μ s / maximum	kA	50
Surge withstand capability / at 6 kV / at (8/20) μ s	kV	1.7
Residual voltage		
• at (8/20) μ s	kV	1.2
• between L and PE / at (8/20) μ s	kV	2
• between L and PE / at (8/20) μ s	kV	0.6
• at 10 kA / at (8/20) μ s	kV	1.1
• between L and PE / at 10 kA / at (8/20) μ s	kV	1.5
• between N and PE / at 10 kA / at (8/20) μ s	kV	0.5
• at 5 kA / at (8/20) μ s	kV	1
• between L and PE / at 5 kA / at (8/20) μ s	kV	1.2
• between N and PE / at 5 kA / at (8/20) μ s	kV	0.5
• at 3 kA / at (8/20) μ s	kV	0.9
• between L and PE / at 3 kA / at (8/20) μ s	kV	1.1
• between N and PE / at 3 kA / at (8/20) μ s	kV	0.4

Dead time	ns	25
Degree of pollution		2
Overvoltage category / according to IEC 61010-1		III
Product component / fuse		No
Protection class IP		IP20
Insulation material		PA 6.6
Combustibility class acc. to UL 94		V0
Type of fusing / at input for supply voltage		160A80AGL/gG (*with feed-through wiring)
Short-circuit firmness		For 160gL: 25 kA rms
Ambient temperature	°C	-40 ... +80
Mounting type		Rail-mountable NS 35
• for rigid conductor / maximum	mm ²	35
• for rigid conductor / minimum	mm ²	1.5
• maximum	mm ²	25
• minimum	mm ²	1.5
Connectable AWG conductor cross-section / as coded AWG spec. / for grounding		
• finely stranded	mm ²	15 ... 2
Design of the thread		M5
Product component / remote-signaling contact		No
Size of the surge arrester		2MW
SPD classification / according to EN 61643-11		
• Test Class I, Type 1		Yes
• test class II type 2		No
• Test Class III, Type 3		No
Net weight	g	348

Certificates/approvals:

General Product Approval



Declaration of Conformity

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SD7412-2>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/5SD7412-2/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SD7412-2

last change:

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