

FEATURES

- Miniature ceramic cartridge
- FF Speed rated – very fast acting
- 5mm x 20mm cartridge size
- Very high interrupting rating
- High rated voltages
Cylindrical shape

RS PRO, 10A Ceramic Cartridge Fuse, 5 x 20mm, Speed FF

RS Stock No.: 420-145



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO range of miniature ceramic cartridge fuses which are ultra-rapid (FF) that operate at higher temperatures so are ideal to provide circuit protection to semiconductor devices. They are ideal for providing protection to devices or internal circuits from short circuits and overcurrent. They are deliberately weaker components which, when too much current is drawn, will blow. Once the fuse has blown it will need replacing in order to make the circuit complete and allow the flow of current.

General Specifications

Fuse Speed	FF
Body Material	Ceramic
Size Designation	Miniature
UL Class	UL 248-13
Applications	Industrial, Commercial, Home/Residential, Automotive

Electrical Specifications

Current Rating	10A
Voltage Rating	250V ac
Breaking Capacity (at Maximum Voltage Rating)	300kV bei/at, , 250V ac , $\cos\phi < 0.2$
Voltage Drop	180mV
Power Dissipation	3.2W
I²t Value	8.8A ² s

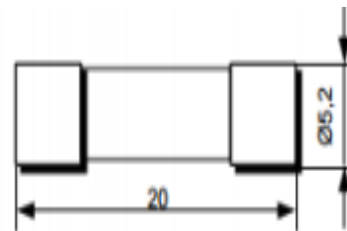
Mechanical Specifications

Fuse Size	5mm x 20mm
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Overall Length	20mm
Diameter	5mm

Approvals

Compliance/Certifications	UL, RoHS
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Bemessungsstrom Rated current mA / A	Spannungsfall Voltage drop mV	Verlustleistung Power loss bei/at 1 x I _{rat} [W]	Schaltvermögen Breaking capacity kA	I ² t _s -Wert I ² t _s -value A ² s	I ² t _a -Wert I ² t _a -value bei/at U _{rat} [A ² s]
125 mA	3500	0,5	 300 kA bei/at 250 V AC cos φ < 0,2	0,0024	0,0034
160 mA	1300	0,3		0,004	0,0056
200 mA	600	0,2		0,01	0,011
250 mA	550	0,2		0,02	0,027
315 mA	500	0,2		0,04	0,042
400 mA	500	0,2		0,07	0,084
500 mA	550	0,3		0,07	0,091
630 mA	600	0,4		0,15	0,24
800 mA	600	0,5		0,32	0,42
1 A	600	0,6		0,32	0,45
1,25 A	400	0,5		0,20	0,28
1,6 A	400	0,7		0,31	0,51
2 A	400	0,8		0,64	1,0
2,5 A	400	1,0		0,88	1,5
3,15 A	400	1,3		1,6	2,7
4 A	350	1,4		3,2	5,4
5 A	350	1,8		5,9	10
6,3 A	250	2,8	1,6	4,8	
8 A	230	3,0	4,5	14	
10 A	180	3,2	8,8	26	
12,5 A	150	4,0	15	44	

Grenzwerte der Schmelzzeit:

Pre-arcing time limits:

Range	1 x I _{rat}	2 x I _{rat}	2,75 x I _{rat}	4 x I _{rat}	10 x I _{rat}
125 - 800 mA	min. 1 h	-	-	max. 60 ms	max. 6 ms
1 - 5 A		max. 1 s	4 - 100 ms	1 - 25 ms	max. 3 ms
Range	1,2 x I _{rat}	1,5 x I _{rat}	2,75 x I _{rat}	4 x I _{rat}	10 x I _{rat}
6,3 - 12,5 A	min. 1 h	max. 30 min	4 - 300 ms	1 - 30 ms	max. 1 ms