
Klemi Contact
The connectables

# FUSES
# FUSIBILI

www.klemi-contact.com

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## FUSE

The fuse is a device capable of protecting an electrical or electronic circuit from overloads or short circuits.

The fuse consists of a cartridge made of insulating material such as glass, ceramic or porcelain, in which a very thin metal wire passes where the nominal current circulates. When the current transmitted exceeds a certain threshold, the wire that comes into play, causing the circuit to open, interrupting the flow of current.

In fuses with glass cartridge, if you see the metal wire in order to check its status, in ceramic models instead, the wire is not visible so there is a small mobile element that indicates its integrity.
In models designed to support larger electrical currents, the wire is surrounded by inert material (usually quartz sand) which allows the electric arc to be extinguished faster

## FUSIBILI

Il fusibile è un dispositivo elettromeccanico utilizzato per la protezione dei circuiti elettrici o elettronici dalle sovracorrenti e cortocircuiti.

Sul mercato esistono vari tipi e misure di fusibili; Klemi Contact ha selezionato e presenta nel seguente catalogo i fusibili cilindrici (chiamati anche a cartuccia), fusibili miniaturizzati, SMD, termofusibili, polytron e fusibili per il settore fotovoltaico.

Nei fusibili cilindrici in vetro, è visibile il filo metallico che consente di verificarne lo stato, nei modelli in ceramica invece, il filo non è visibile per cui esiste un piccolo elemento mobile che ne segnala l'integrità.
Nei modelli progettati per supportare correnti elettriche di valore elevato, il filo viene circondato da materiale inerte (solitamente sabbia di quarzo) che consente lo spegnimento dell'arco elettrico più velocemente

There is a Thomas Edison patent in 1890, but the fuses were born many years before. One of the first references to the fuse came to light in 1774 by Edward Nairne, but also in 1879 S.P. Thompson produced what he described as an improved form of fuse. It consisted of two wires connected to each other by a metal sphere with a low melting point. When a sufficiently high current passed through the "fuse" for a long enough period, the sphere dissolved causing the two metal wires to separate.

Esiste un brevetto di Thomas Edison nel 1890, ma i fusibili nascono molti anni prima. Uno dei primi riferimenti al fusibile è venuto alla luce nel 1774 da Edward Nairne, ma anche nel 1879 S.P. Thompson produsse quella che descrisse come una forma migliorata di fusibile. Consisteva in due fili di ferro collegati tra loro da una sfera metallica con basso punto di fusione. Quando una corrente sufficientemente elevata, attraversava il "fusibile" per un periodo abbastanza lungo, la sfera si scioglieva facendo separare i due fili metallici.

## ADVANTAGES
## VANTAGGI

| | | |
|---|---|---|
| **HIGH POWER OF INTERRUPTION**<br>ELEVATO POTERE DI INTERRUZIONE | Excellent breaking and limiting characteristics | Ottime caratteristiche di interruzione e limitazione |
| **HIGHT RELIABILITY**<br>ALTA AFFIDABILITÀ | Completely static without any moving organ, it does not require maintenance, its replacement restores the original conditions | Completamente statico senza alcun organo in movimento, non necessita di manutenzione, la sua sostituzione ristabilisce le condizioni originarie |
| **SAFETY**<br>SICUREZZA | Safe and silent intervention without gas emission, flames, arcs, sparks | Intervento sicuro e silenzioso senza emissione di gas, fiamme, archi, scintille |
| **ECONOMIC**<br>ECONOMICO | High levels of protection at low cost | Elevati livelli di protezione a basso costo |

## APPLICATIONS
## APPLICAZIONI

**LIGHTING / ILLUMINAZIONE** · **POWER SUPPLIERS / ALIMENTATORI** · **INVERTERS / INVERTER**
**WIRING HARNESESS / CABLAGGI** · **APPLIANCES / ELETTRODOMESTICI** · **ENGINES / MOTORI**
**MEDICAL EQUIPMENTS / ELETTROMEDICALI** · **PHOTOVOLTAICS / FOTOVOLTAICO** · **TELECOM**
**ELECTRONIC / SCHEDE ELETTRICHE** · **SEMICONDUCTOR / SEMICONDUTTORI**



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TT

**VERY SLOW ACTING FUSE**
**SUPERITARDATI**

they intervene to protect equipment subject to continuous power surges
*intervengono per la protezione di apparecchiature soggette a continui sbalzi di corrente*

T

**SLOW ACTING FUSE**
**RITARDATI**

they intervene in the event of prolonged overloads and short circuits
*intervengono in caso di sovraccarichi prolungati e cortocircuiti*

M

**MEDIUM ACTING FUSE**
**MEDI**

a cross between fast and delayed fuses
*una via di mezzo tra i fusibili rapidi e quelli ritardati*

F

**FAST**
**RAPIDI**

they have an almost immediate action, at the moment in which the overload occurs
*hanno un'azione praticamente immediata, nel momento in cui avviene il sovraccarico*

FF

**ULTRA QUICK**
**EXTRA RAPIDI**

They are dedicated to particular, particularly delicate appliances. It is the case of those circuits in which a current peak can compromise one or more parts causing serious damage
*Sono dedicati ad apparecchi particolarmente delicati. E' il caso di quei circuiti in cui un picco di corrente può compromettere una o più parti arrecando danni anche seri*

ENG

**The technical characteristics of the fuse to be taken into consideration for a correct choice are:**

**VOLTAGE RATING**
The voltage ratings of the fuse must be greater than or equal to the circuit voltage. Because the fuse has such low resistance the voltage rating becomes critical only when the fuse is trying to open. The fuse must be able to open quickly, extinguish the arc after the fuse element has melted and prevent the system open- circuit voltage form re-striking across the open fuse element

**PRE ARCING TIME**
Time required for a current to bring the fuse element to the fusion, and subsequently to the vapor state. The prearc time is independent of the mains voltage.

**ARCING TIME**
Period between the instant in which the arc appears and its total extinction (current zero). The arcing time depends on the current of the network, but for the total melting times > 40 ms it is negligible with respect to the prearc time.

**TOTAL MELTING TIME**
Sum of prearcing and arcing times

**OPENING POWER**
Value of the prospective short-circuit current which the fuse is capable of interrupting at a specific use voltage.

**THERMAL STRESS**
Integral value of the breaking current in the unit of total melting time expressed in $A^2s$

IT

**Le caratteristiche tecniche del fusibile da tenere in considerazione per una corretta scelta sono:**

**TENSIONE NOMINALE**
La tensione nominale del fusibile deve essere superiore o almeno identica alla tensione del circuito. Poiché il fusibile ha una resistenza bassa, la tensione nominale diventa critica solo quando il fusibile sta cercando di interrompere la corrente nel circuito. Il fusibile deve essere in grado di aprire il flusso di corrente rapidamente e mantenere il circuito aperto

**TEMPO DI PREARCO**
Tempo necessario ad una corrente per portare alla fusione, e successivamente allo stato di vapore, l'elemento fusibile. Il tempo di prearco è indipendente dalla tensione di rete

**TEMPO D'ARCO**
Periodo compreso tra l'istante in cui appare l'arco e la sua estinzione totale (corrente nulla). Il tempo di arco dipende dalla corrente della rete, ma per i tempi di fusione totale > 40 ms è trascurabile rispetto al tempo di prearco.

**TEMPO DI FUSIONE TOTALE**
Somma dei tempi di prearco e d'arco

**POTERE DI APERTURA**
Valore della corrente di cortocircuito presunta che il fusibile è in grado di interrompere ad una tensione di impiego specifica

**SOLLECITAZIONE TERMICA**
Valore dell'integrale della corrente di interruzione nell'unità di tempo di fusione totale espressa in $A^2s$

**THE TENSION**
A fuse can never be used at an effective voltage greater than its rated voltage. At lower voltages it works without problems.

**LA TENSIONE**
Un fusibile non può mai essere utilizzato ad una tensione superiore alla sua tensione nominale. A tensioni inferiori funziona senza problemi.

!

In relation to the equipment or device that they are called to protect the fuses they can be further divided into categories.
In relazione all'apparecchiatura o al dispositivo che sono chiamati a proteggere i fusibili possono essere ulteriormente suddivisi in categorie.

| | | | |
|---|---|---|---|
| gG | General uses, in particular for the protection of conductors<br>Usi generali, in particolare per la protezione dei conduttori | F | full field<br>campo pieno |
| gM | Motor protection<br>Protezione motori | T | full field<br>campo pieno |
| aM | Motor protection - CEI 32-4<br>Protezione motori - CEI 32-4 | T | partial field<br>campo parziale |
| aR | Semiconductor protection<br>Protezione semiconduttori | FF | partial field<br>campo parziale |
| gR gS | Semiconductor protection<br>Protezione semiconduttori | FF | full field<br>campo pieno |
| gPV | Protection of photovoltaic modules and related connection cables<br>Protezione moduli fotovoltaici e relativi cavi di collegamento | | full field<br>campo pieno |

| GROUP | INT. | CODE | I. RATING I. NOM. | V. RATING TENS. NOM. | BREAKING CAPACITY CAPACITÀ DI ROTTURA | APPROVAL OMOLOGAZIONE | MATERIAL MATERIALE | PAG. |
|---|---|---|---|---|---|---|---|---|
| 5 x 15 | T | 515.300 | 250 mA ~ 6,3 A | 125 V - 250 V | 35 A ~ 63 A | | Glass Vetro | 7 |
| | T | 515.700 | 800 mA ~ 3,15 A | 250 V | 1500 A | | Glass Vetro | 8 |
| | F | 515.600 | 100 mA ~ 7 A | 125 V - 250 V | 35 A / 100 A 400 A | | Glass Vetro | 7 |
| 5 x 20 | TT | 522.400 | 100 mA ~ 10 A | 250 V | 35 A | | Glass Vetro | 14 |
| | T | 522.000 | 1,6 A ~ 16 A | 250 V | 300 A | | Glass + EA Vetro + PSA | 13 |
| | T | UL 522.200 | 80 mA ~ 10 A | 125 V - 250 V | 35 A / 100 A 200 A / 10.000 A | cULus | Glass Vetro | 13 |
| | T | 522.300 | 32 mA ~ 10 A | 250 V | 150 A | | Glass Vetro | 14 |
| | T | 522.500 | 32 mA ~ 12,5 A | 250 V | 35 A ~ 125 A | cULus VDE | Glass Vetro | 15 |
| | T | 522.600 | 100 mA ~ 10 A | 250 V | 200 A | | Cer + EA Cer + PSA | 15 |
| | T | 522.700 | 100 mA ~ 12,5 A | 250 V | 1500 A | cULus VDE | Cer / Cer + EA Cer / Cer + PSA | 16 |
| | M | 521.000 | 32 mA ~ 20 A | 250 V | 80 A ~ 300 A 1000 A | | Glass / Glass + EA Vetro / Vetro + PSA | 11 |
| | M | UL 521.000 | 100 mA ~ 7 A | 250 V | 35 A / 100 A 10.000 A | cULus | Glass Vetro | 12 |
| | M | 521.500 | 630 mA ~ 16 A | 250 V | 1500 A | | Cer + EA Cer + PSA | 12 |
| | F | 520.000 | 500 mA ~ 16 A | 250 V | 20 A ~ 1000 A | | Glass + EA Vetro + PSA | 8 |
| | F | 520.500 | 50 mA ~ 16A | 250 V | 1500 A | cULus S | Ceramic Ceramica | 10 |
| | F | 520.600 | 32 A ~ 10 A | 250 V | 35 A / 100 A | cULus S | Glass Vetro | 10 |
| | F | UL 520.600 | 80 mA ~ 10 A | 125 V / 250 V | 35 A / 100 A 200 A / 10.000 A | cULus | Glass Vetro | 11 |
| | FF | 520.100 | 100 mA ~ 16 A | 250 V | 35 A / 1500 A | | Glass / Cer + EA Vetro / Cer + PSA | 9 |
| | FF | 520.100-420V | 8 A ~ 16 A | 420 V | 200 A ac 300 A dc | | Cer + EA Cer + PSA | 9 |
| 5 x 20/5 x 25 5 x 30 | M | 528.100 | 32 mA ~ 10 A | 250 V | 80 A / 1500 A | | Cer + EA Cer + PSA | 16 |
| 5 x 25 | T | 525.300 | 32 mA ~ 16 A | 250 V | 80 A | | Glass / Glass + EA Vetro / Vetro + PSA | 17 |
| | M | 525.200 | 40 mA ~ 16 A | 250 V | 80 A / 100 A 125 A /160 A | | Glass / Glass + EA Vetro / Vetro + PSA | 17 |
| | M | 528.000 | 80 mA ~ 10 A | 250 V | 80 A / 1500 A | | Glass / Cer / Cer + EA Vetro / Cer / Cer + PSA | 19 |
| | M | 11.528.000 | 4 A / 6,3 A | 450 V | 1500 A | | Cer. + EA Cer. + PSA | 19 |
| | F | 525.600 | 32 mA ~ 16 A | 250 V | 80 A / 100 A 125 A / 160 A | | Glass / Glass + EA Vetro / Vetro + PSA | 18 |
| | F | 527.000 | 1,6 A ~ 10 A | 250 V | 300 A | | Cer. + EA Cer. + PSA | 18 |
| 5 x 30 | T | 530.300 | 32 mA ~ 16 A | 500 V | 80 A / 100 A 125 A / 160 A | | Glass / Glass + EA Vetro / Vetro + PSA | 20 |
| | M | 530.200 | 32 mA ~ 16 A | 500 V | 80 A / 100 A 125 A / 160 A | | Glass / Glass + EA Vetro / Vetro + PSA | 20 |
| | F | 530.600 | 32 mA ~ 16 A | 500 V | 80 A / 100 A 125 A / 160 A | | Glass / Glass + EA Vetro / Vetro + PSA | 21 |
| 6,3 x 32 | T | 632.300 | 32 mA ~ 30 A | 250 V | 35 A / 1000 A | | Glass / Glass +EA Vetro / Vetro + PSA | 23 |
| | T | UL 632.300 | 63 mA ~ 15 A | 125 V / 250 V | 35 A / 100 A 200 A 10.000 A | cULus | Glass Vetro | 24 |
| | T | 632.700 | 100 mA ~ 25 A | 250 V / 500 V | 35 A ~ 1.000 A | | Cer / Cer + EA Cer / Cer + PSA | 27 |
| | T | UL 632.700 | 63 mA ~ 15 A | 125 V / 250 V | 35 A / 100 A 200 A 10.000 A | cULus cULus SP | Cer + EA Cer + PSA | 28 |
| | T | 632.900 | 50 mA ~ 2 A | 500 V | 35 A / 1.000 A | | Glass Vetro | 28 |
| | T | 1.632.700 | 32 mA ~ 32 A | 250 V ~ 500 V | 1500 A | | Cer + EA Cer + PSA | 29 |
| | M | 632.200 | 32 mA ~ 25 A | 250 V | 35 A / 1000 A | | Glass / Glass + EA Vetro / Vetro + PSA | 23 |
| | F | TDC180 | 1 A ~ 13 A | 32 V | 6.000 A | | Ceramic Ceramica | 30 |
| | F | 140.000 | 5 A ~ 40 A | 32 V | - | | Glass Vetro | 21 |
| | F | 632.000 | 80 mA ~ 25 A | 250 V | 1000 A | | Glass / Glass + EA Vetro / Vetro + PSA | 22 |
| | F | 632.500 | 100 mA ~ 25 A | 500 V | 1000 A | | Cer / Cer + EA Cer / Cer + PSA | 25 |
| | F | UL 632.500 | 100 mA ~ 20 A | 125 V /250 V | 35 A ~ 10.000 A | cULus SP | Cer + EA Cer + PSA | 25 |
| | F | 632.500-X | 10 A ~ 30 A | 500 V | 20.000 A / 30.000 A | cULus cULus SP | Cer + EA Cer + PSA | 26 |
| | F | 632.600 | 50 mA ~ 16 A | 60 V / 150 V 250 V | 35 A ~ 10 A | | Glass Vetro | 26 |
| | F | UL 632.600 | 100 mA ~ 15 A | 125 V / 250 V | 35 A / 100 A 200 A / 10.000 A | cULus | Glass + EA Vetro + PSA | 27 |
| | F | 1632.500 | 160 mA ~ 25 A | 440 V / 500 V | 1500 A ~ 50000 A | | Cer + EA Cer + PSA | 29 |
| | FF | 632.100 | 100 mA ~ 25 A | 250 V / 500 V | 35 A / 1500 A | | Glass / Cer + EA Vetro / Cer + PSA | 22 |

## CYLINDRICAL FUSES
## FUSIBILI CILINDRICI

| GROUP | INT. | CODE | I. RATING I. NOM. | V. RATING TENS. NOM. | BREAKING CAPACITY CAPACITÀ DI ROTTURA | APPROVAL OMOLOGAZIONE | MATERIAL MATERIALE | PAG. |
|---|---|---|---|---|---|---|---|---|
| 6,3 x 32 | FF | 632.400 | 100 mA ~ 2 A | 1000 V | 30 kA | | Cer + EA<br>Cer + PSA | 24 |
| 8 x 40 | M /F | 556.600 | 32 mA ~ 10 A | 500 V | 80 A /1500 A | | Glass / Glass + EA<br>Vetro / Vetro + PSA | 30 |
| 8 x 50 | - | 557.000 | 32 mA ~ 6,3 A | 1,2 kV | 35 A | | Glass / Glass + EA<br>Vetro / Vetro + PSA | 31 |
| 8 x 85 | - | 558.000 | 32 mA ~ 4 A | 3 kV | 35 A | | Glass / Glass + EA<br>Vetro / Vetro + PSA | 31 |
| 8 x 120 | - | 559.000 | 32 mA ~ 8 A | 6 kV | 35 A | | Glass / Glass + EA<br>Vetro / Vetro + PSA | 32 |
| 8 x 150 | - | 560.000 | 32 mA ~ 2 A | 10 kV | 35 A | | Glass / Glass + EA<br>Vetro / Vetro + PSA | 32 |
| 10,3 x 38 | T/aM | 1.038.300 | 160 mA ~ 32 A | 400 V / 500 V | 120 kA | | Cer + EA<br>Cer + PSA | 33 |
| | T | FNQ-R | 250 mA ~ 30 A | 600 V | 200 kA | | Melamine<br>Melammina | 35 |
| | F | 1.038.400 | 200 mA ~ 30 A | 600 V | 100 kA | | Melamine<br>Melammina | 34 |
| | F/gG | 1.038.600 | 500 mA ~ 32 A | 400 / 500 V | 120 kA | | Cer + EA<br>Cer + PSA | 34 |
| | FF/gR | 1.038.100 | 1 A ~ 32 A | 690 V | 160 kA | | Cer + EA<br>Cer + PSA | 33 |
| | FF/gR | 1.038.800 | 500 mA ~ 25 A | 1000 V | 30 kA | | Cer + EA<br>Cer + PSA | 35 |

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## PHOTOVOLTAIC FUSES
## FUSIBILI FOTOVOLTAICI

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 10,3 x 38 | gPV | 1.038.700 | 1 A - 25 A | 1000 V | 30 kA | | Ceramic<br>Ceramica | 36 |
| | gPV | UL 1.038.700 | 1 A - 25 A | 1000 V | 30 kA | | Cer + EA<br>Cer + PSA | 37 |
| | FF/gR | 1.038.500 | 2 A - 25 A | 700 V | 30 kA | | Ceramic<br>Ceramica | 36 |
| | FF/gR | 1.038.900 | 2 A - 25 A | 900 V | 30 kA | | Cer + EA<br>Cer + PSA | 37 |
| 10,3 x 85 | gPV | 1.085.500 | 2A - 25 A | 1500 V | 30 kA | | Ceramic<br>Ceramica | 38 |
| | gPV | UL 1.085.500 | 2 A - 25 A | 1500 V | 30 kA | | Ceramic<br>Ceramica | 39 |
| | gR | 1.085.100 | 2 A - 25 A | 1200 V | 30 kA | | Ceramic<br>Ceramica | 38 |

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## PBT FUSES
## FUSIBILI in PBT

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 15 x 50 | B | F-7170 | 5 A ~ 30 A | 250 V | - | | PBT | 39 |

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## KNIFE BLADE TYPE NH INDUSTRIAL FUSES
## FUSIBILI INDUSTRIALI NH A COLTELLO

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NV / NH 00 | gS | NH00C.0690.000 | 16 A ~ 125 A | 690 V | 100 kA | | Ceramic<br>Ceramica | |
| NH 0 | gPV | NH0.750.000 | 32 A ~ 160 A | 750 V | 20 kA | | | |
| | gPV | NH01.000.00 | 32 A ~ 160 A | 1000 V | 20 kA | | | |
| NH 1C | gPV | NH1.750.000 | 32 A ~ 160 A | 750 V | 20 kA | | | |
| | gPV | NH11.000.00 | 63 A ~ 160 A | 1100 V | 10 kA | | | |
| NH 1XL | gPV | NH111.001.000 | 100 mA ~ 20 A | 1100 V | 10 kA | | | |
| | gPV | NH111.002.000 | 63 A ~ 160 A | 1100 V | 10 kA | | | |
| | gPV | NH111.003.000 | 63 A ~ 160 A | 1100 V | 10 kA | | | |
| NH 2 XL | gPV | NH211.001.000 | 200 A / 250 A | 1100 V | 10 kA | | | |
| | gPV | NH21.002.000 | 200 A / 250 A | 1100 V | 10 kA | | | |
| | gPV | NH211.003.000 | 200 A / 250 A | 1100 V | 10 kA | | | |
| NH 3 L | gPV | NH311.001.00 | 315 A / 400 A | 1100 V | 10 kA | | | |
| | gPV | NH311.002.000 | 200 A - 400 A | 1100 V | 10 kA | | | |
| | gPV | NH311.003.000 | 200 A - 400 A | 1100 V | 10 kA | | | |
| NH 1C | gG | NH1C.500.000 | 25 A/ 160 A | 500 V | 120 kA | | | |
| NH 2 | aR | NH2S.4000.000 | 100 A / 250 A | 4000 V | 30 kA | | | |

## SUBMINIATURE FUSES
## FUSIBILI MINIATURIZZATI

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| GROUP | INT. | CODE | I. RATING I. NOM. | V. RATING TENS. NOM. | BREAKING CAPACITY CAPACITÀ DI ROTTURA | APPROVAL OMOLOGAZIONE | MATERIAL MATERIALE | PAG. |
|---|---|---|---|---|---|---|---|---|
| 8,35 x 7,7 | T | 887.000 | 80 mA ~ 6,3 A | 250 V | 35 A ~ 63 A | | Thermoplastic Termoplastico | |
| | F | 885.000 | 50 mA ~ 6,3 A | 250 V | 35 A ~ 63 A | | Thermoplastic Termoplastico | |
| 8,4 | T | 883.000 | 80 mA ~ 6,3 A | 250 V | 35 A ~ 63 A | | Thermoplastic Termoplastico | |
| UMF | F | 900.000 | 160 mA ~ 6,3 A | 250 V | 35 A ~ 63 A | | Thermoplastic Termoplastico | |
| PICO | T | ES-MS | 250 mA ~ 7 A | 125 V | ac 50 A / dc 300 A | | Thermoplastic Termoplastico | |
| | T | 888.200 | 1 A ~ 6,3 A | 250 V | 35 A | | - | |
| | F | 823.600 | 63 mA ~ 15 A | 125 V | 50 A / 300 A | | Epoxy-coated Rivestimento epossidico | |
| | F | ES-MQ | 100 mA ~ 15 A | 125 V | ac 50 A / dc 300 A | | Thermoplastic Termoplastico | |
| | F | 888.300 | 1 A ~ 6,3 A | 250 V | 35 A | | - | |

## SMD FUSES
## FUSIBILI SMD

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 2410 | T | 222.000 | 375 mA ~ 7 A | 125 V | 50 A | | Ceramic Ceramica | |
| | F | 220.000 | 250 mA ~ 15 A | 86 V / 125 V | 50 A / 300 A 10.000 A | | | |
| | F | 220.000L | 250 mA ~ 20 A | 125 V | 50 A / 300 A 10.000 A | | | |
| | F | 220.000-X | 1 A ~ 5 A | 125 V / 250 V | 50 A | | | |
| | F | 220.000-XF | 1 A ~ 20 A | 65 V / 125 V 160 V | 50 A | | | |
| | F | 222.000-X | 1 A ~ 5 A | 125 V / 250 V | 50 A | | | |
| | F | 222.000-XH | 1 A ~ 6,3 A | 125 V /160 V | 50 A | | | |
| 4012 | T | 223.000-XT | 500 mA ~ 5 A | 250 V | 50 A | | | |
| | F | 222.000-XF | 20 A ~ 60 A | 65 V / 72 V 125 V / 250 V | 10 A ~ 1000 A | | | |
| 4818 | T | 225.000 | 250 mA ~ 6,3 A | 250 V | 150 A | | | |

## SMD CHIP FUSES
## FUSIBILI SMD CHIP

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1206 | T | 430.000 | 750 mA ~ 5 A | 63 V | 50 A | | Ceramic Ceramica | |
| | T | 1.430.000 | 1 A ~ 10 A | 63 V | | | | |
| | F | 431.000 | 500 mA ~ 10 A | 63 V /125 V | | | | |
| 0402 | FF | 0402 | 500 mA ~ 3,15 A | 32 V | | | | |
| 0603 | FF | 0603 | 500 mA ~ 5 A | 32 V | | | | |
| 0805 | FF | 0805 | 500 mA ~ 5 A | 32 V | | | | |
| 1206 | FF | 1206 | 500 mA ~ 6,3 A | 63 V | | | | |

## POLYTRON RESESTABLE FUSES
## POLYTRON FUSIBILI AUTORIPRISTINANTI

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| GROUP | CODE | I. RATING I. NOM. | V. RATING TENS. NOM. | TRIP CURRENT CORRENTE INTERV. | OPERATING TEMP. TEMP. OPERATIVA | APPROVAL OMOLOGAZIONE | PAG. |
|---|---|---|---|---|---|---|---|
| RADIAL LEADED RADIALE | FRX Series | 50 mA ~ 3,75 A | 60 V | 0.10 A ~ 7,50 A | -40° C ~ 85° C | | |
| | FRX90V Series | 10 mA - 3,75 A | 90 V | 0.20 A ~ 7,50 A | -40° C ~ 85° C | | |
| | FRU Series | 900 mA - 9 A | 30 V | 1,80 A ~ 18 A | -40° C ~ 85° C | | |
| | FRT Series | 500 mA - 2,5 A | 36 V | 1 A ~ 4 A | -40° C ~ 85° C | | |
| | FUSB Series | 750 mA ~ 2,5 A | 16 V | 1,30 A ~ 5 A | -40° C ~ 85° C | | |
| | FRG Series | 2,5 A ~ 14 A | 16 V | 4,7 A ~ 23,8 A | -40° C ~ 85° C | | |
| | FHT Series | 500 mA ~ 15 A | 16 V / 30 V | 0,9 A ~ 28 A | -40° C ~ 125° C | | |
| | FHE Series | 500 mA - 10 A | 32 V | 1 A ~ 20 A | -40° C ~ 125° C | | |



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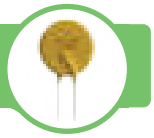
# POLYTRON RESESTABLE FUSES
# POLYTRON FUSIBILI AUTORIPRISTINANTI



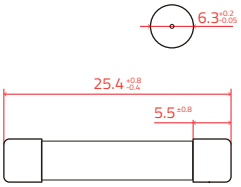
| GROUP | CODE | I. RATING I. NOM. | V. RATING TENS. NOM. | TRIP CURRENT CORRENTE INTERV. | OPERATING TEMP. TEMP. OPERATIVA | APPROVAL OMOLOGAZIONE | PAG. |
|---|---|---|---|---|---|---|---|
| **RADIAL LEADED** RADIALE | FRHV Series | 80 mA - 40 mA | 60 V / 250 V | 0,16 A ~ 1 A | -40° C ~ 85° C | | |
| | FRVL Series | 100 mA - 3,75 A | 120 V | 0,20 A ~ 7,50 A | -40° C ~ 85° C | | |
| | FRV Series | 50 mA ~ 2 A | 240 V | 0,12 A ~ 4 A | -40° C ~ 85° C | | |
| **SURFACE MOUNT** MONTAGGIO SUPERFICIALE | FSMD0603 | 10 mA ~ 200 mA | 9 V / 60 V | 0,03 A ~ 0,45 A | -40° C ~ 85° C | | |
| | FSMD0805 | 0.10 A ~ 1 A | 6 V / 24 V | 0,30 A ~ 2,20 A | -40° C ~ 85°C | | |
| | FSMD1206 | 0.05 A ~ 2 A | 6 V / 60 V | 0,15 A ~ 3,50 A | -40° C ~ 85° C | | |
| | FSMD1210 | 0.05 A ~ 2 A | 6 V / 60 V | 0,15 A ~ 4 A | -40° C ~ 85° C | | |
| | FSMD1812 | 100 mA - 43 mA | 6 V / 60 V | 0,30 A ~ 5 A | -40° C ~ 85° C | | |
| | FSMD1216 | 300 mA - 2 A | 6 V / 60 V | 0,60 A ~ 4,20 A | -40° C ~ 85° C | | |
| | FSMD2920 | 300 mA ~ 5 A | 6 V / 60 V | 0,60 A ~ 10 A | -40° C ~ 85° C | | |

Klemi Contact
The connectables

# THERMAL FUSES
# TERMOFUSIBILI

| GROUP | CODE | I. RATING I. NOM. | V. RATING TENS. NOM. | TEMP. RANGE TEMP. D'UTILIZZO | MAX. OVERSHOOT TEMP. MAX. TEMP. OSCILLAZIONE | APPROVAL OMOLOGAZIONE | PAG. |
|---|---|---|---|---|---|---|---|
| **AXIAL** ASSIALE | 761.000 | 5 A | 24 V dc / 250 ac | 77° C ~ 192° C | 125° C ~ 210° C | | |
| | 770.000 / 771.000 | 5 A / 21 A | 24 V ~ 240 V | 72° C ~ 257° C | 100° C ~ 470° C | | |
| | 776.000 / 777.000 | 10 A | 125 V / 250 V | 72° C ~ 240° C | 200° C ~ 370° C | | |
| | 778.000 / 779.000 | 20 A | 250 V | 72° C ~ 240° C | 120° C ~ 370° C | | |
| | 780.000 / 781.000 | 15 A ~ 25 A | 120 V / 240 V 250 V / 277 V | 72° C ~ 240° C | 220° C ~ 410° C | | |
| | 785.000 | 20 A / 25 A | 250 V / 277 V | 72° C ~ 240° C | 220° C ~ 410° C | | |
| **RADIAL** RADIALE | 700.000-S | 1 A | 250 V | 76° C ~ 160° C | 200° C | | |
| | 700.000-X | 1 A | 250 V | 84° C ~ 160° C | 203° C | | |
| | 710.000-S | 2 A | 60 V / 250 V | 76° C ~ 221° C | 200° C ~ 250° C | | |
| | 710.000-X | 2 A | 250 V | 84° C ~ 160° C | 203° C | | |
| | 720.000-S | 3 A | 60 V / 250 V | 76° C ~ 221° C | 200° C ~ 250° C | | |
| | 720.000-X | 3 A | 250 V | 84° C ~ 160° C | 203 | | |
| | 730.000-S | 5 A | 250 V | 76° C ~ 160°C | 200° C | | |
| | 730.000-X | 5 A | 250 V | 84° C ~ 160° C | 203° C | | |
| **AXIAL** ASSIALE | 735.000-S | 1 A | 50 V / 125 V 250 V | 76° C ~ 150° C | 200° C | | |
| | 735.000-X | 1 A | 250 V | 102° C ~ 223° C | 200° C / 280° C | | |
| | 740.000-S | 2 A | 50 V 60 V 125 V / 250 V | 76° C ~ 221° C | 200° C / 250° C | | |
| | 740.000-X | 2 A | 250 V | 102° C ~ 223° C | 200° C / 280° C | | |
| | 750.000-S | 3 A | 50 V 60 V 125 V / 250 V | 76° C ~ 221° C | 200° C / 250° C | | |
| | 750.000-X | 2 A | 250 V | 84° C ~ 150° C | 200° C | | |
| | 755.000-S | 5 A / 7 A | 50 V 60 V 125 V / 250 V | 76° C ~ 221° C | 200° C / 250° C | | |
| | 755.000-X | 5 A | 250 V | 84° C ~ 150° C | 200° C | | |

# TDC180




F | IEC 60269-3 | ac

**As assembly with two pigtails on various form and lenght**
Assemblato con due cappucci con terminali a lunghezza custom

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

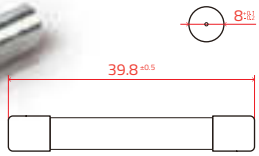
| | | | |
|---|---|---|---|
| **Body** Corpo | Ceramic Ceramica | **Voltage** Tensione | 32 V |
| **Contacts material** Materiale contatti | 2 A ~ 5 A / CuZn<br>1 A & 7 A / Cu<br>10 A & 13 A / Cu | **Contact finishing** Finitura contatti | 2 A ~ 5 A / Ni<br>1 A & 7 A / Ag<br>10 A & 13 A / Ni |

## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 1.0 x In MIN | 1.6 x In MIN | 1.9 x In MIN | 1.9 x In MAX |
|---|---|---|---|---|
| 1 A ~ 13 A | 1000 h | 1800 s | 0 | 1800 s |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | V.D. C.D.T. | POW. DIS. POT. DIS. | MELTING RATING FUSIONE NOM. |
|---|---|---|---|---|---|
| TDC1801A | 1 A | 6000 A | A rich. / On req. | 1 W | 0.9 $A^2s$ |
| TDC1802A | 2 A | 6000 A | A rich. / On req. | 1 W | 9.1 $A^2s$ |
| TDC1803A | 3 A | 6000 A | A rich. / On req. | 1 W | 34.3 $A^2s$ |
| TDC1805A | 5 A | 6000 A | A rich. / On req. | 1 W | 135 $A^2s$ |
| TDC1807A | 7 A | 6000 A | A rich. / On req. | 1 W | 114 $A^2s$ |
| TDC18010A | 10 A | 6000 A | A rich. / On req. | 1 W | 345 $A^2s$ |
| TDC18013A | 13 A | 6000 A | A rich. / On req. | 1 W | 870 $A^2s$ |

# 556.000




M/F | DIN 41686 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body** Corpo | Glass Vetro | **Extinguishing agent** Polvere spegniarco | 315 mA ~ 10 A |
| **Voltage** Tensione | 500 V | **Contacts material** Materiale contatti | CuZn |
| | | **Contacts finishing** Finitura contatti | Ni |

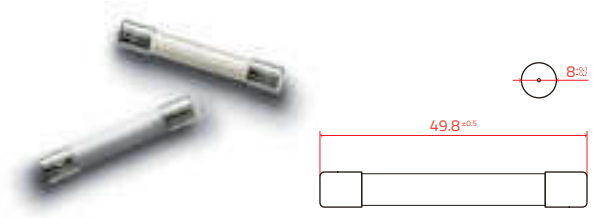
## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 1.5 x In MIN | 2.1 x In MIN | 2.1 x In MAX | 4 x In MIN | 4 x In MAX | 10 x In MIN | 10 x In MAX |
|---|---|---|---|---|---|---|---|
| 32 mA ~ 100 mA | 1 h | 0 | 30 min | 40 ms | 500 ms | 5 ms | 30 ms |
| 125 mA ~ 1 A | 1 h | 0 | 30 min | 0 | 400 ms | 0 | 30 ms |
| 1,25 A ~ 10 A | 1 h | 0 | 30 min | 0 | 30 ms | 0 | 20 ms |

| | CODE | I. RATING I. NOM | VOLTAGE DROP CADUTA DI TENSIONE | BREAKING CAPACITY CAPACITÀ DI ROTTURA | POW. DIS. POT. DIS. |
|---|---|---|---|---|---|
| M | 556.002 | 32 mA | 2300 mV | 80 A | A rich. / On req. |
| M | 556.003 | 40 mA | 1900 mV | 80 A | A rich. / On req. |
| M | 556.004 | 50 mA | 1600 mV | 80 A | A rich. / On req. |
| M | 556.005 | 63 mA | 1300 mV | 80 A | A rich. / On req. |
| M | 556.006 | 80 mA | 950 mV | 80 A | A rich. / On req. |
| M | 556.007 | 100 mA | 700 mV | 80 A | A rich. / On req. |
| M | 556.008 | 125 mA | 7300 mV | 80 A | A rich. / On req. |
| M | 556.009 | 160 mA | 4700 mV | 80 A | A rich. / On req. |
| M | 556.010 | 200 mA | 3600 mV | 80 A | A rich. / On req. |
| M | 556.011 | 250 mA | 2800 mV | 80 A | A rich. / On req. |
| F | 556.012 | 315 mA | 2300 mV | 1500 A | A rich. / On req. |
| F | 556.013 | 400 mA | 1800 mV | 1500 A | A rich. / On req. |
| F | 556.014 | 500 mA | 1250 mV | 1500 A | A rich. / On req. |
| F | 556.015 | 630 mA | 1000 mV | 1500 A | A rich. / On req. |
| F | 556.016 | 800 mA | 800 mV | 1500 A | A rich. / On req. |
| F | 556.017 | 1 A | 620 mV | 1500 A | A rich. / On req. |
| F | 556.018 | 1,25 A | 520 mV | 1500 A | A rich. / On req. |
| F | 556.019 | 1,6 A | 450 mV | 1500 A | A rich. / On req. |
| F | 556.020 | 2 A | 400 mV | 1500 A | A rich. / On req. |
| F | 556.021 | 2,5 mA | 370 mV | 1500 A | A rich. / On req. |
| F | 556.022 | 3,15 mA | 340 mV | 1500 A | A rich. / On req. |
| F | 556.023 | 4 A | 320 mV | 1500 A | A rich. / On req. |
| F | 556.024 | 5 A | 310 mV | 1500 A | A rich. / On req. |
| F | 556.025 | 6,3 A | 300 mV | 1500 A | A rich. / On req. |
| F | 556.026 ❶ | 8 A | 300 mV | 1500 A | A rich. / On req. |
| F | 556.027 ❶ | 10 A | 250 mV | 1500 A | A rich. / On req. |

❶ Not mentioned in the standards
Non menzionato negli standards

# 557.000




RoHS

DIN 41570 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body** Corpo | Glass Vetro | **Extinguishing agent** Polvere spegniarco | 160 mA ~ 6,3 A |
| **Voltage** Tensione | 1,2 kV | **Contacts material** Materiale contatti | CuZn |
| | | **Contacts finishing** Finitura contatti | Ni |

## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 1.5 x In MIN | 2.1 x In MIN | 2.1 x In MAX | 4 x In MIN | 4 x In MAX | 10 x In MIN | 10 x In MAX |
|---|---|---|---|---|---|---|---|
| 32 mA ~ 100 mA | 1 h | 0 | 30 min | 0 | 500 ms | 0 | 30 ms |
| 125 mA ~ 6,3 A | 1 h | 0 | 30 min | 0 | 300 ms | 0 | 20 ms |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | VOLTAGE DROP CADUTA DI TENSIONE | POW. DIS. POT. DIS. |
|---|---|---|---|---|
| 557.002 | 32 mA | 35 A | 2300 mV | A rich. / On req. |
| 557.003 ❶ | 40 mA | 35 A | 2000 mV | A rich. / On req. |
| 557.004 | 50 mA | 35 A | 1900 mV | A rich. / On req. |
| 557.005 | 63 mA | 35 A | 1700 mV | A rich. / On req. |
| 557.006 | 80 mA | 35 A | 1500 mV | A rich. / On req. |
| 557.007 | 100 mA | 35 A | 1300 mV | A rich. / On req. |
| 557.008 | 125 mA | 35 A | 9500 mV | A rich. / On req. |
| 557.009 | 160 mA | 35 A | 8000 mV | A rich. / On req. |
| 557.010 | 200 mA | 35 A | 7000 mV | A rich. / On req. |
| 557.011 | 250 mA | 35 A | 6000 mV | A rich. / On req. |
| 557.012 | 315 mA | 35 A | 5000 mV | A rich. / On req. |
| 557.013 | 400 mA | 35 A | 2000 mV | A rich. / On req. |
| 557.014 | 500 mA | 35 A | 950 mV | A rich. / On req. |
| 557.015 | 630 mA | 35 A | 860 mV | A rich. / On req. |
| 557.016 | 800 mA | 35 A | 760 mV | A rich. / On req. |
| 557.017 | 1 A | 35 A | 640 mV | A rich. / On req. |
| 557.018 | 1,25 A | 35 A | 540 mV | A rich. / On req. |
| 557.019 | 1,6 A | 35 A | 500 mV | A rich. / On req. |
| 557.020 | 2 A | 35 A | 460 mV | A rich. / On req. |
| 557.021 ❶ | 2,5 A | 35 A | 450 mV | A rich. / On req. |
| 557.022 ❶ | 3,15 A | 35 A | 450 mV | A rich. / On req. |
| 557.023 ❶ | 4 A | 35 A | 450 mV | A rich. / On req. |
| 557.024 ❶ | 5 A | 35 A | 400 mV | A rich. / On req. |
| 557.025 ❶ | 6,3 A | 35 A | 400 mV | A rich. / On req. |

❶ **Not mentioned in the standards**
Non menzionato negli standards

# 558.000


RoHS

DIN 41569 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body** Corpo | Glass Vetro | **Extinguishing agent** Polvere spegniarco | 125 mA ~ 4 A |
| **Voltage** Tensione | 3 kV | **Contacts material** Materiale contatti | CuZn |
| | | **Contacts finishing** Finitura contatti | Ni |

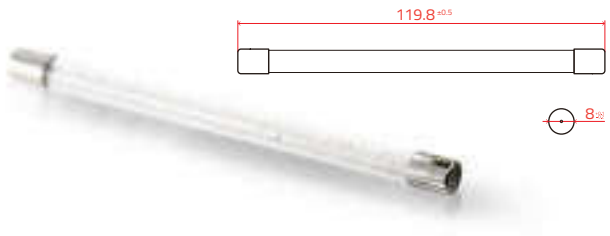
## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 1.5 x In MIN | 2.1 x In MIN | 2.1 x In MAX | 4 x In MIN | 4 x In MAX | 10 x In MIN | 10 x In MAX |
|---|---|---|---|---|---|---|---|
| 32 mA ~ 100 mA | 1 h | 0 | 30 min | 0 | 500 ms | 0 | 30 ms |
| 125 mA ~ 4 A | 1 h | 0 | 30 min | 0 | 300 ms | 0 | 20 ms |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | VOLTAGE DROP CADUTA DI TENSIONE | POW. DIS. POT. DIS. |
|---|---|---|---|---|
| 558.002 | 32 mA | 35 A | 4500 mV | A rich. / On req. |
| 558.003 ❶ | 40 mA | 35 A | 4000 mV | A rich. / On req. |
| 558.004 | 50 mA | 35 A | 3000 mV | A rich. / On req. |
| 558.005 | 63 mA | 35 A | 2400 mV | A rich. / On req. |
| 558.006 | 80 mA | 35 A | 1900 mV | A rich. / On req. |
| 558.007 | 100 mA | 35 A | 1500 mV | A rich. / On req. |
| 558.008 | 125 mA | 35 A | 17000 mV | A rich. / On req. |
| 558.009 | 160 mA | 35 A | 14000 mV | A rich. / On req. |
| 558.010 | 200 mA | 35 A | 12000 mV | A rich. / On req. |
| 558.011 | 250 mA | 35 A | 10500 mV | A rich. / On req. |
| 558.012 | 315 mA | 35 A | 9000 mV | A rich. / On req. |
| 558.013 | 400 mA | 35 A | 3500 mV | A rich. / On req. |
| 558.014 | 500 mA | 35 A | 1600 mV | A rich. / On req. |
| 558.015 | 630 mA | 35 A | 1500 mV | A rich. / On req. |
| 558.016 | 800 mA | 35 A | 1300 mV | A rich. / On req. |
| 558.017 | 1 A | 35 A | 1200 mV | A rich. / On req. |
| 558.018 | 1,25 A | 35 A | 1000 mV | A rich. / On req. |
| 558.019 | 1,6 A | 35 A | 900 mV | A rich. / On req. |
| 558.020 | 2 A | 35 A | 800 mV | A rich. / On req. |
| 558.021 ❶ | 2,5 A | 35 A | 1000 mV | A rich. / On req. |
| 558.022 ❶ | 3,15 A | 35 A | 500 mV | A rich. / On req. |
| 558.023 ❶ | 4 A | 35 A | 500 mV | A rich. / On req. |

❶ **Not mentioned in the standards**
Non menzionato negli standards

# 559.000




RoHS

DIN 41683 ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body** Corpo | Glass Vetro | **Extinguishing agent** Polvere spegniarco | 125 mA ~ 8 A |
| **Voltage** Tensione | 6 kV | **Contacts material** Materiale contatti | CuZn |
| | | **Contacts finishing** Finitura contatti | Ni |

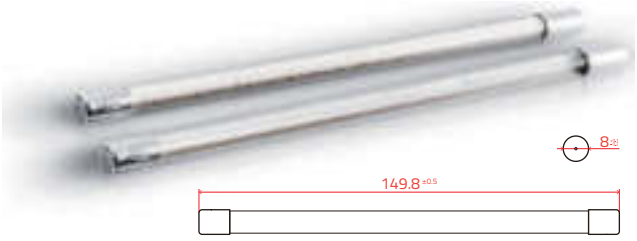
## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 1.5 x In MIN | 2.1 x In MIN | 2.1 x In MAX | 4 x In MIN | 4 x In MAX | 10 x In MIN | 10 x In MAX |
|---|---|---|---|---|---|---|---|
| 32 mA ~ 100 mA | 1 h | 0 | 30 min | 0 | 500 ms | 0 | 30 ms |
| 125 mA ~ 8 A | 1 h | 0 | 30 min | 0 | 300 ms | 0 | 20 ms |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | VOLTAGE DROP CADUTA DI TENSIONE | POW. DIS. POT. DIS. |
|---|---|---|---|---|
| **559.002** | 32 mA | 35 A | 6000 mV | A rich. / On req. |
| **559.003** ❶ | 40 mA | 35 A | 5000 mV | A rich. / On req. |
| **559.004** | 50 mA | 35 A | 4400 mV | A rich. / On req. |
| **559.005** | 63 mA | 35 A | 3800 mV | A rich. / On req. |
| **559.006** | 80 mA | 35 A | 3200 mV | A rich. / On req. |
| **559.007** | 100 mA | 35 A | 2900 mV | A rich. / On req. |
| **559.008** | 125 mA | 35 A | 22000 mV | A rich. / On req. |
| **559.009** | 160 mA | 35 A | 19000 mV | A rich. / On req. |
| **559.010** | 200 mA | 35 A | 16000 mV | A rich. / On req. |
| **559.011** | 250 mA | 35 A | 14000 mV | A rich. / On req. |
| **559.012** | 315 mA | 35 A | 12000 mV | A rich. / On req. |
| **559.013** | 400 mA | 35 A | 5000 mV | A rich. / On req. |
| **559.014** | 500 mA | 35 A | 23000 mV | A rich. / On req. |
| **559.015** | 630 mA | 35 A | 2000 mV | A rich. / On req. |
| **559.016** | 800 mA | 35 A | 1900 mV | A rich. / On req. |
| **559.017** | 1 A | 35 A | 1800 mV | A rich. / On req. |
| **559.018** | 1,25 A | 35 A | 1400 mV | A rich. / On req. |
| **559.019** | 1,6 A | 35 A | 1300 mV | A rich. / On req. |
| **559.020** | 2 A | 35 A | 1100 mV | A rich. / On req. |
| **559.021** ❶ | 2,5 A | 35 A | 1000 mV | A rich. / On req. |
| **559.022** ❶ | 3,15 A | 35 A | 1000 mV | A rich. / On req. |
| **559.023** ❶ | 4 A | 35 A | 1000 mV | A rich. / On req. |
| **559.024** ❶ | 5 A | 35 A | 800 mV | A rich. / On req. |
| **559.025** ❶ | 6,3 A | 35 A | 500 mV | A rich. / On req. |
| **559.026** ❶ | 8 A | 35 A | 500 mV | A rich. / On req. |

❶ **Not mentioned in the standards /** Non menzionato negli standards

# 560.000




RoHS

DIN 41684 ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body** Corpo | Glass Vetro | **Extinguishing agent** Polvere spegniarco | 125 mA ~ 2 A |
| **Voltage** Tensione | 10 kV | **Contacts material** Materiale contatti | CuZn |
| | | **Contacts finishing** Finitura contatti | Ni |

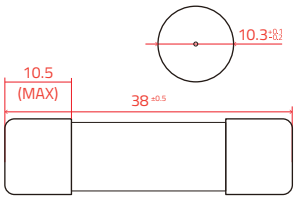
## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 1.5 x In MIN | 2.1 x In MIN | 2.1 x In MAX | 4 x In MIN | 4 x In MAX | 10 x In MIN | 10 x In MAX |
|---|---|---|---|---|---|---|---|
| 32 mA ~ 100 mA | 1 h | 0 | 30 min | 0 | 500 ms | 0 | 30 ms |
| 125 mA ~ 2 A | 1 h | 0 | 30 min | 0 | 300 ms | 0 | 20 ms |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | VOLTAGE DROP CADUTA DI TENSIONE | POW. DIS. POT. DIS. |
|---|---|---|---|---|
| **560.002** | 32 mA | 35 A | 14000 mV | A rich. / On req. |
| **560.003** | 40 mA | 35 A | 12000 mV | A rich. / On req. |
| **560.004** | 50 mA | 35 A | 8500 mV | A rich. / On req. |
| **560.005** ❶ | 63 mA | 35 A | 6500 mV | A rich. / On req. |
| **560.006** | 80 mA | 35 A | 5000 mV | A rich. / On req. |
| **560.007** | 100 mA | 35 A | 4000 mV | A rich. / On req. |
| **560.008** | 125 mA | 35 A | 27000 mV | A rich. / On req. |
| **560.009** | 160 mA | 35 A | 24000 mV | A rich. / On req. |
| **560.010** | 200 mA | 35 A | 21000 mV | A rich. / On req. |
| **560.011** | 250 mA | 35 A | 18500 mV | A rich. / On req. |
| **560.012** | 315 mA | 35 A | 17000 mV | A rich. / On req. |
| **560.013** | 400 mA | 35 A | 6000 mV | A rich. / On req. |
| **560.014** | 500 mA | 35 A | 2900 mV | A rich. / On req. |
| **560.015** | 630 mA | 35 A | 2700 mV | A rich. / On req. |
| **560.016** | 800 mA | 35 A | 2400 mV | A rich. / On req. |
| **560.017** | 1 A | 35 A | 2100 mV | A rich. / On req. |
| **560.018** | 1,25 A | 35 A | 1800 mV | A rich. / On req. |
| **560.019** | 1,6 A | 35 A | 1600 mV | A rich. / On req. |
| **560.020** | 2 A | 35 A | 1400 mV | A rich. / On req. |

❶ **Not mentioned in the standards**
Non menzionato negli standards

# 1038.100




FF / gR | IEC 60269-4 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

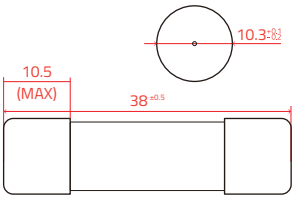
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | ☑ |
| **Voltage**<br>Tensione | 690 V | **Contacts material**<br>Materiale contatti | CuZn |
| | | **Contacts finishing**<br>Finitura contatti | Ni |

## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 2.1 x In | 4 x In | 10 x In |
|---|---|---|---|
| 1 A ~ 32 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. | |
|---|---|---|---|---|---|---|
| | | | | | PRE-ARCING | OPERATING |
| **1038.117** | 1 A | 160.000 A | 800 mV | 0.8 W | 0.17 $A^2$ s | 0.48 $A^2$ s |
| **1038.118** | 1,25 A | 160.000 A | 1200 mV | 1.5 W | 0.18 $A^2$ s | 0.55 $A^2$ s |
| **1038.119** | 1,5 A | 160.000 A | 800 mV | 1.2 W | 0.31 $A^2$ s | 0.80 $A^2$ s |
| **1038.120** | 2 A | 160.000 A | 350 mV | 1.3 W | 0.94 $A^2$ s | 2.50 $A^2$ s |
| **1038.121** | 2,5 A | 160.000 A | 560 mV | 1.4 W | 1.65 $A^2$ s | 4.50 $A^2$ s |
| **1038.122** | 3 A | 160.000 A | 500 mV | 1.5 W | 2.83 $A^2$ s | 7.80 $A^2$ s |
| **1038.123** | 4 A | 160.000 A | 425 mV | 1.7 W | 6.7 $A^2$ s | 12 $A^2$ s |
| **1038.124** | 5 A | 160.000 A | 180 mV | 0.9 W | 7.5 $A^2$ s | 30 $A^2$ s |
| **1038.125** | 6 A | 160.000 A | 233 mV | 1.4 W | 8.5 $A^2$ s | 40 $A^2$ s |
| **1038.126** | 8 A | 160.000 A | 237 mV | 1.9 W | 5.4 $A^2$ s | 35 $A^2$ s |
| **1038.127** | 10 A | 160.000 A | 210 mV | 2.1 W | 6.7 $A^2$ s | 55 $A^2$ s |
| **1038.128** | 12,5 A | 160.000 A | 224 mV | 2.8 W | 11 $A^2$ s | 90 $A^2$ s |
| **1038.130** | 16 A | 160.000 A | 187 mV | 3.0 W | 19 $A^2$ s | 140 $A^2$ s |
| **1038.131** | 20 A | 160.000 A | 185 mV | 3.7 W | 39 $A^2$ s | 245 $A^2$ s |
| **1038.132** | 25 A | 160.000 A | 172 mV | 4.3 W | 69 $A^2$ s | 425 $A^2$ s |
| **1038.133** | 30 A | 160.000 A | 163 mV | 4.9 W | 107 $A^2$ s | 675 $A^2$ s |
| **1038.134** | 32 A | 160.000 A | 159 mV | 5.1 W | 154 $A^2$ s | 945 $A^2$ s |

# 1038.300




T / aM | IEC 60269-1 | IEC 60269-2 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

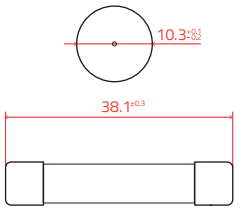
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | ☑ |
| **Voltage**<br>Tensione | 400 V / 500 V | **Contacts material**<br>Materiale contatti | CuZn |
| | | **Contacts finishing**<br>Finitura contatti | Ni |

## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 2.1 x In | 4 x In | 10 x In |
|---|---|---|---|
| 160 mA ~ 32 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | VOLTAGE<br>TENSIONE | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. |
|---|---|---|---|---|---|
| **1038.309** | 160 mA | 120 k A | 500 V | 0.24 W | 3.0 $A^2$ s |
| **1038.311** | 250 mA | 120 k A | 500 V | 0.36 W | 4.0 $A^2$ s |
| **1038.314** | 500 mA | 120 k A | 500 V | 0.49 W | 6.5 $A^2$ s |
| **1038.317** | 1 A | 120 k A | 500 V | 0.10 W | 9.5 $A^2$ s |
| **1038.320** | 2 A | 120 k A | 500 V | 0.18 W | 40 $A^2$ s |
| **1038.323** | 4 A | 120 k A | 500 V | 0.31 W | 90 $A^2$ s |
| **1038.325** | 6 A | 120 k A | 500 V | 0.32 W | 120 $A^2$ s |
| **1038.326** | 8 A | 120 k A | 500 V | 0.52 W | 220 $A^2$ s |
| **1038.327** | 10 A | 120 k A | 500 V | 0.55 W | 300 $A^2$ s |
| **1038.328** | 12 A | 120 k A | 500 V | 0.63 W | 380 $A^2$ s |
| **1038.330** | 16 A | 120 k A | 500 V | 0.92 W | 550 $A^2$ s |
| **1038.331** | 20 A | 120 k A | 400 V | 0.96 W | 950 $A^2$ s |
| **1038.332** | 25 A | 120 k A | 400 V | 1.40 W | 1300 $A^2$ s |
| **1038.334** | 32 A | 120 k A | 400 V | 1.80 W | 3000 $A^2$ s |

## 1038.400




F | UL No. 248-14 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

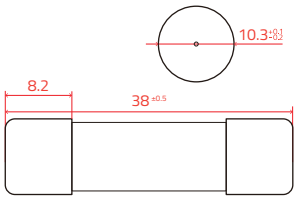
| | | | |
|---|---|---|---|
| **Body** Corpo | Melamine Melammina | **Extinguishing agent** Polvere spegniarco | ☑ |
| **Voltage** Tensione | 600 V | **Contacts material** Materiale contatti | CuZn |
| **Terminal Connection** Connessione | Ferrule | **Contacts finishing** Finitura contatti | Ni |

### TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 10 x In MAX | 1.6 x In MIN | 1.6 x In MAX | 1.9 x In MIN | 1.9 x In MAX |
|---|---|---|---|---|---|
| 250 mA ~ 30 A | 4 h | 0 | 1 h | 0 | 30 s |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | V.D. C.D.T. | POW. DIS. POT. DIS. | MELTING RATING FUSIONE NOM. |
|---|---|---|---|---|---|
| **1038.410** | 200 mA | 100.000 A | A rich. / On req. | | |
| **1038.414** | 500 mA | 100.000 A | A rich. / On req. | | |
| **1038.416** | 750 mA | 100.000 A | A rich. / On req. | | |
| **1038.417** | 1 A | 100.000 A | A rich. / On req. | | |
| **1038.419** | 1,5 A | 100.000 A | A rich. / On req. | | |
| **1038.420** | 2 A | 100.000 A | A rich. / On req. | | |
| **1038.423** | 4 A | 100.000 A | A rich. / On req. | | |
| **1038.425** | 6 A | 100.000 A | A rich. / On req. | | |
| **1038.426** | 8 A | 100.000 A | A rich. / On req. | | |
| **1038.427** | 10 A | 100.000 A | A rich. / On req. | | |
| **1038.429** | 15 A | 100.000 A | A rich. / On req. | | |
| **1038.431** | 20 A | 100.000 A | A rich. / On req. | | |
| **1038.432** | 25 A | 100.000 A | A rich. / On req. | | |
| **1038.433** | 30 A | 100.000 A | A rich. / On req. | | |

## 1038.600




F / gG | IEC 60269-1 | IEC 60269-2 | ac

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body** Corpo | Ceramic Ceramica | **Extinguishing agent** Polvere spegniarco | ☑ |
| **Voltage** Tensione | 400 V / 500 V | **Contacts material** Materiale contatti | CuZn |
| | | **Contacts finishing** Finitura contatti | Ni |

### TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT CORRENTE NOMINALE | 2.1 x In | 4 x In | 10 x In |
|---|---|---|---|
| 500 mA ~ 32 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING I. NOM | BREAKING CAPACITY CAPACITÀ DI ROTTURA | VOLTAGE TENSIONE | POW. DIS. POT. DIS. | MELTING RATING FUSIONE NOM. |
|---|---|---|---|---|---|
| **1038.614** | 0.5 A | 120 kA | 500 V | 1.43 W | 4.0 A² s |
| **1038.617** | 1 A | 120 kA | 500 V | 2.77 W | 6.5 A² s |
| **1038.620** | 2 A | 120 kA | 500 V | 0.60 W | 7.0 A² s |
| **1038.623** | 4 A | 120 kA | 500 V | 0.70 W | 45 A² s |
| **1038.625** | 6 A | 120 kA | 500 V | 0.85 W | 70 A² s |
| **1038.626** | 8 A | 120 kA | 500 V | 0.75 W | 80 A² s |
| **1038.627** | 10 A | 120 kA | 500 V | 1.00 W | 120 A² s |
| **1038.628** | 12 A | 120 kA | 500 V | 1.30 W | 180 A² s |
| **1038.630** | 16 A | 120 kA | 500 V | 1.60 W | 270 A² s |
| **1038.631** | 20 A | 120 kA | 500 V | 2.00 W | 500 A² s |
| **1038.632** | 25 A | 120 kA | 500 V | 2.60 W | 800 A² s |
| **1038.634** | 32 A | 120 kA | 400 V | 2.90 W | 1200 A² s |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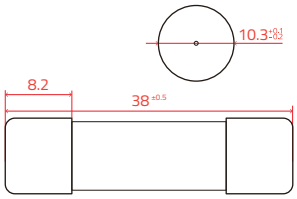
# 1038.800




FF / gR | IEC 60269-1 | ac/dc

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

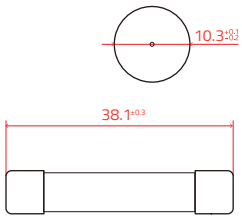
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | ☑ |
| **Voltage**<br>Tensione | 1000 V | **Contacts material**<br>Materiale contatti | CuZn |
| | | **Contacts finishing**<br>Finitura contatti | Ni |

## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 1 x In<br>MIN | 2.1 x In<br>MIN | 2.1 x In<br>MAX | 4 x In<br>MIN | 4 x In<br>MAX | 10 x In<br>MIN | 10 x In<br>MAX |
|---|---|---|---|---|---|---|---|
| 440 Ma ~ 500 mA | 60 min | 0 | 20 min | 0 | 10 s | 0 | 200 ms |
| 1 A ~ 4 A | 60 min | 0 | 2 min | 0 | 200 ms | 0 | 10 ms |
| 10 A ~ 15 A | 60 min | 0 | 10 s | 0 | 200 ms | 0 | 10 ms |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM.<br>PRE-ARCING | MELTING RATING<br>FUSIONE NOM.<br>OPERATING |
|---|---|---|---|---|---|---|
| **1038.814** | 500 mA | 30.000 A | - | - | - | 0.08 $A^2s$ |
| **1038.817** | 1 A | 30.000 A | - | - | - | 3.2 $A^2s$ |
| **1038.820** | 2 A | 30.000 A | 450 mV | 0.9 W | 1.3 $A^2s$ | 2 $A^2s$ |
| **1038.823** | 4 A | 30.000 A | 300 mV | 1.2 W | 3.3 $A^2s$ | 16.3 $A^2s$ |
| **1038.825** | 6 A | 30.000 A | 270 mV | 1.6 W | 5.5 $A^2s$ | 54.5 $A^2s$ |
| **1038.826** | 8 A | 30.000 A | 230 mV | 1.8 W | 8 $A^2s$ | 109 $A^2s$ |
| **1038.827** | 10 A | 30.000 A | 210 mV | 2.1 W | 11 $A^2s$ | 70.2 $A^2s$ |
| **1038.828** | 12 A | 30.000 A | 150 mV | 1.7 W | 23 $A^2s$ | 95.9 $A^2s$ |
| **1038.830** | 16 A | 30.000 A | 150 mV | 2.3 W | 35 $A^2s$ | 215 $A^2s$ |
| **1038.831** | 20 A | 30.000 A | 160 mV | 3.2 W | 50 $A^2s$ | 439.9 $A^2s$ |
| **1038.832** | 25 A | 30.000 A | - | - | 75 $A^2s$ | - |

# FNQ-R




T | UL No. 248-14 | UL No. 248-1 | ac

**Class CC Branch Circuit Fuses**
Fusibili per circuiti derivati di classe CC

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

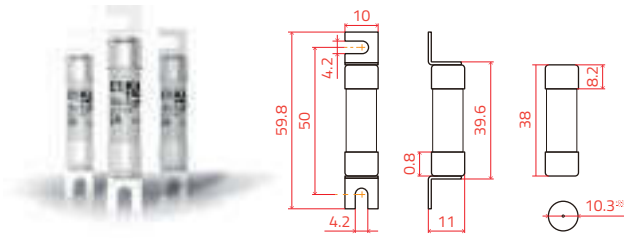
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Melamine<br>Melammina | **Extinguishing agent**<br>Polvere spegniarco | ☒ |
| **Voltage**<br>Tensione | 600 V | **Contacts material**<br>Materiale contatti | CuZn |
| **Terminal Connection**<br>Connessione | Ferrule | **Contacts finishing**<br>Finitura contatti | Ni |

## TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 10 x In<br>MAX | 1.6 x In<br>MIN | 1.6 x In<br>MAX | 1.9 x In<br>MIN | 1.9 x In<br>MAX |
|---|---|---|---|---|---|
| 250 mA ~ 30 A | 4 h | 0 | 1 h | 0 | 30 s |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. |
|---|---|---|---|---|---|
| **FNQ-R-1/4** | 250 mA | 200.000 A | A rich. / On req. | | |
| **FNQ-R-1/2** | 500 mA | 200.000 A | A rich. / On req. | | |
| **FNQ-R-1** | 1 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-2** | 2 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-3** | 3 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-4** | 4 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-5** | 5 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-6** | 6 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-7** | 7 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-8** | 8 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-9** | 9 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-10** | 10 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-12** | 12 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-15** | 15 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-20** | 20 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-25** | 25 A | 200.000 A | A rich. / On req. | | |
| **FNQ-R-30** | 30 A | 200.000 A | A rich. / On req. | | |

# 1038.500




RoHS

FF IEC 60269-4

**Add a -1 to the end of the article for flanged version**
Aggiungere un -1 al termine dell'articolo per versione con flange

10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

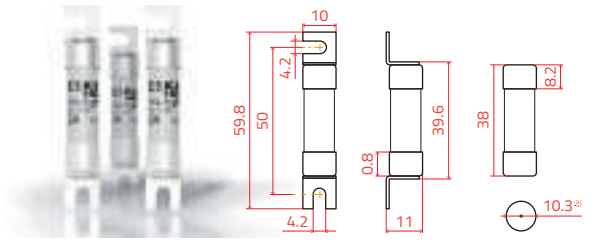
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | |
| **Voltage**<br>Tensione | 700 Vdc | **Contacts material**<br>Materiale contatti | A rich. / On req. |

**TIME CURRENT /** TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 10 x In | 1.6 x In | 1.9 x In |
|---|---|---|---|
| 2 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | VOLTAGE DROP<br>CADUTA DI TENSIONE | POW. DIS.<br>POT. DIS. |
|---|---|---|---|---|
| **1038.520** | 2 A | 30.000 A | A rich. / On req. | 1,1 W |
| **1038.523** | 4 A | 30.000 A | A rich. / On req. | 1,3 W |
| **1038.525** | 6 A | 30.000 A | A rich. / On req. | 1,7 W |
| **1038.526** | 8 A | 30.000 A | A rich. / On req. | 1,62 W |
| **1038.527** | 10 A | 30.000 A | A rich. / On req. | 2,44 W |
| **1038.528** | 12 A | 30.000 A | A rich. / On req. | 1,85 W |
| **1038.530** | 16 A | 30.000 A | A rich. / On req. | 2,61 W |
| **1038.531** | 20 A | 30.000 A | A rich. / On req. | 3,00 W |
| **1038.532** | 25 A | 30.000 A | A rich. / On req. | 4,00 W |

# 1038.700




RoHS

gPV IEC 60269-6

**Add a -1 to the end of the article for flanged version**
Aggiungere un -1 al termine dell'articolo per versione con flange

10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

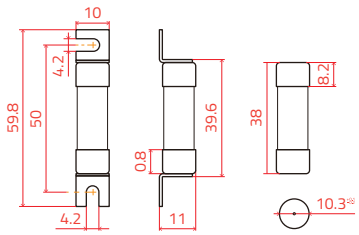
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | |
| **Voltage**<br>Tensione | 1000 Vdc | **Contacts material**<br>Materiale contatti | A rich. / On req. |

**TIME CURRENT /** TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 10 x In | 1.6x In | 1.9 x In |
|---|---|---|---|
| 1 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | VOLTAGE DROP<br>CADUTA DI TENSIONE | POW. DIS.<br>POT. DIS. |
|---|---|---|---|---|
| **1038.717** | 1 A | 30 kA | A rich. / On req. | 0,95 W |
| **1038.720** | 2 A | 30 kA | A rich. / On req. | 1,07 W |
| **1038.722** | 3 A | 30 kA | A rich. / On req. | 1,05 W |
| **1038.743** | 3,5 A | 30 kA | A rich. / On req. | 1,08 W |
| **1038.723** | 4 A | 30 kA | A rich. / On req. | 1,27 W |
| **1038.724** | 5 A | 30 kA | A rich. / On req. | 1,38 W |
| **1038.725** | 6 A | 30 kA | A rich. / On req. | 1,6 W |
| **1038.740** | 7 A | 30 kA | A rich. / On req. | 1,67 W |
| **1038.726** | 8 A | 30 kA | A rich. / On req. | 1,75 W |
| **1038.727** | 10 A | 30 kA | A rich. / On req. | 2,1 W |
| **1038.728** | 12 A | 30 kA | A rich. / On req. | 2,1 W |
| **1038.741** | 13 A | 30 kA | A rich. / On req. | 2,2 W |
| **1038.742** | 14 A | 30 kA | A rich. / On req. | 2,43 W |
| **1038.729** | 15 A | 30 kA | A rich. / On req. | 2,3 W |
| **1038.730** | 16 A | 30 kA | A rich. / On req. | 2,4 W |
| **1038.731** | 20 A | 30 kA | A rich. / On req. | 2,9 W |
| **1038.732** | 25 A | 30 kA | A rich. / On req. | 3,45 W |

# 1038.900




gR | IEC 60269 - 4

**Add a -1 to the end of the article for flanged version**
Aggiungere un -1 al termine dell'articolo per versione con flange

10 pz. [std. packaging ~ conf. standard]
100 pz. [ind. packaging ~ conf. industriale]

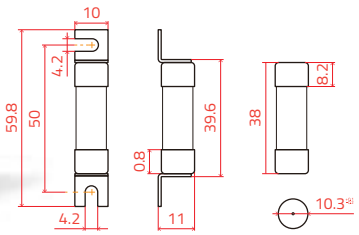
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | ☑ |
| **Voltage**<br>Tensione | 900 Vdc | **Contacts material**<br>Materiale contatti | A rich. / On req. |

**TIME CURRENT /** TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 1.0 x In | 1.6 x In | 1.9 x In |
|---|---|---|---|
| 2 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | VOLTAGE DROP<br>CADUTA DI TENSIONE | POW. DIS.<br>POT. DIS. |
|---|---|---|---|---|
| **1038.920** | 2 A | 30.000 A | A rich. / On req. | 1,1 W |
| **1038.923** | 4 A | 30.000 A | A rich. / On req. | 1,3 W |
| **1038.925** | 6 A | 30.000 A | A rich. / On req. | 1,7 W |
| **1038.926** | 8 A | 30.000 A | A rich. / On req. | 1,62 W |
| **1038.927** | 10 A | 30.000 A | A rich. / On req. | 2,44 W |
| **1038.928** | 12 A | 30.000 A | A rich. / On req. | 1,85 W |
| **1038.930** | 16 A | 30.000 A | A rich. / On req. | 2,61 W |
| **1038.931** | 20 A | 30.000 A | A rich. / On req. | 3,00 W |
| **1038.932** | 25 A | 30.000 A | A rich. / On req. | 4,00 W |

# UL 1038.700




gPV | UL 2579

**Add a -1 to the end of the article for flanged version**
Aggiungere un -1 al termine dell'articolo per versione con flange

10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

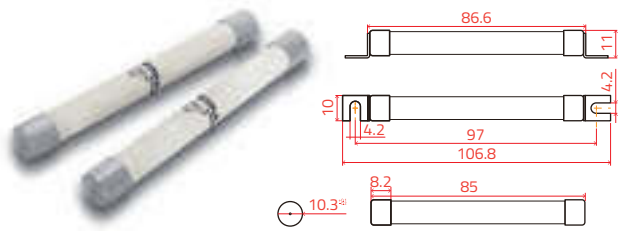
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | ☑ |
| **Voltage**<br>Tensione | 1000 Vdc | **Contacts material**<br>Materiale contatti | A rich. / On req. |

**TIME CURRENT /** TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 1.0 x In | 1.6 x In | 1.9 x In |
|---|---|---|---|
| 1 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. |
|---|---|---|---|---|---|
| **UL1038.717** | 1 A | 30 kA | A rich. / On req. | 1 W | 0.8 $A^2s$ |
| **UL1038.720** | 2 A | 30 kA | A rich. / On req. | 1,25 W | 1.3 $A^2s$ |
| **UL1038.722** | 3 A | 30 kA | A rich. / On req. | 1,3 W | 2.6 $A^2s$ |
| **UL1038.743** | 3,5 A | 30 kA | A rich. / On req. | 1,16 W | 3 $A^2s$ |
| **UL1038.723** | 4 A | 30 kA | A rich. / On req. | 1,25 W | 4 $A^2s$ |
| **UL1038.724** | 5 A | 30 kA | A rich. / On req. | 1,49 W | 7.4 $A^2s$ |
| **UL1038.725** | 6 A | 30 kA | A rich. / On req. | 1,65 W | 10 $A^2s$ |
| **UL1038.740** | 7 A | 30 kA | A rich. / On req. | 1,92 W | 13 $A^2s$ |
| **UL1038.726** | 8 A | 30 kA | A rich. / On req. | 2 W | 17 $A^2s$ |
| **UL1038.727** | 10 A | 30 kA | A rich. / On req. | 2,3 W | 21 $A^2s$ |
| **UL1038.728** | 12 A | 30 kA | A rich. / On req. | 2,2 W | 28 $A^2s$ |
| **UL1038.741** | 13 A | 30 kA | A rich. / On req. | 2,3 W | 30 $A^2s$ |
| **UL1038.742** | 14 A | 30 kA | A rich. / On req. | 2,5 W | 31 $A^2s$ |
| **UL1038.729** | 15 A | 30 kA | A rich. / On req. | 2,4 W | 33 $A^2s$ |
| **UL1038.730** | 16 A | 30 kA | A rich. / On req. | 2,6 W | 35 $A^2s$ |
| **UL1038.731** | 20 A | 30 kA | A rich. / On req. | 3 W | 50 $A^2s$ |
| **UL1038.732** | 25 A | 30 kA | A rich. / On req. | 4 W | 75 $A^2s$ |

## 1.085.100




RoHS

IEC 60269-4

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10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

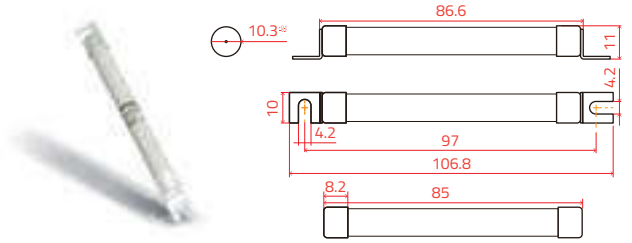
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | |
| **Voltage**<br>Tensione | 1200 Vdc L/R=1ms | **Contacts material**<br>Materiale contatti | A rich. / On req. |

### TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 1.0 x In | 1.6 x In | 1.9 x In |
|---|---|---|---|
| 2 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. |
|---|---|---|---|---|---|
| **1085.120** | 2 A | 30 kA | A rich. / On req. | 2,74 W | 1.6 $A^2s$ |
| **1085.123** | 4 A | 30 kA | A rich. / On req. | 2,96 W | 12.5 $A^2s$ |
| **1085.125** | 6 A | 30 kA | A rich. / On req. | 3,2 W | 21 $A^2s$ |
| **1085.126** | 8 A | 30 kA | A rich. / On req. | 4,19 W | 22 $A^2s$ |
| **1085.127** | 10 A | 30 kA | A rich. / On req. | 4,20 W | 53 $A^2s$ |
| **1085.128** | 12 A | 30 kA | A rich. / On req. | 3,47 W | 41 $A^2s$ |
| **1085.130** | 16 A | 30 kA | A rich. / On req. | 3,65 W | 141 $A^2s$ |
| **1085.131** | 20 A | 30 kA | A rich. / On req. | 3,85 W | 212 $A^2s$ |
| **1085.132** | 25 A | 30 kA | A rich. / On req. | 5 W | 273 $A^2s$ |

## 1.085.500




RoHS

gPV IEC 60269-6 If=1.45In

**Add a -1 to the end of the article for flanged version**
Aggiungere un -1 al termine dell'articolo per versione con flange

10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | |
| **Voltage**<br>Tensione | 1500 Vdc L/R=1ms | **Contacts material**<br>Materiale contatti | A rich. / On req. |

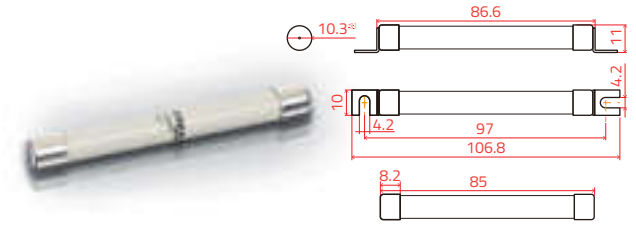
### TIME CURRENT / TEMPI DI FUSIONE

| RATED CURRENT<br>CORRENTE NOMINALE | 1.0 x In | 1.6 x In | 1.9 x In |
|---|---|---|---|
| 2 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. |
|---|---|---|---|---|---|
| **1085.520** | 2 A | 30 kA | A rich. / On req. | 2,6 W | 1.7 $A^2s$ |
| **1085.523** | 4 A | 30 kA | A rich. / On req. | 2,8 W | 8 $A^2s$ |
| **1085.524** | 5 A | 30 kA | A rich. / On req. | 3,1 W | 11 $A^2s$ |
| **1085.525** | 6 A | 30 kA | A rich. / On req. | 3,1 W | 23 $A^2s$ |
| **1085.526** | 8 A | 30 kA | A rich. / On req. | 4,1 W | 24 $A^2s$ |
| **1085.527** | 10 A | 30 kA | A rich. / On req. | 3,47 W | 58 $A^2s$ |
| **1085.528** | 12 A | 30 kA | A rich. / On req. | 3,51 W | 41 $A^2s$ |
| **1085.529** | 15 A | 30 kA | A rich. / On req. | 3,55 W | 54 $A^2s$ |
| **1085.530**[1] | 16 A | 30 kA | A rich. / On req. | 3,65 W | 160 $A^2s$ |
| **1085.531**[1] | 20 A | 30 kA | A rich. / On req. | 3,85 W | 240 $A^2s$ |
| **1085.532** | 25 A | 30 kA | A rich. / On req. | 4,9 W | 310 $A^2s$ |

[1] Voltage: 1200 Vdc
Tensione: 1200 Vdc

# UL 1.085.500




gPV | UL 2579 If=1.35In

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Aggiungere un -1 al termine dell'articolo per versione con flange

10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

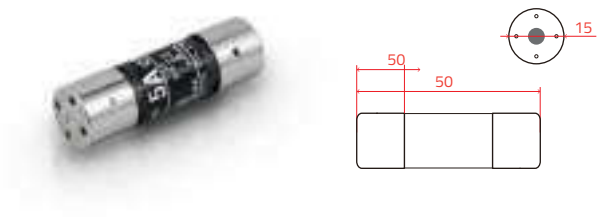
| | | | |
|---|---|---|---|
| **Body**<br>Corpo | Ceramic<br>Ceramica | **Extinguishing agent**<br>Polvere spegniarco | |
| **Voltage**<br>Tensione | 1500 Vdc L/R=1ms | **Contacts material**<br>Materiale contatti | A rich. / On req. |
| | | **Contacts finishing**<br>Finitura contatti | A rich. / On req. |

**TIME CURRENT / TEMPI DI FUSIONE**

| RATED CURRENT<br>CORRENTE NOMINALE | 10 x In | 1.6 x In | 1.9 x In |
|---|---|---|---|
| 2 A ~ 25 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

| CODE | I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. | MELTING RATING<br>FUSIONE NOM. |
|---|---|---|---|---|---|
| UL1085520 | 2 A | 30 kA | A rich. / On req. | 2,72 W | 1.6 $A^2s$ |
| UL1085523 | 4 A | 30 kA | A rich. / On req. | 2,96 W | 7 $A^2s$ |
| UL1085524 | 5 A | 30 kA | A rich. / On req. | 3,1 W | 11 $A^2s$ |
| UL1085525 | 6 A | 30 kA | A rich. / On req. | 3,2 W | 21 $A^2s$ |
| UL1085526 | 8 A | 30 kA | A rich. / On req. | 4,19 W | 22 $A^2s$ |
| UL1085527 | 10 A | 30 kA | A rich. / On req. | 4,2 W | 53 $A^2s$ |
| UL1085528 | 12 A | 30 kA | A rich. / On req. | 3,47 W | 41 $A^2s$ |
| UL1085529 | 15 A | 30 kA | A rich. / On req. | 3,55 W | 49 $A^2s$ |
| UL1085530 | 16 A | 30 kA | A rich. / On req. | 3,65 W | 141 $A^2s$ |
| UL1085531 | 20 A | 30 kA | A rich. / On req. | 3,85 W | 212 $A^2s$ |
| UL1085532 | 25 A | 30 kA | A rich. / On req. | 5 W | 273 $A^2s$ |

# F-7170




B

10 pz. [std. packaging ~ conf. standard]
500 pz. [ind. packaging ~ conf. industriale]

| | | | |
|---|---|---|---|
| **Body**<br>Corpo | PBT (UL 94V-0) | **Extinguishing agent**<br>Polvere spegniarco | |
| **Voltage**<br>Tensione | 250 V | **Contacts material**<br>Materiale contatti | Sn / Cu |

**TIME CURRENT / TEMPI DI FUSIONE**

| RATED CURRENT<br>CORRENTE NOMINALE | 160 % | 200 % |
|---|---|---|
| 5 A ~ 30 A | 1 h | 120 s |

| I. RATING<br>I. NOM | BREAKING CAPACITY<br>CAPACITÀ DI ROTTURA | V.D.<br>C.D.T. | POW. DIS.<br>POT. DIS. |
|---|---|---|---|
| 5 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |
| 10 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |
| 15 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |
| 20 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |
| 30 A | A rich. / On req. | A rich. / On req. | A rich. / On req. |

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