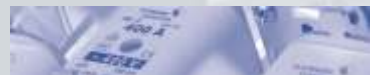




## CYLINDRICAL FUSE-SYSTEM



### EUROFUSE®



### NH-FUSE MATERIAL



### MULTIBLOC®



### MULTIVERT®



### BSL



### D/D0-FUSE-SYSTEM



### MULTIFIX® 60



### MINIATURE FUSE LINKS



### HIGH VOLTAGE FUSE LINKS



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# Cylindrical fuse-system



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## Product presentation Cylindrical fuse-system

**m.schneider** offers complete systems in the field of Cylindrical fuse-systems.

IEC/EN 60 269-1, -2, NFC 61.201, UNE 21.103

Nominal voltage 400 V AC, size 00

690 V AC, size 0, 1, 2

The product portfolio comprises:

### ◆ Fuse links – optional with indicator

Breaking capacity                      AC 20 kA, size 00  
    AC 120 kA, size 0, 1, 2

### ◆ „gG“ – protection of cables and power lines

size/dimension/nominal current:

- 00 / 8,5 x 31,5 / 2–25 A
- 0 / 10,3 x 38 / 1–32 A
- 1 / 14,3 x 51 / 2–50 A
- 2 / 22,2 x 58 / 6–125 A

### ◆ „aM“ – Motor protection (partial range fuses)

size/dimension/nominal current:

- 00 / 8,5 x 31,5 / 2–25 A
- 0 / 10,3 x 38 / 1–32 A
- 1 / 14,3 x 51 / 1–50 A
- – 2 / 22,2 x 58 / 2–125 A

### ◆ Fuse-switch disconnecter (holder) for cylindrical fuse links

size 00 for cylindrical fuse links 8,5 x 31,5 mm

size 0 for cylindrical fuse links 10,3 x 38 mm

size 1 for cylindrical fuse links 14,3 x 51 mm

size 2 for cylindrical fuse links 22,2 x 58 mm

subject to alteration





## Cylindrical fuse-system

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### Characteristics and function



Cylindrical fuse links are used for the protection of cables, motors and LV-networks against overcurrents and short-circuits.

#### „gG“ General purpose (e.g. protection of cables and LV - networks)

Cylindrical fuse links "gG" are used for the protection of cables, motors and LV-networks. They limit and cut off unacceptable overcurrents and short-circuit currents up to their nominal breaking capacity. Cylindrical fuse links "gG" also protect electrical equipment and installations against the dynamic effect of high short-currents.

#### „aM“ Motor and switchgear protection (partial range fuses)

Cylindrical fuse links "aM" are partial range fuses. They protect electrical devices in case of unacceptable high short-circuits against destruction due to high current limiting and low thermal let-through values. They cut off currents of more than  $6.3 \times I_N$  until the maximum breaking capacity (rated breaking capacity). Cylindrical fuse links "aM" are mainly used for the protection of installation and switch gear in motor circuit currents. For classification of the cylindrical fuse links the nominal current of the fuse link can be selected respective to the nominal current of the motor.

subject to alteration

# Cylindrical fuse-system

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## Application and function

- ◆ Application:
  - ◆ Industrial use
  - ◆ Installation
  - ◆ Control system
  - ◆ Machines
  - ◆ Equipment
- ◆ Space saving application by high breaking capacity because of short dimensions.

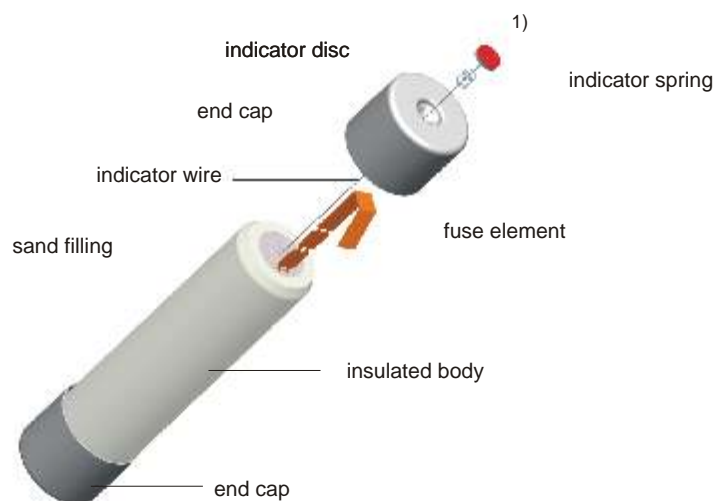


## Specification

### Assembly

- ◆ Insulated body of ceramic
- ◆ Brazed end caps (CuZn37), silver plated with 5 micrometer layer thickness
- ◆ Silver plated copper fuse element
- ◆ Indicator (optional)
  - ◆ Indicator disc of aluminium (AlMg3), corrosion-resistant, with colour mark red
  - ◆ Indicator spring : spring-bronze, corrosion proof
  - ◆ Indicator conductor: resistance wire, corrosion proof

## Cylindrical fuse link



1) Indicator- optional

subject to alteration



## Cylindrical fuse-system

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Cylindrical fuse links are unleaded and cadmium-free.



### Time /current characteristics

1. The time/current characteristic „gG”<sup>1)+2)</sup> is a protection characteristic exactly adjusted to the cable, which guarantees maximum usage of the cable as well as the certain disconnection prior to any possible cable damage (thermic and electrodynamic) (time/ current characteristic "gG" see page 17-18).
2. The time/current characteristic „aM”<sup>1)+2)</sup> is adapted to the starting current of motors (passed by the fuse) and to the short circuit protection of the motor or switch gear (time/current characteristics "aM" see page 24-25).

1) IEC 60.269-1 Low voltage fuses - part 1 general requirements

2) IEC 60.269-2 Low voltage fuses - part 2 - 1

subject to alteration

**IEC/EN 60 269-1, IEC/EN 60 269-2, IEC/EN 60 269-2-1,  
NFC 63.210, NFC 63.211, UNE 21.103**

## Technical data Cylindrical fuse-system

size	00	0	1	2
Cylindrical fuse link „gG“				
dimension (mm)	8,5 x 31,5	10,3 x 38	14,3 x 51	22,2 x 58
rated current	2–25 A	1–32 A	2–50 A	6–125 A
rated voltage AC	400 V	400 V	400 V	400 V
rated breaking capacity AC	20 kA	120 kA	120 kA	120 kA
Cylindrical fuse link „aM“				
dimension (mm)	–	10,3 x 38	14,3 x 51	22,2 x 58
rated current	2–25 A	1–32 A	2–50 A	6–125 A
rated voltage AC	–	400 V	400 V	400 V
max. rated breaking capacity AC	–	120 kA	120 kA	120 kA



## Technical standards

Cylindrical fuse links are designed and produced in accordance with the latest national and international standards. Cylindrical fuse links are tested and certified in accordance with IEC/EN 60 269-1, -2, NFC 61.201, UNE 21.103.

subject to alteration





## Cylindrical fuse-system

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### Advantages of Cylindrical fuse links



- ◆ Low power dissipation and high contact capacity due to silver plated fuse elements and silver plated end caps
- ◆ High breaking capacity
- ◆ Quick replacement using the colour banding to identify the fuse rating
- ◆ Environmentally compatible
- ◆ Isolated body suitable for high mechanical and thermal impacts
- ◆ Silver plated copper alloy end caps
- ◆ Accurate current limiting effects due to a special design of fuse elements
- ◆ Clear indication of operating status due to a red indicator on the end cap (indicator versions only)

# Cylindrical fuse-system

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## ◆ Resistant to ageing

The cylindrical fuse links are especially resistant to ageing due to the use of a special alloy fuse element.

## ◆ Selectivity

[m.schneider](#) cylindrical fuse links "gG" have a selectivity of 1:1,6 (proportion of nominal current switched in-line) among or to other „gG“-fuse links.

## ◆ High current limiting

The high current limiting of the cylindrical fuse links enables a optimum mechanical dimensioning of the networks due to the strong limiting of the electro dynamic short circuit effects.

## ◆ High rated breaking capacity

[m.schneider](#) cylindrical fuse links are able to cut off short circuit currents up to 20 kA /size 00 and 120 kA/sizes 0-2. This value exceeds those occurring in normal use.

















subject to alteration



## Cylindrical fuse-system

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### Colour system for rated currents:

Colour system for rated currents for cylindrical fuse links		
Rated current	Colour	
1 A		purple
2 A		pink
4 A		brown
6 A		green
8 A		green/green
10 A		red
12 A		blue/blue
16 A		grey
20 A		blue
25 A		yellow
32 A		black
40 A		black/black
50 A		white
63 A		copper
80 A		silver
100 A		red/red
125 A		yellow/yellow

subject to alteration

# Cylindrical fuse-system

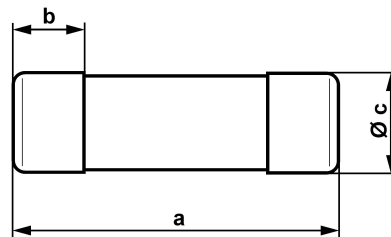
12



## Dimensions

### Cylindrical fuse links

M 02041



size	dimensions	a / mm	b / mm	c / mm
00	8.5 x 31.5	31.5	6.3	8.5
0	10.3 x 38	38	9.4	10.3
1	14.3 x 51	51	11.3	14.3
2	22.2 x 58	58	14.7	22.2

size	dimensions	thickness of material of brazen cap
00	8.5 x 31,5	0.3 mm
0	10.3 x 38	0.3 mm
1	14.3 x 51	0.5 mm
2	22.2 x 58	0.5 mm

subject to alteration

## Cylindrical fuse links 400 V AC – *energy saving*, „gG” – COLOR-System



Cylindrical fuse links „gG“		size 00 <sup>1)</sup>	without indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
780602	2 A	0.004	10
780604	4 A	0.004	10
780606	6 A	0.004	10
780608	8 A	0.004	10
780610	10 A	0.004	10
780612	12 A	0.004	10
780616	16 A	0.004	10
780620	20 A	0.004	10
780625	25 A	0.004	10

colour codes see page 11

1) Dimensions: size 00: Ø = 8,5 mm length = 31,5 mm

\*) weight = one piece

subject to alteration



# Cylindrical fuse-system

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## Cylindrical fuse links 400 V AC – *energy-saving*, „gG” – COLOR-System



Cylindrical fuse links „gG“ size 0 <sup>1)</sup>			witout indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
780001	1 A	0.01	10
780002	2 A	0.01	10
780004	4 A	0.01	10
780006	6 A	0.01	10
780008	8 A	0.01	10
780010	10 A	0.01	10
780012	12 A	0.01	10
780016	16 A	0.01	10
780020	20 A	0.01	10
780025	25 A	0.01	10
780032	32 A	0.01	10



Cylindrical fuse links „gG“ size 0 <sup>1)</sup>			with indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
780102	2 A	0.01	10
780104	4 A	0.01	10
780106	6 A	0.01	10
780108	8 A	0.01	10
780110	10 A	0.01	10
780112	12 A	0.01	10
780116	16 A	0.01	10
780120	20 A	0.01	10
780125	25 A	0.01	10
780132	32 A	0.01	10

colour codes see page 11

1) Dimensions: size 0: Ø = 10,3 mm length= 38 mm

\*) weight = one piece

subject to alteration

## Cylindrical fuse links 400 V AC – energy-saving, „gG” – COLOR-System



Cylindrical fuse links „gG“ size 1 <sup>1)</sup>			without indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
781002	2 A	0.02	10
781004	4 A	0.02	10
781006	6 A	0.02	10
781008	8 A	0.02	10
781010	10 A	0.02	10
781012	12 A	0.02	10
781016	16 A	0.02	10
781020	20 A	0.02	10
781025	25 A	0.02	10
781032	32 A	0.02	10
781040	40 A	0.02	10
781050	50 A	0.02	10



Cylindrical fuse links „gG“ size 1 <sup>1)</sup>			with indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
781102	2 A	0.02	10
781104	4 A	0.02	10
781106	6 A	0.02	10
781108	8 A	0.02	10
781110	10 A	0.02	10
781112	12 A	0.02	10
781116	16 A	0.02	10
781120	20 A	0.02	10
781125	25 A	0.02	10
781132	32 A	0.02	10
781140	40 A	0.02	10
781150	50 A	0.02	10

colour codes see page 11

1) Dimensions: size1: Ø = 14,3 mm length= 51 mm

\*) weight = one piece

subject to alteration

# Cylindrical fuse-system

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## Cylindrical fuse links 400 V AC – *energy-saving*, „gG” – COLOR-System



Cylindrical fuse links „gG“ size 2 <sup>1)</sup>		without indicator	
article number	I <sub>N</sub>	weight*) kg	package pieces
782006	6 A	0.06	10
782008	8 A	0.06	10
782010	10 A	0.06	10
782012	12 A	0.06	10
782016	16 A	0.06	10
782020	20 A	0.06	10
782025	25 A	0.06	10
782032	32 A	0.06	10
782040	40 A	0.06	10
782050	50 A	0.06	10
782063	63 A	0.06	10
782080	80 A	0.06	10
782090	100 A	0.06	10
782092	125 A	0.06	10



Cylindrical fuse links „gG“ size 2 <sup>1)</sup>		with indicator	
article number	I <sub>N</sub>	weight*) kg	package pieces
782106	6 A	0.06	10
782108	8 A	0.06	10
782110	10 A	0.06	10
782112	12 A	0.06	10
782116	16 A	0.06	10
782120	20 A	0.06	10
782125	25 A	0.06	10
782132	32 A	0.06	10
782140	40 A	0.06	10
782150	50 A	0.06	10
782163	63 A	0.06	10
782180	80 A	0.06	10
782190	100 A	0.06	10
782192	125 A	0.06	10

colour codes see page 11

1) Dimensions: size 2: Ø = 22,2 mm lenght= 58 mm

\*) weight = one piece

subject to alteration



## Cylindrical fuse-system

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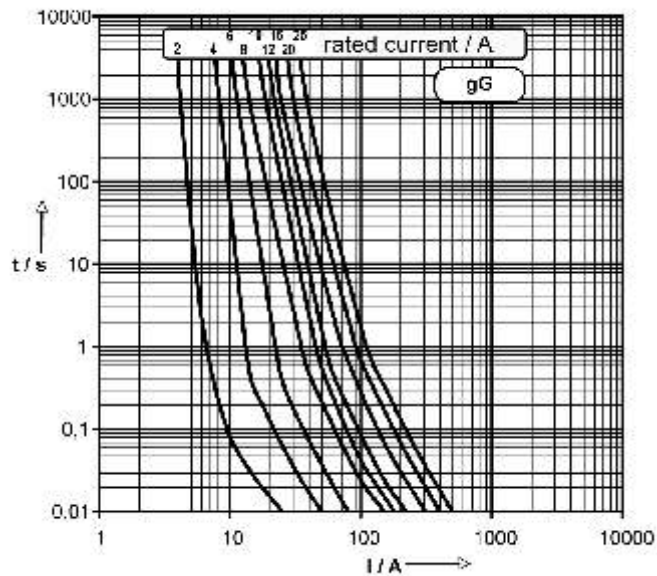
### Time/current characteristics

Cylindrical fuse links

400 V AC

size 00

„gG“

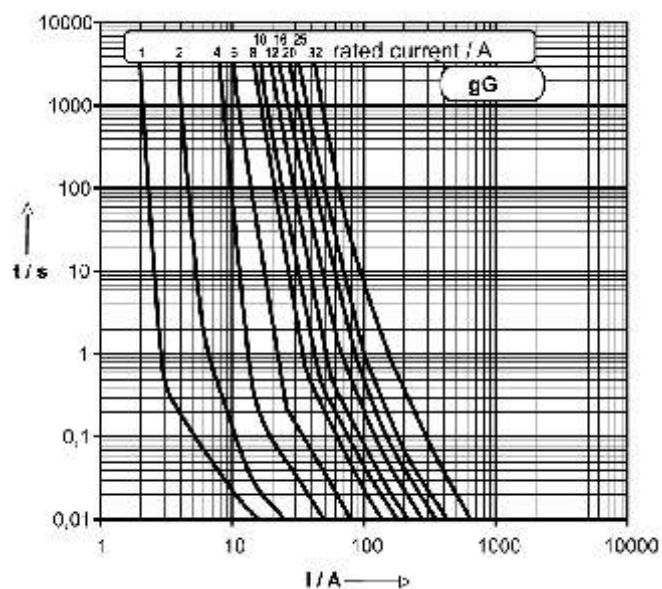


Cylindrical fuse links

400 V AC

size 0

„gG“



The average time/current characteristic applies to an ambient air temperature of  $20 \pm 5^\circ \text{C}$  and to the requirements for cross sectional areas of cables and conductors being used in the apparatus.

subject to alteration

# Cylindrical fuse-system

18



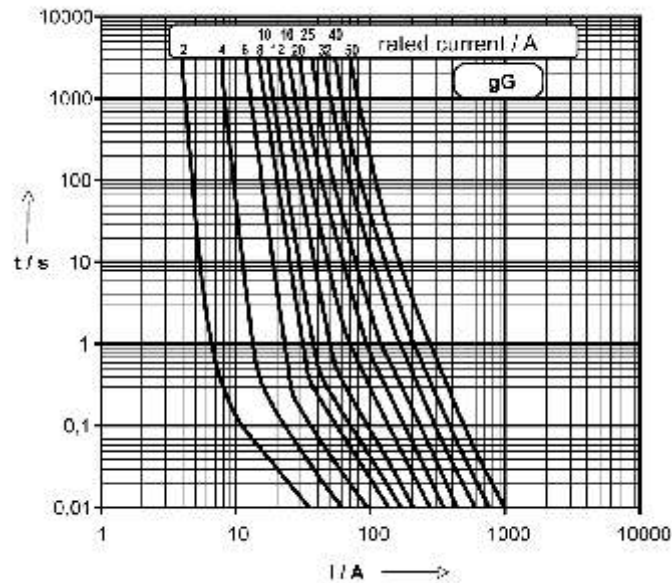
## Time/current characteristics

Cylindrical fuse links

400 V AC

size 1

„gG“

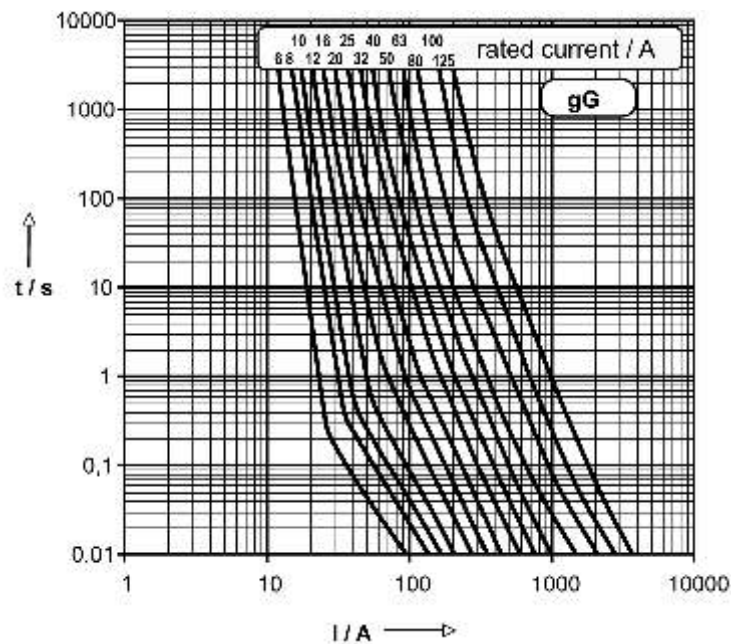


Cylindrical fuse links

400 V AC

size 2

„gG“



The average time/current characteristic applies to an ambient air temperature of  $20 \pm 5^\circ \text{C}$  and to the requirements for cross sectional areas of cables and conductors being used in the apparatus.

subject to alteration





## Cylindrical fuse-system

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### Power dissipation $P_n$ 400 V AC „gG“

Measured values are those of rated power dissipation under load with nominal fuse current (rated current) – AC 50 Hz after thermal equilibrium is attained.

(Terminal connection and testing conditions in accordance with EN 60 269-1).

rated current in Ampere	$P_n$ in Watts			
	size			
	8,5 x 31,5	10,3 x 38	14,3 x 51	22,2 x 58
	size 00	size 0	size 1	size 2
1		0.4		
2	0.6	0.5	0.8	
4	0.9	0.5	2.0	
6	1.4	1.6	2.1	2.2
8	1.2	1.3	1.8	2.0
10	2.0	2.4	2.0	2.5
12	2.1	2.7	2.6	3.1
16	1.3	1.6	2.0	2.3
20	1.6	1.9	2.4	2.6
25	2.1	2.6	3.0	3.4
32		2.8	3.5	3.6
40			4.3	3.8
50			4.5	4.7
63				7.0
80				8.6
100				6.4
125				8.8

subject to alteration



## Cylindrical fuse-system

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### Cylindrical fuse links 400 V AC – energy-saving, „aM” – COLOR-System



780210



780216



780225

Cylindrical fuse links „aM“ size 0 <sup>1)</sup>		with indicator	
article number	I <sub>N</sub>	weight <sup>*)</sup> kg	package pieces
780201	1 A	0.01	10
780202	2 A	0.01	10
780204	4 A	0.01	10
780206	6 A	0.01	10
780208	8 A	0.01	10
780210	10 A	0.01	10
780212	12 A	0.01	10
780216	16 A	0.01	10
780220	20 A	0.01	10
780225	25 A	0.01	10
780232	32 A	0.01	10



780325

Cylindrical fuse links „aM“ size 0 <sup>1)</sup>		with indicator	
article number	I <sub>N</sub>	weight <sup>*)</sup> kg	package pieces
780301	1 A	0.01	10
780302	2 A	0.01	10
780304	4 A	0.01	10
780306	6 A	0.01	10
780308	8 A	0.01	10
780310	10 A	0.01	10
780312	12 A	0.01	10
780316	16 A	0.01	10
780320	20 A	0.01	10
780325	25 A	0.01	10
780332	32 A	0.01	10

colour codes see page 11

1) Dimensions: size 0: Ø = 10,3 mm length= 38 mm

\*) weight = one piece

subject to alteration

# Cylindrical fuse-system

22



## Cylindrical fuse links 400 V AC – energy-saving, „aM” – COLOR-System



Cylindrical fuse links „aM“ size 1 <sup>1)</sup>			without indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
781201	1 A	0.02	10
781202	2 A	0.02	10
781204	4 A	0.02	10
781206	6 A	0.02	10
781208	8 A	0.02	10
781210	10 A	0.02	10
781212	12 A	0.02	10
781216	16 A	0.02	10
781220	20 A	0.02	10
781225	25 A	0.02	10
781232	32 A	0.02	10
781240	40 A	0.02	10
781250	50 A	0.02	10



Cylindrical fuse links „aM“ size 1 <sup>1)</sup>			with indicator
article number	I <sub>N</sub>	weight*) kg	package pieces
781302	2 A	0.02	10
781304	4 A	0.02	10
781306	6 A	0.02	10
781308	8 A	0.02	10
781310	10 A	0.02	10
781312	12 A	0.02	10
781316	16 A	0.02	10
781320	20 A	0.02	10
781325	25 A	0.02	10
781332	32 A	0.02	10
781340	40 A	0.02	10
781350	50 A	0.02	10

1) Dimensions: size 1: Ø = 14,3 mm lenght= 51 m

\*) weight = one piece

subject to alteration



## Cylindrical fuse-system

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### Cylindrical fuse links 400 V AC – energy-saving, „aM” – COLOR-System



782204



782232



782292



782308



782320



78239

Cylindrical fuse links „aM” size 2 <sup>1)</sup>		without indicator	
article number	I <sub>N</sub>	weight*) kg	package pieces
782202	2 A	0.06	10
782204	4 A	0.06	10
782206	6 A	0.06	10
782208	8 A	0.06	10
782210	10 A	0.06	10
782212	12 A	0.06	10
782216	16 A	0.06	10
782220	20 A	0.06	10
782225	25 A	0.06	10
782232	32 A	0.06	10
782240	40 A	0.06	10
782250	50 A	0.06	10
782263	63 A	0.06	10
782280	80 A	0.06	10
782290	100 A	0.06	10
782292	125 A	0.06	10

Cylindrical fuse links „aM” size 2 <sup>1)</sup>		with indicator	
article number	I <sub>N</sub>	weight*) kg	package pieces
782306	6 A	0.06	10
782308	8 A	0.06	10
782310	10 A	0.06	10
782312	12 A	0.06	10
782316	16 A	0.06	10
782320	20 A	0.06	10
782325	25 A	0.06	10
782332	32 A	0.06	10
782340	40 A	0.06	10
782350	50 A	0.06	10
782363	63 A	0.06	10
782380	80 A	0.06	10
782390	100 A	0.06	10
782392	125 A	0.06	10

1) Dimensions: size 2: Ø = 22,2 mm length = 58 mm

\*) weight = one piece

subject to alteration



# Cylindrical fuse-system

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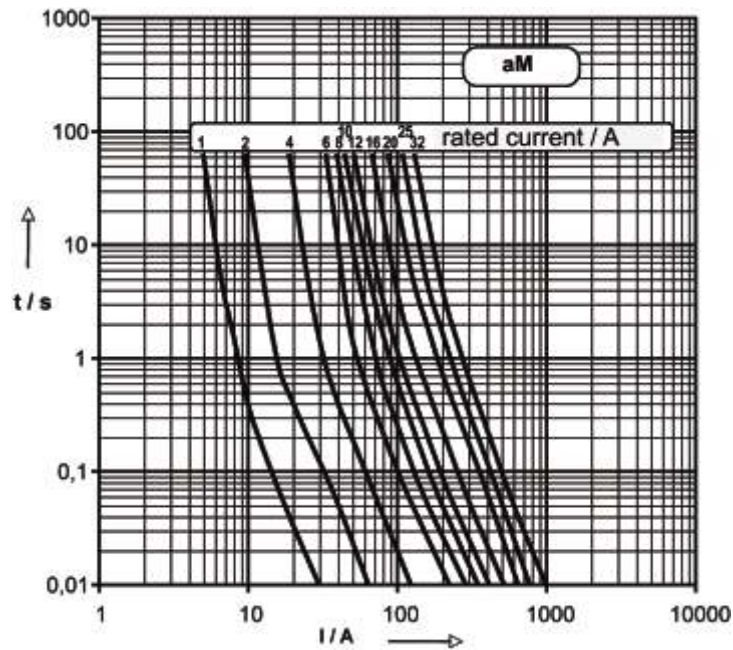
## Time/current characteristics

Cylindrical fuse links

400 V AC

size 0

„aM“

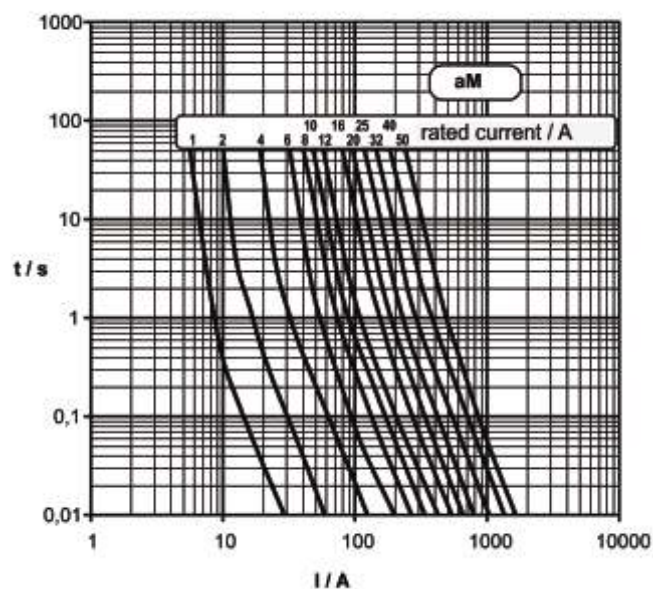


Cylindrical fuse links

400 V AC

size 1

„aM“



The average time/current characteristic applies to an ambient air temperature of  $20 \pm 5^\circ \text{C}$  and to the requirements for cross sectional areas of cables and conductors being used in the apparatus.

subject to alteration



## Cylindrical fuse-system

25

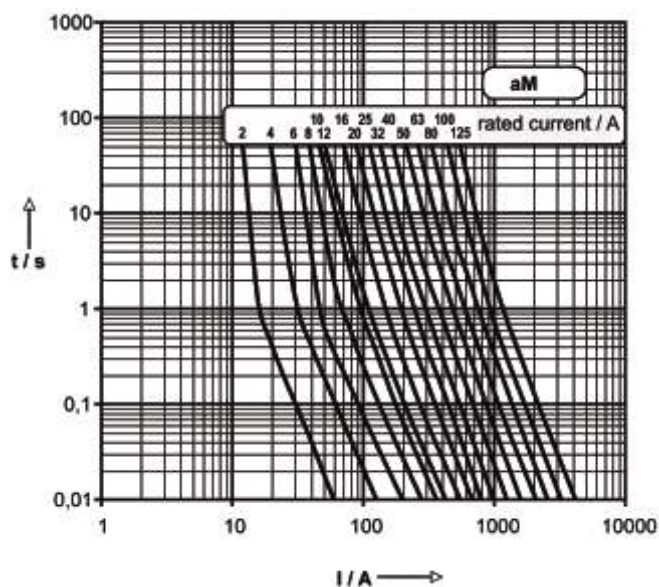
### Time/current characteristics

Cylindrical fuse links

400 V AC

size 2

„aM“



The average time/current characteristic applies to an ambient air temperature of  $20 \pm 5^\circ \text{C}$  and to the requirements for cross sectional areas of cables and conductors being used in the apparatus.

subject to alteration

# Cylindrical fuse-system

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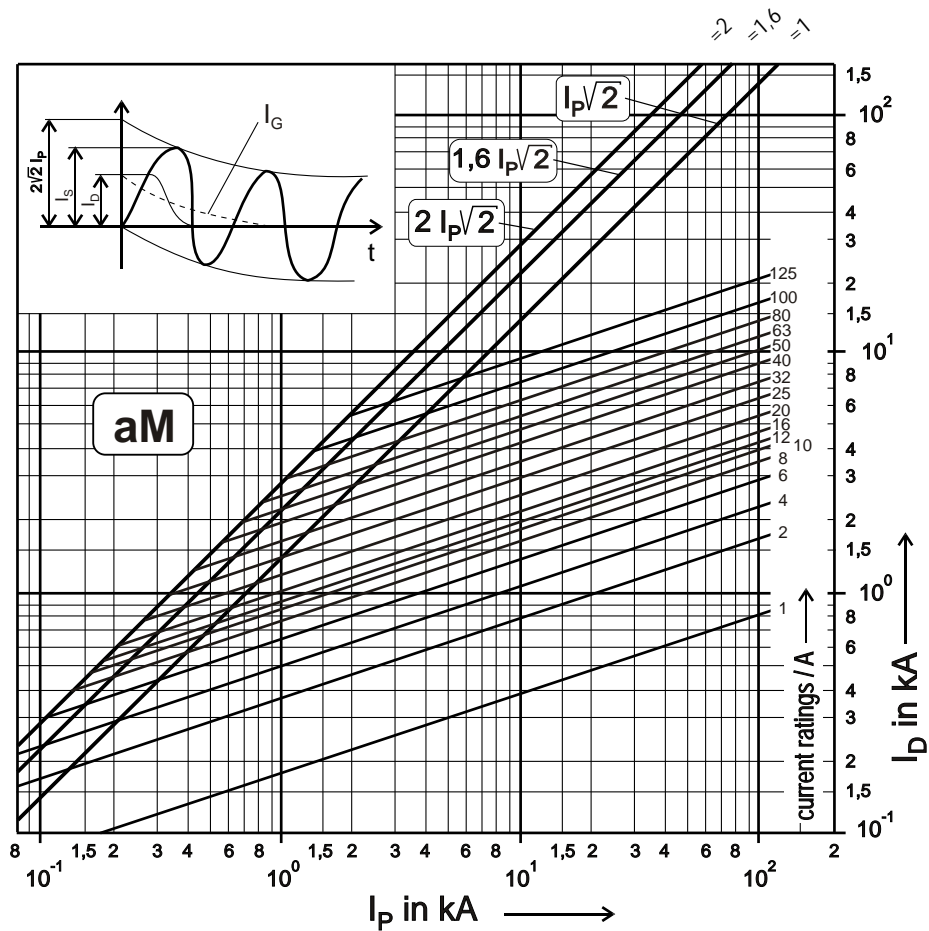


## Current limiting diagram

Cylindrical fuse links

400 V AC

„aM“



$I_D$  let-through current

$I_G$  value of DC component

$I_p$  prospective short-circuit current

$I_S$  short-circuit peak current =  $I_p \cdot \sqrt{2}$

$k = 2$  für  $\cos \phi = 0$ ;  $k = 1$  für  $\cos \phi = 1$

The prospective short circuit is the value of the current that would flow, if there was no protection in the circuit.

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## Cylindrical fuse-system

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### Power dissipation $P_n$ 400 V AC „aM“

Measured values are those of rated power dissipation under load with nominal fuse current (rated current) – AC 50 Hz after thermal equilibrium is attained.

(Terminal connections and testing conditions in accordance with EN 60 269-1).

Rated current in Ampere	$P_n$ in Watts		
	size		
	10,3 x 38	14,3 x 51	22,2 x 58
	size 0	size 1	size 2
1	0.1		
2	0.2	0.2	
4	0.3	0.3	
6	0.4	0.4	0.4
8	0.5	0.5	0.5
10	0.6	0.6	0.6
12	0.6	0.7	0.7
16	0.8	0.9	0.9
20	1.2	1.2	1.2
25	1.5	1.4	1.6
32	1.9	1.7	1.9
40		2.0	2.2
50		2.8	2.8
63			4.2
80			5.8
100			6.4
125			9.0

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# Cylindrical fuse-system

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## Fuse switch disconnecter for cylindrical fuse links

### Specification

- ◆ Direct installation onto DIN rails 35 mm to DIN 46 277
  - size 2 also available for bottom fixing with screws
- ◆ Direct cable termination with respective terminal clamps via recessed head screws
- ◆ Touch protection IP 20
- ◆ Materials used for contacts are of high quality
- ◆ Sealing is possible even when switch is in operational mode
- ◆ Reduced heating even under permanent maximum current load



### Advantages

- ◆ Reduced self-heating
- ◆ Reduced width of module size 00 = 17,5 mm
- ◆ High safety during operation
  - live parts cannot be touched even when switch is in open position
- ◆ Fast and easy change of fuse links
- ◆ Single pole, double pole and triple pole units available
- ◆ Design with additional pole for disconnection of neutral conductor

Installation dimension for fuse switch disconnecter for cylindrical fuse links

	size 00	size 0	size 1	size 2
width	17.5	17.5	27	35.6
height	81	81	94	120.4

Comments: Technical data fuse switch disconnecters for cylindrical fuse links see page 29

- 1) Rated operational currents of fuse switch are valid for rated operational voltage of fuse links 400 V.  
Rated operational currents of fuse switch and fuse links are reduced by rated operational current  $U_e$  of 500 V  
for size 00 up to 20 A, for size 0 up to 25 A, for size 1 up to 50 A and for size 2 up to 50 A.
- 2) rated operational voltages  $U_e$  and rated operational currents  $I_e$  quoted in column utilization category refer to the max. possible values of fuse-links  
of the respective sizes.





## Cylindrical fuse-system

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in accordance with IEC/EN 60 947-1,60 947-3

### Technical data fuse switch disconnecter for cylindrical fuse links



size			00	0	1	2
rated operational current <sup>1)</sup>			25 A	32 A	50 A	125 A
utilization category	rated operational-					
	voltage U <sub>e</sub> <sup>2)</sup>	current I <sub>e</sub> <sup>2)</sup>				
AC 22 B	400 V	I <sub>e</sub> =	25 A	32 A	50 A	-
AC 22 B	500 V	I <sub>e</sub> =	20 A	25 A	50 A	-
AC 22 B	690 V	I <sub>e</sub> =	-	10 A	25 A	-
AC 21 B	400 V	I <sub>e</sub> =	-	-	-	125 A
AC 21 B	500 V	I <sub>e</sub> =	-	-	-	100 A
AC 21 B	690 V	I <sub>e</sub> =	-	-	-	50 A
rated operational voltage U <sub>e</sub>			500 V	690 V	690 V	690 V
rated impulse withstand voltage U <sub>imp</sub>			8 kV	8 kV	8 kV	8 kV
rated frequency			50 Hz	50 Hz	50 Hz	50 Hz
rated short time withstand current with neutral conductor I <sub>cw</sub>			240 A	300 A	600 A	1200 A
rated short circuit making capacity with fuse links			50 kA	100 kA	100 kA	100 kA
max. cross section of terminal frame clamp			max. 25 mm <sup>2</sup>	max. 25 mm <sup>2</sup>	max. 35 mm <sup>2</sup>	max. 50 mm <sup>2</sup>
rated power dissipation of fuse links			2,5 W	3 W	5 W	9,5 W
dimensions of fuse links in mm			8.5 x 31.5	10.3 x 38	14.3 x 51	22.2 x 58
synthetic parts temperature resistant						
contacts silver plated						
direct installation onto DIN rails 35 mm to EN 50 022						
size 2 also available for bottom fixing with screws						

1) comments see page 28

2) comments see page 28

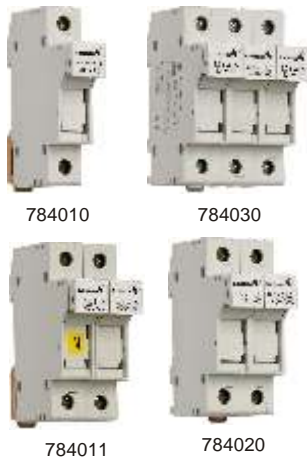
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# Cylindrical fuse-system

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## Fuse switch disconnecter for cylindrical fuse links, 400 V AC, 500 V AC, 690 V AC



Fuse switch disconnecter 400 V AC		size 00 <sup>1)</sup>	
article number	design	weight <sup>*)</sup> kg	package pieces
784010	single pole	0.06	10/100
784011	single pole + neutral conductor	0.12	5/50
784020	double pole	0.11	5/50
784030	triple pole	0.17	3/30
784031	triple pole + neutral conductor	0.23	2/20



Fuse switch disconnecter 690 V AC		size 0 <sup>1)</sup>	
article number	design	weight <sup>*)</sup> kg	package pieces
785110	single pole	0.06	10/100
785111	single pole + neutral conductor	0.12	5/50
785120	double pole	0.11	5/50
785130	triple pole	0.17	3/30
785131	triple pole + neutral conductor	0.23	2/20

1) Dimensions of fuse links:

size 00: Ø = 8,5 mm lenght= 31,5 mm

size 1: Ø = 14,3 mm lenght= 51 mm

size 0: Ø = 10,3 mm lenght= 38 mm

size 2: Ø = 22,2 mm lenght= 58 mm

\*) weight = one piece

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## Cylindrical fuse-system

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### Fuse switch disconnector for cylindrical fuse links, 400 V AC, 500 V AC, 690 V AC



786210

786211



786231

Fuse switch disconnector		690 V AC	size 1 <sup>1)</sup>	
article number	design	weight*) kg	package pieces	
786210	single pole	0.10	12	
786211	single pole + neutral conductor	0.19	6	
786220	double pole	0.19	6	
786230	triple pole	0.29	4	
786231	triple pole + neutral conductor	0.38	3	



787310

787320



787330

Fuse switch disconnector		690 V AC	size 2 <sup>1)</sup>	
article number	design	weight*) kg	package pieces	
787310	single pole	0.15	6	
787311	single pole + neutral conductor	0.30	3	
787320	double pole	0.30	3	
787330	triple pole	0.46	2	
787331	triple pole + neutral conductor	0.61	1	

1) Dimensions of fuse links:

size 00: Ø = 8,5 mm lenght = 31,5 mm

size 1: Ø = 14,3 mm lenght = 51 mm

size 0: Ø = 10,3 mm lenght= 38 mm

size 2: Ø = 22,2 mm lenght= 58 mm

\*) weight = one piece

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## Cylindrical fuse-system

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### Dimensions

Fuse switch disconnecter for cylindrical fuse links

size 00/0

M 02042

dimensional drawing on request:

[office@mschneider.at](mailto:office@mschneider.at)

drawing no. (M . . . .) see top banner right side

We are looking forward to receiving your enquiry  
and send the drawing directly per e-mail.

Fuse switch disconnecter for cylindrical fuse links

size 1

M 02043

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## Cylindrical fuse-system

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### Dimensions

Fuse switch disconnectors for cylindrical fuse links

size 2

M 02044

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in accordance with IEC/EN 60 269-1, -2, NFC 61.201, UNE 21.103

### Accessories for fuse switch disconnectors for cylindrical fuse links

400 V AC, AC 500 A, 690 V AC



783100

Neutral conductor			
article number	design	weight*) kg	package pieces
783000	size 00, Ø = 8,5 mm length = 31,5 mm	0.004	10/100
783100	size 0, Ø = 10,3 mm length = 38 mm	0.05	10/100
783200	size 1, Ø = 14,3 mm length = 51 mm	0.10	10/50
783300	size 2, Ø = 22,2 mm length = 58 mm	0.18	10/50

\*) weight = one piece

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780002	Cylindrical fuse link „gG“, size 0, 2 A	400 V AC, 10 x 38, without indicator	5100	14
780004	Cylindrical fuse link „gG“, size 0, 4 A	400 V AC, 10 x 38, without indicator	5100	14
780006	Cylindrical fuse link „gG“, size 0, 6 A	400 V AC, 10 x 38, without indicator	5100	14
780008	Cylindrical fuse link „gG“, size 0, 8 A	400 V AC, 10 x 38, without indicator	5100	14
780010	Cylindrical fuse link „gG“, size 0, 10 A	400 V AC, 10 x 38, without indicator	5100	14
780012	Cylindrical fuse link „gG“, size 0, 12 A	400 V AC, 10 x 38, without indicator	5100	14
780016	Cylindrical fuse link „gG“, size 0, 16 A	400 V AC, 10 x 38, without indicator	5100	14
780020	Cylindrical fuse link „gG“, size 0, 20 A	400 V AC, 10 x 38, without indicator	5100	14
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780125	Cylindrical fuse link „gG“, size 0, 25 A	400 V AC, 10 x 38, with indicator	5100	14
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780204	Cylindrical fuse link „aM“, size 0, 4 A	400 V AC, 10 x 38, without indicator	5100	21
780206	Cylindrical fuse link „aM“, size 0, 6 A	400 V AC, 10 x 38, without indicator	5100	21
780208	Cylindrical fuse link „aM“, size 0, 8 A	400 V AC, 10 x 38, without indicator	5100	21
780210	Cylindrical fuse link „aM“, size 0, 10 A	400 V AC, 10 x 38, without indicator	5100	21
780212	Cylindrical fuse link „aM“, size 0, 12 A	400 V AC, 10 x 38, without indicator	5100	21
780216	Cylindrical fuse link „aM“, size 0, 16 A	400 V AC, 10 x 38, without indicator	5100	21
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780320	Cylindrical fuse link „aM“, size 0, 20 A	400 V AC, 10 x 38, with indicator	5100	21
780325	Cylindrical fuse link „aM“, size 0, 25 A	400 V AC, 10 x 38, with indicator	5100	21
780332	Cylindrical fuse link „aM“, size 0, 32 A	400 V AC, 10 x 38, with indicator	5100	21
780602	Cylindrical fuse link „gG“, size 00, 2 A	400 V AC, 8,5 x 31,5, without indicator	5100	13
780604	Cylindrical fuse link „gG“, size 00, 4 A	400 V AC, 8,5 x 31,5, without indicator	5100	13
780606	Cylindrical fuse link „gG“, size 00, 6 A	400 V AC, 8,5 x 31,5, without indicator	5100	13

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780612	Cylindrical fuse link „gG“, size 00, 12 A	400 V AC, 8,5 x 31,5, without indicator	5100	13
780616	Cylindrical fuse link „gG“, size 00, 16 A	400 V AC, 8,5 x 31,5, without indicator	5100	13
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781250	Cylindrical fuse link „aM“, size 1, 50 A	400 V AC, 14 x 51, without indicator	5100	22
781302	Cylindrical fuse link „aM“, size 1, 2 A	400 V AC, 14 x 51, with indicator	5100	22
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782208	Cylindrical fuse link „aM“, size 2, 8 A	400 V AC, 22 x 58, without indicator	5100	23
782210	Cylindrical fuse link „aM“, size 2, 10 A	400 V AC, 22 x 58, without indicator	5100	23
782212	Cylindrical fuse link „aM“, size 2, 12 A	400 V AC, 22 x 58, without indicator	5100	23
782216	Cylindrical fuse link „aM“, size 2, 16 A	400 V AC, 22 x 58, without indicator	5100	23
782220	Cylindrical fuse link „aM“, size 2, 20 A	400 V AC, 22 x 58, without indicator	5100	23
782225	Cylindrical fuse link „aM“, size 2, 25 A	400 V AC, 22 x 58, without indicator	5100	23

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article number	short description		price group	page
782232	Cylindrical fuse link „aM“, size 2, 32 A	400 V AC, 22 x 58, without indicator	5100	23
782240	Cylindrical fuse link „aM“, size 2, 40 A	400 V AC, 22 x 58, without indicator	5100	23
782250	Cylindrical fuse link „aM“, size 2, 50 A	400 V AC, 22 x 58, without indicator	5100	23
782263	Cylindrical fuse link „aM“, size 2, 63 A	400 V AC, 22 x 58, without indicator	5100	23
782280	Cylindrical fuse link „aM“, size 2, 80 A	400 V AC, 22 x 58, without indicator	5100	23
782290	Cylindrical fuse link „aM“, size 2, 100 A	400 V AC, 22 x 58, without indicator	5100	23
782292	Cylindrical fuse link „aM“, size 2, 125 A	400 V AC, 22 x 58, without indicator	5100	23
782306	Cylindrical fuse link „aM“, size 2, 6 A	400 V AC, 22 x 58, with indicator	5100	23
782308	Cylindrical fuse link „aM“, size 2, 8 A	400 V AC, 22 x 58, with indicator	5100	23
782310	Cylindrical fuse link „aM“, size 2, 10 A	400 V AC, 22 x 58, with indicator	5100	23
782312	Cylindrical fuse link „aM“, size 2, 12 A	400 V AC, 22 x 58, with indicator	5100	23
782316	Cylindrical fuse link „aM“, size 2, 16 A	400 V AC, 22 x 58, with indicator	5100	23
782320	Cylindrical fuse link „aM“, size 2, 20 A	400 V AC, 22 x 58, with indicator	5100	23
782325	Cylindrical fuse link „aM“, size 2, 25 A	400 V AC, 22 x 58, with indicator	5100	23
782332	Cylindrical fuse link „aM“, size 2, 32 A	400 V AC, 22 x 58, with indicator	5100	23
782340	Cylindrical fuse link „aM“, size 2, 40 A	400 V AC, 22 x 58, with indicator	5100	23
782350	Cylindrical fuse link „aM“, size 2, 50 A	400 V AC, 22 x 58, with indicator	5100	23
782363	Cylindrical fuse link „aM“, size 2, 63 A	400 V AC, 22 x 58, with indicator	5100	23
782380	Cylindrical fuse link „aM“, size 2, 80 A	400 V AC, 22 x 58, with indicator	5100	23
782390	Cylindrical fuse link „aM“, size 2, 100 A	400 V AC, 22 x 58, with indicator	5100	23
782392	Cylindrical fuse link „aM“, size 2, 125 A	400 V AC, 22 x 58, with indicator	5100	23
783000	Neutral conductor, size 00 , 8,5 x 31,5	for cylindrical fuse disconnectors	5100	33
783100	Neutral conductor, size 0 , 10 x 38	for cylindrical fuse disconnectors	5100	33
783200	Neutral conductor, size 1, 14 x 51	for cylindrical fuse disconnectors	5100	33
783300	Neutral conductor, size 2, 22 x 58	for cylindrical fuse disconnectors	5100	33
784010	Fuse disconnector single pole switching	for cylindrical fuse links, size 00 , 8 x 31	5100	30
784011	Fuse disconnector single pole switching + NL	for cylindrical fuse links, size 00 , 8 x 31	5100	30
784020	Fuse disconnector double pole switching	for cylindrical fuse links, size 00 , 8 x 31	5100	30
784030	Fuse disconnector triple pole switching	for cylindrical fuse links, size 00 , 8 x 31	5100	30
784031	Fuse disconnector triple pole switching + NL	for cylindrical fuse links, size 00 , 8 x 31	5100	30
785110	Fuse disconnector single pole switching	for cylindrical fuse links, size 0 , 10 x 38	5100	30
785111	Fuse disconnector single pole switching + NL	for cylindrical fuse links, size 0 , 10 x 38	5100	30
785120	Fuse disconnector double pole switching	for cylindrical fuse links, size 0 , 10 x 38	5100	30
785130	Fuse disconnector triple pole switching	for cylindrical fuse links, size 0 , 10 x 38	5100	30
785131	Fuse disconnector triple pole switching + NL	for cylindrical fuse links, size 0 , 10 x 38	5100	30
786210	Fuse disconnector single pole switching	for cylindrical fuse links, size 1, 14 x 51	5100	31
786211	Fuse disconnector single pole switching + NL	for cylindrical fuse links, size 1, 14 x 51	5100	31
786220	Fuse disconnector double pole switching	for cylindrical fuse links, size 1, 14 x 51	5100	31
786230	Fuse disconnector triple pole switching	for cylindrical fuse links, size 1, 14 x 51	5100	31
786231	Fuse disconnector triple pole switching+ NL	for cylindrical fuse links, size 1, 14 x 51	5100	31
787310	Fuse disconnector single pole switching	for cylindrical fuse links, size 2, 22 x 58	5100	31
787311	Fuse disconnector single pole switching + NL	for cylindrical fuse links, size 2, 22 x 58	5100	31
787320	Fuse disconnector double pole switching	for cylindrical fuse links, size 2, 22 x 58	5100	31
787330	Fuse disconnector triple pole switching	for cylindrical fuse links, size 2, 22 x 58	5100	31
787331	Fuse disconnector triple pole switching + NL	for cylindrical fuse links, size 2, 22 x 58	5100	31

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**Standard conditions to DIN/EN 60 269-1 are as follows and apply to Cylindrical Fuse-System.  
For applications under differing conditions the producer must be notified.**

- a) Ambient air temperature: must not exceed +40 °C and its average over a period of 24 hours must not exceed +35° C. The lower limit of ambient air temperature is –5° C. Ambient air temperature is that existing in the vicinity of the fuse (in a distance of approx. 1m of the fuse or if supplied of the enclosure)  
(Please note: Time current characteristics of fuse links rely to an ambient air temperature of 20° C. In case of differing temperature condition notify [m.schneider](#). Follow the specification of the manufacturer of fuse bases and switch gear.)
- b) Altitude: up to 2.000 m. For equipment to be used at higher altitudes contact [m.schneider](#) prior to use.
- c) Atmospheric conditions: The ambient air must be clean and the relative humidity of the air must not exceed 50% at a maximum temperature of +40° C.  
Higher relative humidity may be permitted at lower temperatures, (e.g. 90% at +20° C). Occasional moderate condensation due to variations in temperature might occur. In case of doubt, especially in cases of outdoor application without protection or in possible contact with sea water or industrial deposits, contact [m.schneider](#).
- d) Pollution degree: The switch gear is rated according pollution degree 3 (conductive pollution occurs or dry or non conductive pollution occurs, which becomes conductive due to condensation). Avoid damaging influences of chemical substances during storage, assembly and operation.
- e) Transport and Storage: Values according a) and b) are valid with the exception, that for transport and storage, but not service, the ambient temperatures can be between –25° C to +55° C.
- f) Certification and Test Reports: All equipment and components of the cylindric fuse-system are tested and approved by third party testing according to the above-mentioned standards and with the technical data mentioned.  
All tests are in accordance with the EC regulation 2006/95/EG for approximation of laws dt. December 12th, 2006 referring to the application of electrical equipment within specified voltage limitations.
- g) Mounting and Service: Equipment has to be mounted and installed according the mounting, installation and service manuals of [m.schneider](#). The rated power dissipation of the fuse link may not exceed the max. rated power consumption of the fuse base or switch gear. Prior to operation in case of possible exceptional vibrations or impulses contact [m.schneider](#).
- h) Routine tests:  
Before operation the above mentioned conditions and requirements for routine tests of switch gear combination to par.8.1.2 and 8.3 of EN 60 439 are to be considered. For components that can be snapped onto bus bars automatically their exact installation must be ensured.



The companies of the **m.schneider** group have designed, produced and installed electro technical products of high quality since 1926 in Annaberg - Germany, since 1946 in Vienna - Austria and since 1996 in Sezemice - Czech Republic. About 300 employees are active in Austria, Germany, the Czech Republic, Hungary, Poland, China and Nigeria. The companies activities comprise:

- ◆ Production of fuses and switch gear
- ◆ Installation of electrical and digital data networks
- ◆ Technical facility management
- ◆ Telecommunication service
- ◆ Nationally certified cable test department

**m.schneider** is a leading international complete supplier in the field of fuse- and bus bar systems. The product programme comprises MULTIFIX® bus bar systems, the NH-fuse system, D0/D- and cylindrical fuse systems, miniature fuse links and accessories as well as high voltage fuse links.

In the field of NH-(low voltage high rupturing) DIN-fuse material m.schneider is a long term specialist. The product portfolio comprises the complete NH-fuse system, EUROFUSE® fuse links, horizontal and vertical fuse bases, MULTIBLOC® fuse switch disconnectors and MULTIVERT® vertical fuse switch disconnectors in many varieties as well as a wide range of accessories. The function of our products is the protection of persons, systems and installations against the impact of overloads and short-circuits.

The products meet the highest quality requirements, extending the demands of national and international standards, certified by many company held patents for products and their assembling procedures together with independent test certification such as ÖVE, VDE and CCC. All products are tested in accordance with EN, IEC.

The manufactured products are distributed in more than 50 countries. m. schneider was certified to ISO 9001 in 1993 as 86th Austrian company. The company's products are acclaimed for their reliability and are used at home and abroad by public utilities, panel board builders and the industry.

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- ◆ Continuous product development and programmes
- ◆ Competent problem solving
- ◆ Latest technical standards
- ◆ Efficient customer service
- ◆ System supplier

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