

Advantages

The D-fuse system was originally designed for a rated voltage of 500 V AC.

m.schneider's new concept of energy saving fuse links 400 V AC is now also implemented for the range of D-fuse links.



D-fuse links 400 V AC 250 V DC – energy saving

“gG” – general application (e.g. protection of cables and power lines)

- ◆ Power dissipation considerably reduced compared to fuse links 500 V AC "gG"
- ◆ Reduced energy consumption - cost reduction
- ◆ Low heating (reduction up to 20%)
- ◆ Easy replacement of D-fuse links 500 V AC– identical dimensions and time/ current characteristics
- ◆ Combination of D-fuse links 400 V AC and 500 V AC AC possible (step by step replacement)
- ◆ Secure cut off of short circuits and over currents
- ◆ Clear indication of operation condition due to coloured indicator on top contact
- ◆ Resistant to ageing
- ◆ Free of lead, cadmium, mercury, chrome 6 (rohs conformity)

subject to alteration



Technical data D-fuse system

	NDZ ¹⁾	DII	DIII	DIV ¹⁾	DV ¹⁾
nominal voltage	AC/DC 500 V	400 V AC 250 V DC AC/DC 500 V	400 V AC 250 V DC AC/DC 500 V	400 V AC 250 V DC AC/DC 500 V	AC/DC 500 V
nominal current	2 up to 40 A	2 up to 25A	32 up to 63A	80 up to 100A	125 up to 200A
nominal short breaking capacity	AC 4 kA, DC 1,6 kA	AC 50 kA, DC 8 kA	AC 50 kA, DC 8 kA	AC 50 kA, DC 8 kA	AC 50 kA, DC 8 kA
characteristic	gG, gR	gG, gR	gG, gR	gG, gR	gG, gR
rated frequency	45 up to 62 Hz	45 up to 62 Hz	45 up to 62 Hz	45 up to 62 Hz	45 up to 62 Hz
standards	VDE 0635, DIN 49 360	IEC/EN 60 269, VDE 0636	IEC/EN 60 269, VDE 0636	IEC/EN 60 269, VDE 0636	DIN 49 515
screw caps	thread E16 (K I) max. 25 A	thread E27 (K II), max. 25 A	thread E33 (K III), max. 63 A	thread R 1,25" (K IV), max. 100 A	
adapter inserts	identification of nominal currents ratings				
<u>design</u>					
fuse link:	screw in fuse with indicator for switching condition (disc shaped indicator)				
screw cap:	ceramic design with testing hole and sealing hole (optional)				
<u>materials used:</u>					
insulation components (links, screw caps, bases)	porcelain				
arc extinguishing material	quartz sand				
contacts	brass/copper, nickel-plated/silver-plated				
window	glass				
fuse element	copper, silver				
thread components	nickel-plated brass				
snap on device for DIN-rails	spring steel zinc coated				
screws	steel galvanized				
adapter rings, adapter inserts, holding chuck	ceramic				
screw removal and insertion key	polystyrol				
all products are free of lead, cadmium, mercury, chrome- 6					

1) for application in existing distribution units

subject to alteration



D-fuse-system

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D-fuse links 400 V AC/250 V DC

energy saving → reduced power dissipation, extended life endurance, low heating

“gG” general application (e.g. protection of cables and power lines)



042010



042025

D-fuse links 400 V AC, 250 V DC “gG” energy saving				E 27	
article-number	design		weight kg/piece	package pieces	
	DII gG	nominal current			
042002	2 A	pink	0.03	5/500	
042004	4 A	brown	0.03	5/500	
042006	6 A	green	0.03	5/500	
042010	10 A	red	0.03	5/500	
042011	10 A / 6 A ¹⁾	red/green	0.03	5/500	
042013	13 A	black	0.03	5/500	
042016	16 A	grey	0.03	5/500	
042020	20 A	blue	0.03	5/500	
042025	25 A	yellow	0.03	5/500	



043032



043063

D-fuse links 400 V AC, 250 V DC “gG” energy saving				E 33	
article-number	design		weight kg/piece	package pieces	
	D III gG	nominal current			
043032	32 A	black	0.05	5/250	
043035	35 A ²⁾	black	0.05	5/250	
043040	40 A ³⁾	black	0.05	5/250	
043050	50 A	white	0.05	5/250	
043063	63 A	copper	0.05	5/250	



044080



044100

D-fuse links AC 400 V, 250 V DC “gG” energy saving				R 11/4	
article-number	design		weight kg/piece	package pieces	
	D IV gG	nominal current			
044080	80 A	silver	0.1	10	
044100	100 A	red	0.1	10	

- 1) $I_N = 10$ A, dimension of bottom contact is equivalent to that of 6 A fuse link
- 2) $I_N = 32$ A, dimension of bottom contact is equivalent to that of 35 A fuse link
- 3) $I_N = 40$ A, dimension of bottom contact is equivalent to that of 35 A fuse link

subject to alteration



Specification

The D-fuse system is the oldest of the screw fuse systems. It is still used in many installations. Applications are low voltage distribution units, where non trained persons are allowed to change the fuse links.

The production programme of the D-fuse system comprises:

- ◆ Fuse links "gG" and "gR"
- ◆ Fuse links "rapid" and "slow" – for existing distribution units
- ◆ Screw caps
- ◆ Fuse bases
- ◆ Adapter screws
- ◆ Adapter rings
- ◆ Cartridges
- ◆ Adapter screw wrench
- ◆ Holding chuck

Characteristic:

The first letter classifies the function, the second the mode of operation.
gG ... full range protection of cables and power lines (G ... General)
gR ... full range protection of semi conductors (R ... Rectifier)

Colour system for rated currents:

2 A	pink
4 A	brown
6 A	green
10 A	red
13 A	black
16 A	grey
20 A	blue
25 A	yellow
32/35/40 A	black
50 A	white
63 A	copper
80 A	silver
100A	rot

subject to alteration