

PTC-RÜCKSTELLENDEN SICHERUNGEN

PTC-RESETTABLE FUSES



Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|-------------|---|----------------------|--|--------------|
| Spannung <i>Voltage</i> | 32 V | Haltestrom <i>Holding current</i> | 500 mA – 10 A | Max. Strom <i>Max. current</i> | 100 A |
|-----------------------------------|-------------|---|----------------------|--|--------------|



| | |
|--|---|
| <i>Norm / Standard:</i> | Werknorm / <i>Factory standard</i> |
| <i>Anschluss / Connection:</i> | Kupfer verzinkt / <i>Tin-plated copper</i> |
| <i>Beschichtung / Coating:</i> | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> Flame retardant epoxy (UL-94V-0) |
| <i>Betriebstemperatur / Operating temperature:</i> | -40°C bis / <i>to</i> 125°C (De-rating beachten / <i>Consider De-rating</i>) |
| <i>Lötbarkeit / Solderability:</i> | MIL-STD-202, Method 208E |
| <i>Verpackungsmöglichkeiten / Packing options:</i> | Auf Anfrage / <i>On request</i> |

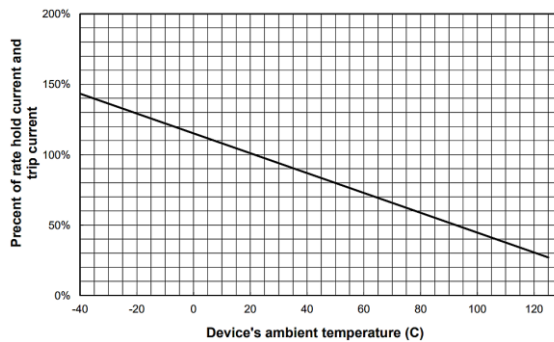
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FHE050-32F | 500 mA | 32 | 1,0 | 3,0 | 100 | 0,9 | 0,3500 | 1,1000 |
| FHE070-32F | 700 mA | 32 | 1,4 | 3,2 | 100 | 1,4 | 0,2300 | 0,8000 |
| FHE100-32F | 1,0 A | 32 | 1,9 | 6,2 | 100 | 1,4 | 0,1500 | 0,4300 |
| FHE200-32F | 2,0 A | 32 | 4,0 | 5,5 | 100 | 2,2 | 0,0650 | 0,2500 |
| FHE300-32F | 3,0 A | 32 | 6,0 | 5,0 | 100 | 3,2 | 0,0350 | 0,1100 |
| FHE500-32F | 5,0 A | 32 | 10,0 | 9,0 | 100 | 5,3 | 0,0150 | 0,0400 |
| FHE750-32F | 7,5 A | 32 | 15,0 | 13,0 | 100 | 6,5 | 0,0074 | 0,0230 |
| FHE1000-32F | 10,0 A | 32 | 20,0 | 15,0 | 100 | 7,0 | 0,0060 | 0,0160 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



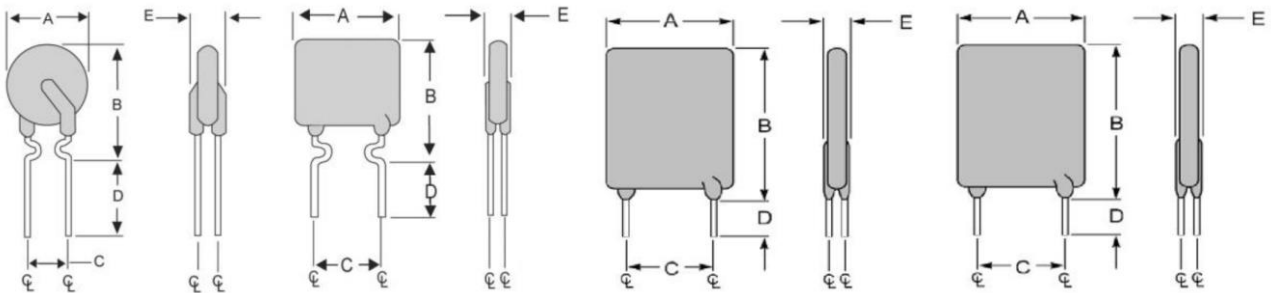
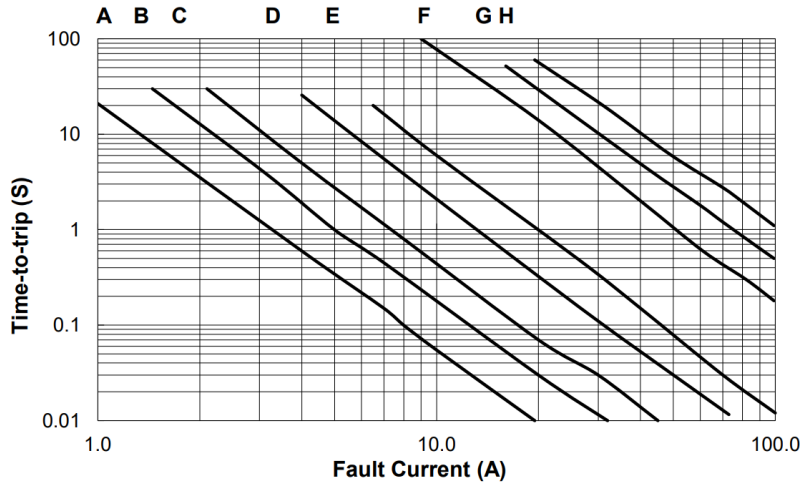
Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|----------------------------|-------------|--------------------------------------|----------------------|-----------------------------------|--------------|
| Spannung Voltage | 32 V | Haltestrom Holding current | 500 mA – 10 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------|--------------------------------------|----------------------|-----------------------------------|--------------|

Auslösezeit / Time to trip (@ 23°C):

- A = FHE050-32F E = FHE300-32F
- B = FHE070-32F F = FHE500-32F
- C = FHE100-32F G = FHE750-32F
- D = FHE200-32F H = FHE1000-32F



FHE050-32F, FHE100-32F
Anschlussgröße / Lead size:
24 AWG (= Ø 0,51 mm)

FHE070-32F
Anschlussgröße / Lead size:
24 AWG (= Ø 0,51 mm)

FHE200-32F bis / to FHE750-32F
Anschlussgröße / Lead size:
20 AWG (= Ø 0,81 mm)

FHE1000-32F
Anschlussgröße / Lead size:
18 AWG (= Ø 1 mm)

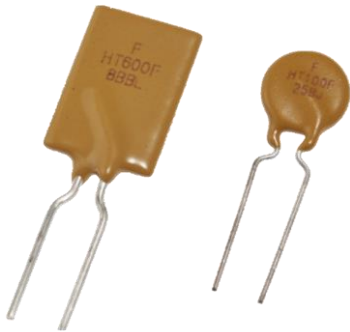
Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E |
|-------------|------|------|------|-----|-----|
| FHE050-32F | 7,4 | 12,7 | 5,1 | 7,6 | 3,3 |
| FHE070-32F | 6,9 | 10,8 | 5,1 | 7,6 | 3,0 |
| FHE100-32F | 9,7 | 13,6 | 5,1 | 7,6 | 3,0 |
| FHE200-32F | 9,5 | 13,5 | 5,1 | 7,6 | 3,0 |
| FHE300-32F | 10,2 | 15,5 | 5,1 | 7,6 | 3,8 |
| FHE500-32F | 14,0 | 24,1 | 5,1 | 7,6 | 3,8 |
| FHE750-32F | 21,1 | 24,9 | 10,2 | 7,6 | 3,8 |
| FHE1000-32F | 23,5 | 27,9 | 10,2 | 7,6 | 4,0 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|--------------------|---|----------------------|--|-------------------|
| Spannung <i>Voltage</i> | 16 V / 30 V | Haltestrom <i>Holding current</i> | 500 mA – 15 A | Max. Strom <i>Max. current</i> | 40 - 100 A |
|-----------------------------------|--------------------|---|----------------------|--|-------------------|



| | |
|---|---|
| Norm / <i>Standard</i> : | Werknorm / <i>Factory standard</i> |
| Anschluss / <i>Connection</i> : | Kupfer verzinkt / <i>Tin-plated copper</i> |
| Beschichtung / <i>Coating</i> : | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> Flame retardant epoxy (UL-94V-0) |
| Betriebstemperatur / <i>Operating temperature</i> : | -40°C bis / <i>to</i> 125°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / <i>Solderability</i> : | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / <i>Packing options</i> : | Auf Anfrage / <i>On request</i> |

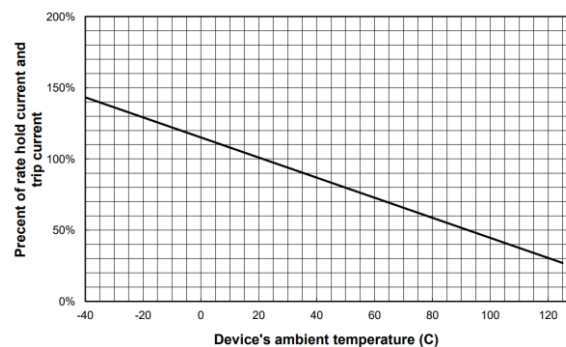
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------|----------------|-----------------------|-----------------------|---|-------------------------|-----------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FHT050-30F | 500 mA | 30 | 0,9 | 2,5 | 40 | 0,9 | 0,4800 | 1,1000 |
| FHT070-30F | 700 mA | 30 | 1,4 | 3,2 | 40 | 1,4 | 0,3000 | 0,8000 |
| FHT100-30F | 1,0 A | 30 | 1,8 | 5,2 | 40 | 1,4 | 0,1800 | 0,4300 |
| FHT200-16F | 2,0 A | 16 | 3,8 | 3,0 | 100 | 1,4 | 0,0450 | 0,1100 |
| FHT300-16F | 3,0 A | 16 | 6,0 | 5,0 | 100 | 3,0 | 0,0330 | 0,0790 |
| FHT400-16F | 4,0 A | 16 | 7,0 | 5,0 | 100 | 3,3 | 0,0240 | 0,0600 |
| FHT450-16F | 4,5 A | 16 | 7,8 | 3,0 | 100 | 3,6 | 0,0220 | 0,0540 |
| FHT550-16F | 5,5 A | 16 | 10,0 | 6,0 | 100 | 3,5 | 0,0150 | 0,0370 |
| FHT600-16F | 6,0 A | 16 | 10,8 | 5,0 | 100 | 4,1 | 0,0130 | 0,0320 |
| FHT650-16F | 6,5 A | 16 | 12,0 | 5,5 | 100 | 4,3 | 0,0110 | 0,0260 |
| FHT700-16F | 7,0 A | 16 | 13,0 | 7,0 | 100 | 4,0 | 0,0100 | 0,0250 |
| FHT750-16F | 7,5 A | 16 | 13,1 | 7,0 | 100 | 4,5 | 0,0094 | 0,0220 |
| FHT800-16F | 8,0 A | 16 | 15,0 | 8,0 | 100 | 4,2 | 0,0080 | 0,0200 |
| FHT900-16F | 9,0 A | 16 | 16,5 | 10,0 | 100 | 5,0 | 0,0074 | 0,0170 |
| FHT1000-16F | 10,0 A | 16 | 18,5 | 9,0 | 100 | 5,3 | 0,0062 | 0,0150 |
| FHT1100-16F | 11,0 A | 16 | 20,0 | 11,0 | 100 | 5,5 | 0,0055 | 0,0130 |
| FHT1300-16F | 13,0 A | 16 | 24,0 | 13,0 | 100 | 6,9 | 0,0041 | 0,0100 |
| FHT1400-16F | 14,0 A | 16 | 27,0 | 13,0 | 100 | 6,9 | 0,0030 | 0,0090 |
| FHT1500-16F | 15,0 A | 16 | 28,0 | 20,0 | 100 | 7,0 | 0,0032 | 0,0092 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



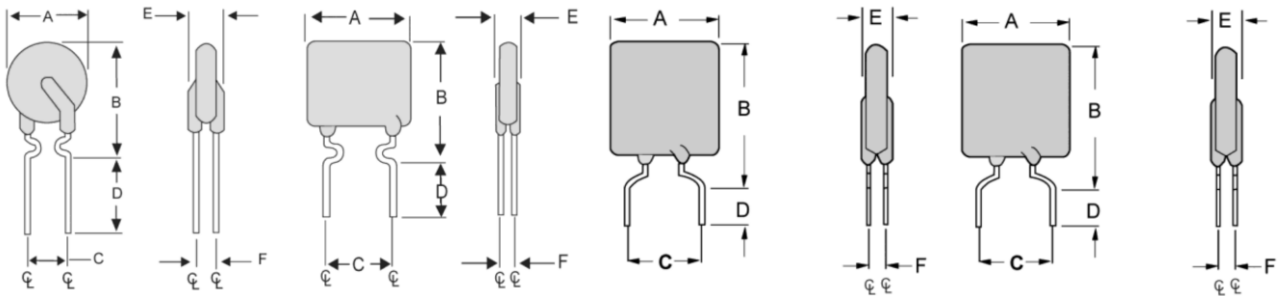
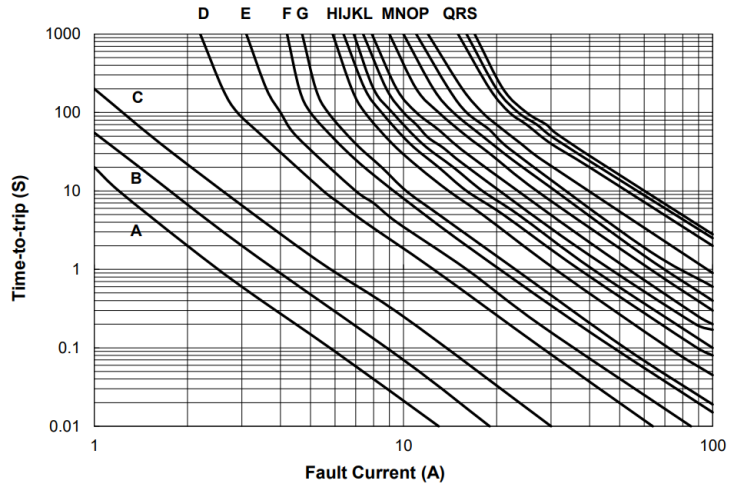
Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|--------------------|---|----------------------|--|-------------------|
| Spannung <i>Voltage</i> | 16 V / 30 V | Haltestrom <i>Holding current</i> | 500 mA – 15 A | Max. Strom <i>Max. current</i> | 40 - 100 A |
|-----------------------------------|--------------------|---|----------------------|--|-------------------|

Auslösezeit / Time to trip (@ 23°C):

- | | |
|----------------|-----------------|
| A = FHT050-30F | K = FHT700-16F |
| B = FHT070-30F | L = FHT750-16F |
| C = FHT100-30F | M = FHT800-16F |
| D = FHT200-16F | N = FHT900-16F |
| E = FHT300-16F | O = FHT1000-16F |
| F = FHT400-16F | P = FHT1100-16F |
| G = FHT450-16F | Q = FHT1300-16F |
| H = FHT550-16F | R = FHT1400-16F |
| I = FHT600-16F | S = FHT1500-16F |
| J = FHT650-16F | |



FHT050-30F, -100-30F, -200-16F
Anschlussgröße / *Lead size:*
24 AWG (= Ø 0,51 mm)

FHT070-30F
Anschlussgröße / *Lead size:*
24 AWG (= Ø 0,51 mm)

FHT300-16F bis / to FHT1100-16F
Anschlussgröße / *Lead size:*
20 AWG (= Ø 0,81 mm)

FHT1300-16F bis / to FHT1500-16F
Anschlussgröße / *Lead size:*
18 AWG (= Ø 1 mm)

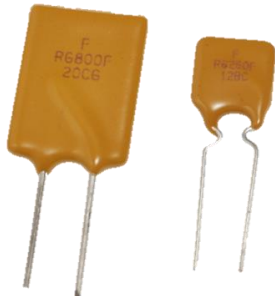
Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|-------------|------|------|------|-----|-----|-----|
| FHT050-30F | 7,4 | 12,7 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT070-30F | 6,9 | 10,8 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT100-30F | 9,7 | 13,6 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT200-16F | 9,4 | 14,4 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT300-16F | 8,8 | 13,8 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT400-16F | 10,0 | 15,0 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT450-16F | 10,4 | 15,6 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT550-16F | 11,2 | 18,9 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT600-16F | 11,2 | 21,0 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT650-16F | 12,7 | 22,2 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT700-16F | 14,0 | 21,9 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT750-16F | 14,0 | 23,5 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT800-16F | 16,5 | 22,5 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT900-16F | 16,5 | 25,7 | 5,1 | 7,6 | 3,0 | 1,2 |
| FHT1000-16F | 17,5 | 26,5 | 10,2 | 7,6 | 3,0 | 1,2 |
| FHT1100-16F | 21,0 | 26,1 | 10,2 | 7,6 | 3,0 | 1,2 |
| FHT1300-16F | 23,5 | 28,7 | 10,2 | 7,6 | 3,6 | 1,4 |
| FHT1400-16F | 23,5 | 28,7 | 10,2 | 7,6 | 3,6 | 1,4 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|-------------|---|---------------------|--|--------------|
| Spannung <i>Voltage</i> | 16 V | Haltestrom <i>Holding current</i> | 2,5 A – 14 A | Max. Strom <i>Max. current</i> | 100 A |
|-----------------------------------|-------------|---|---------------------|--|--------------|



| | |
|--|--|
| Norm / Standard: | Werknorm / <i>Factory standard</i> |
| Anschluss / Connection: | Kupfer verzinkt / <i>Tin-plated copper</i> |
| Beschichtung / Coating: | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> <i>Flame retardant epoxy (UL-94V-0)</i> |
| Betriebstemperatur / Operating temperature: | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / Solderability: | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / Packing options: | Auf Anfrage / <i>On request</i> |

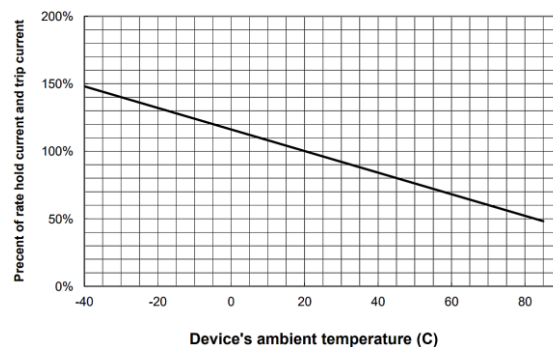
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRG250-16F | 2,5 A | 16 | 4,7 | 5,0 | 100 | 1,0 | 0,022 | 0,053 |
| FRG300-16F | 3,0 A | 16 | 5,1 | 2,0 | 100 | 2,3 | 0,034 | 0,105 |
| FRG400-16F | 4,0 A | 16 | 6,8 | 3,5 | 100 | 2,4 | 0,020 | 0,063 |
| FRG500-16F | 5,0 A | 16 | 8,5 | 3,6 | 100 | 2,6 | 0,014 | 0,044 |
| FRG600-16F | 6,0 A | 16 | 10,2 | 5,8 | 100 | 2,8 | 0,009 | 0,033 |
| FRG700-16F | 7,0 A | 16 | 11,9 | 8,0 | 100 | 3,0 | 0,006 | 0,021 |
| FRG800-16F | 8,0 A | 16 | 13,6 | 9,0 | 100 | 3,0 | 0,005 | 0,018 |
| FRG900-16F | 9,0 A | 16 | 15,3 | 12,0 | 100 | 3,3 | 0,004 | 0,015 |
| FRG1000-16F | 10,0 A | 16 | 17,0 | 12,5 | 100 | 3,3 | 0,003 | 0,012 |
| FRG1100-16F | 11,0 A | 16 | 18,7 | 13,5 | 100 | 3,7 | 0,003 | 0,010 |
| FRG1200-16F | 12,0 A | 16 | 20,4 | 16,0 | 100 | 4,2 | 0,002 | 0,009 |
| FRG1400-16F | 14,0 A | 16 | 23,8 | 20,0 | 100 | 4,6 | 0,002 | 0,008 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



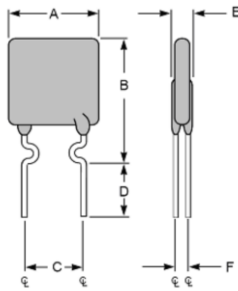
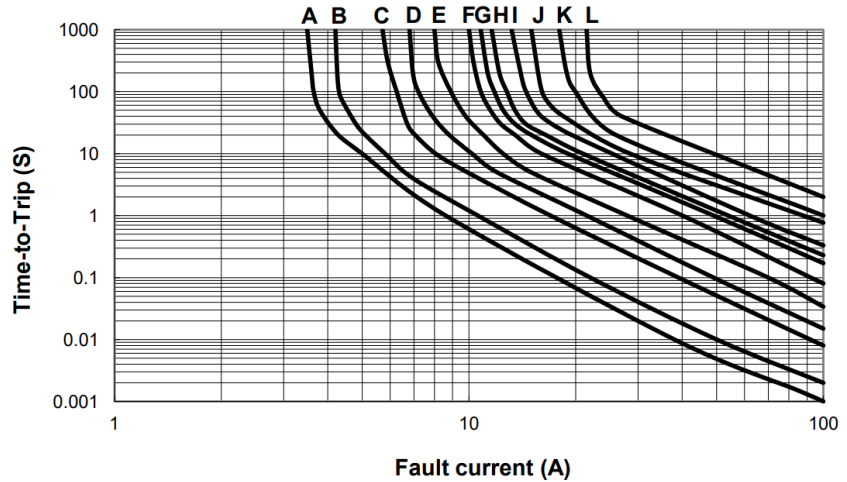
Radial leaded PPTC Rücksetzbar / *Resettable*



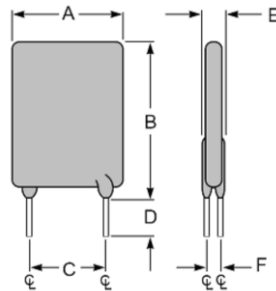
| | | | | | |
|----------------------------|-------------|--------------------------------------|---------------------|-----------------------------------|--------------|
| Spannung Voltage | 16 V | Haltestrom Holding current | 2,5 A – 14 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------|--------------------------------------|---------------------|-----------------------------------|--------------|

Auslösezeit / Time to trip (@ 23°C):

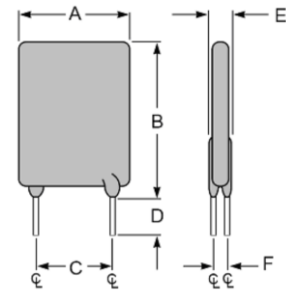
- A = FRG250-16F G = FRG800-16F
- B = FRG300-16F H = FRG900-16F
- C = FRG400-16F I = FRG1000-16F
- D = FRG500-16F J = FRG1100-16F
- E = FRG600-16F K = FRG1200-16F
- F = FRG700-16F L = FRG1400-16F



FRG250-16F
Anschlussgröße / Lead size:
24 AWG (= Ø 0,51 mm)



FRG300-16F bis / to FRG1100-16F
Anschlussgröße / Lead size:
20 AWG (= Ø 0,81 mm)



FRG1200-16F bis / to FRG1400-16F
Anschlussgröße / Lead size:
18 AWG (= Ø 1 mm)

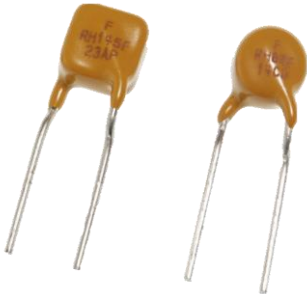
Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|-------------|------|------|------|-----|-----|-----|
| FRG250-16F | 8,9 | 12,8 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG300-16F | 7,1 | 11,0 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG400-16F | 8,9 | 12,8 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG500-16F | 10,4 | 14,3 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG600-16F | 10,7 | 17,1 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG700-16F | 11,2 | 19,7 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG800-16F | 12,7 | 20,9 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG900-16F | 14,0 | 21,7 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG1000-16F | 16,5 | 24,1 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG1100-16F | 17,5 | 26,0 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRG1200-16F | 17,5 | 28,0 | 10,2 | 7,6 | 3,6 | 1,4 |
| FRG1400-16F | 27,9 | 27,9 | 10,2 | 7,6 | 3,6 | 1,4 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|---------------------|---|-----------------------|--|-----------------|
| Spannung <i>Voltage</i> | 60 V – 250 V | Haltestrom <i>Holding current</i> | 80 mA – 400 mA | Max. Strom <i>Max. current</i> | 3 – 10 A |
|-----------------------------------|---------------------|---|-----------------------|--|-----------------|



| | |
|--|--|
| Norm / Standard: | Werknorm / <i>Factory standard</i> |
| Anschluss / Connection: | Kupfer verzinkt / <i>Tin-plated copper</i> |
| Beschichtung / Coating: | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> <i>Flame retardant epoxy (UL-94V-0)</i> |
| Betriebstemperatur / Operating temperature: | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / Solderability: | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / Packing options: | Auf Anfrage / <i>On request</i> |

Bemessungswerte / Ratings (@ 23°C):

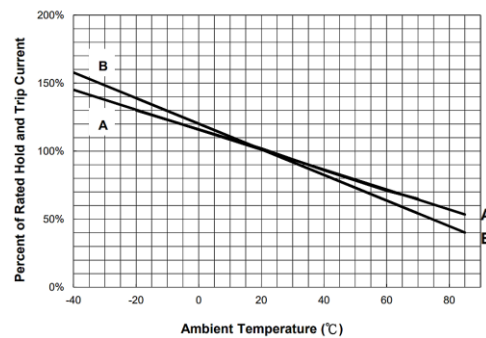
| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} | | I _{max} [A] | P _d [W] | R [Ω] | |
|--------------|----------------|-----------------------|-----------------------|-----------------------|-------|-------------------------|-----------------------|------------------|------------------|
| | | | | I [A] | t [s] | | | R _{Min} | R _{max} |
| FRH080-250VF | 80 mA | 100 | 0,16 | 0,35 | 4,0 | 3,0 | 1,0 | 14,0 | 33,00 |
| FRH110-250VF | 110 mA | 100 | 0,22 | 1,00 | 2,0 | 3,0 | 1,0 | 5,00 | 16,00 |
| FRH120-250VF | 120 mA | 100 | 0,24 | 1,00 | 2,0 | 3,0 | 1,0 | 4,00 | 16,00 |
| FRH145-250VF | 150 mA | 100 | 0,29 | 1,00 | 2,5 | 3,0 | 1,0 | 3,00 | 12,00 |
| FRH180-250XF | 180 mA | 100 | 0,65 | 3,00 | 2,0 | 10,0 | 1,0 | 0,80 | 4,00 |
| FRH150-600MF | 150 mA | 250 | 0,30 | 1,00 | 4,0 | 3,0 | 1,0 | 6,00 | 17,00 |
| FRH160-600MF | 160 mA | 250 | 0,32 | 1,00 | 7,0 | 3,0 | 1,0 | 4,00 | 16,00 |
| FRH160-600VF | 160 mA | 250 | 0,32 | 1,00 | 7,0 | 3,0 | 1,0 | 4,00 | 18,00 |
| FRH200-600VF | 200 mA | 250 | 0,40 | 1,00 | 12,0 | 3,0 | 1,0 | 4,00 | 13,50 |
| FRH250-600VF | 250 mA | 250 | 0,86 | 3,00 | 1,0 | 3,0 | 1,0 | 1,00 | 7,00 |
| FRH400-600F | 400 mA | 60 | 1,00 | 3,00 | 4,0 | 3,0 | 1,0 | 0,95 | 1,90 |

FRH200-600VF bis / *to* FRH400-600F ausschließlich / *only* UL, C-UL Prüfzeichen / *approval*

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



- A = FRH180-250XF
- B = Alle anderen / *All others*

Radial leaded PPTC Rücksetzbar / *Resettable*

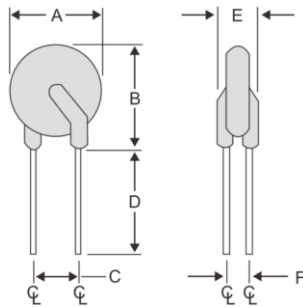
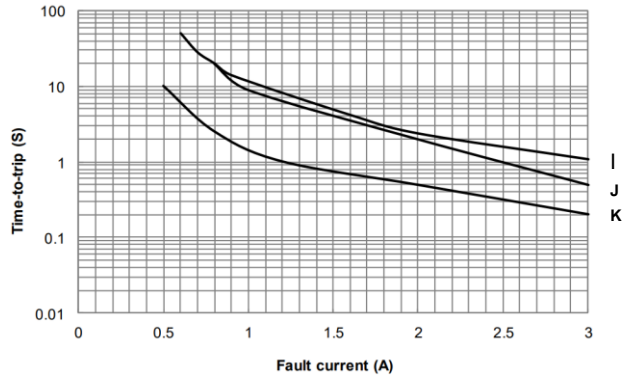
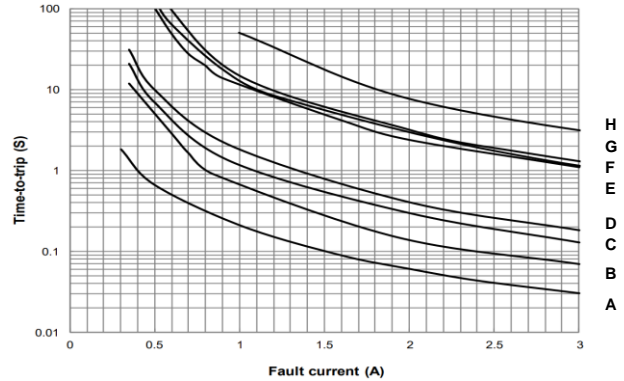


| | | | | | |
|-----------------------------------|---------------------|---|-----------------------|--|-----------------|
| Spannung <i>Voltage</i> | 60 V – 250 V | Haltestrom <i>Holding current</i> | 80 mA – 400 mA | Max. Strom <i>Max. current</i> | 3 – 10 A |
|-----------------------------------|---------------------|---|-----------------------|--|-----------------|

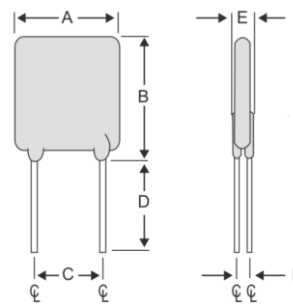
Auslösezeit / Time to trip (@ 23°C):

- A = FRH080-250VF E = FRH160-600VF
- B = FRH110-250VF F = FRH200-600VF
- C = FRH120-250VF G = FRH250-600VF
- D = FRH145-250VF H = FRH400-600F

- I = FRH160-600MF K = FRH150-600MF
- J = FRH180-250XF



FRH080-250VF, FRH110-250VF, FRH180-250XF
Anschlussgröße / *Lead size:*
22 AWG (= Ø 0,65 mm)



FRH120-250VF, FRH145-250VF, FRH150-600MF bis / to FRH400-600F
Anschlussgröße / *Lead size:*
22 AWG (= Ø 0,65 mm)

Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E |
|--------------|------|------|-----|-----|-----|
| FRH080-250VF | 5,8 | 9,6 | 5,0 | 4,7 | 4,6 |
| FRH110-250VF | 6,8 | 9,9 | 5,0 | 4,7 | 4,6 |
| FRH120-250VF | 6,5 | 11,0 | 5,0 | 4,7 | 4,6 |
| FRH145-250VF | 6,5 | 11,0 | 5,0 | 4,7 | 4,6 |
| FRH180-250XF | 9,0 | 12,0 | 5,0 | 4,7 | 3,8 |
| FRH150-600MF | 9,0 | 12,5 | 5,0 | 4,7 | 4,6 |
| FRH160-600MF | 9,0 | 12,5 | 5,0 | 4,7 | 4,6 |
| FRH160-600VF | 16,0 | 12,6 | 5,0 | 4,7 | 6,0 |
| FRH200-600VF | 12,0 | 14,0 | 5,0 | 4,7 | 6,0 |
| FRH250-600VF | 12,0 | 15,0 | 5,0 | 4,7 | 6,0 |
| FRH400-600F | 15,0 | 14,5 | 5,0 | 4,7 | 6,0 |

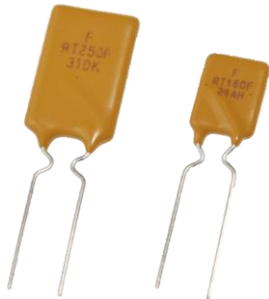
Radial leaded PPTC Rücksetzbar / *Resettable*



Spannung 36 V
Voltage

Haltestrom 500 mA – 2,5 A
Holding current

Max. Strom 40 A
Max. current



Norm / Standard:

Werknorm / *Factory standard*

Anschluss / Connection:

Kupfer verzinkt / *Tin-plated copper*

Beschichtung / Coating:

Isolierende Beschichtung:
Flammenhemmendes Epoxidharz (UL-94V-0) /
Insulating coating:
Flame retardant epoxy (UL-94V-0)

Betriebstemperatur / Operating temperature:

-40°C bis / *to* 85°C
(*De-rating beachten / Consider De-rating*)

Lötbarkeit / Solderability:

MIL-STD-202, Method 208E

Verpackungsmöglichkeiten / Packing options: Auf Anfrage / *On request*

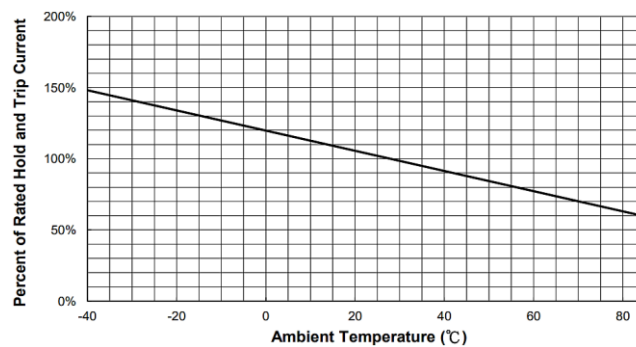
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRT050-33F | 500 mA | 36 | 1,00 | 5,0 | 40 | 0,67 | 0,140 | 0,448 |
| FRT075-33F | 750 mA | 36 | 1,50 | 4,0 | 40 | 0,71 | 0,115 | 0,368 |
| FRT090-33F | 900 mA | 36 | 1,80 | 3,5 | 40 | 0,74 | 0,090 | 0,288 |
| FRT120-33F | 1,20 A | 36 | 2,30 | 3,5 | 40 | 0,78 | 0,074 | 0,180 |
| FRT135-33F | 1,35 A | 36 | 2,50 | 4,5 | 40 | 0,84 | 0,059 | 0,143 |
| FRT160-33F | 1,60 A | 36 | 2,75 | 4,5 | 40 | 0,86 | 0,041 | 0,131 |
| FRT190-33F | 1,90 A | 36 | 3,00 | 3,5 | 40 | 0,90 | 0,045 | 0,092 |
| FRT220-33F | 2,20 A | 36 | 3,50 | 6,5 | 40 | 0,95 | 0,025 | 0,080 |
| FRT250-33F | 2,50 A | 36 | 4,00 | 8,0 | 40 | 0,99 | 0,020 | 0,064 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



Radial leaded PPTC Rücksetzbar / *Resettable*



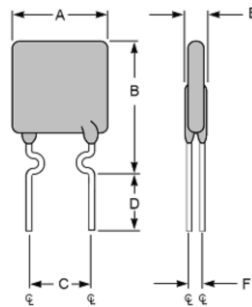
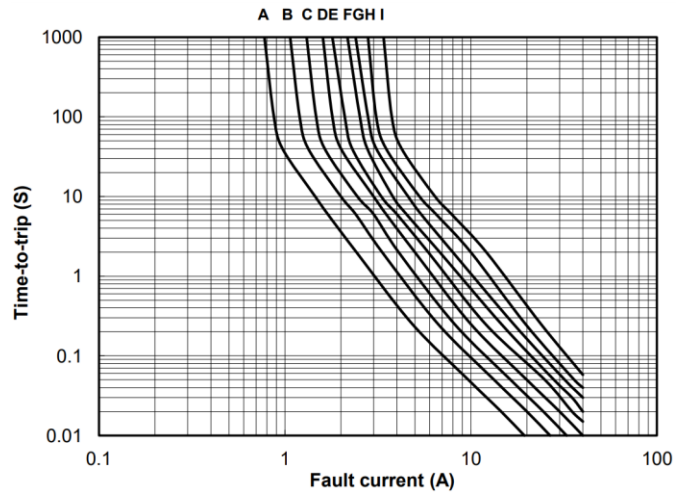
Spannung 36 V
Voltage

Haltestrom 500 mA – 2,5 A
Holding current

Max. Strom 40 A
Max. current

Auslösezeit / Time to trip (@ 23°C):

- | | |
|----------------|----------------|
| A = FRT050-33F | F = FRT160-33F |
| B = FRT075-33F | G = FRT190-33F |
| C = FRT090-33F | H = FRT220-33F |
| D = FRT120-33F | I = FRT250-33F |
| E = FRT135-33F | |



Anschlussgröße / Lead size: 24 AWG (= Ø 0,51 mm)

Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|------------|------|------|-----|-----|-----|-----|
| FRT050-33F | 7,4 | 12,2 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT075-33F | 7,4 | 12,2 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT090-33F | 7,4 | 12,2 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT120-33F | 7,4 | 12,2 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT135-33F | 7,4 | 14,2 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT160-33F | 7,4 | 14,0 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT190-33F | 9,0 | 13,5 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT220-33F | 10,0 | 17,0 | 5,1 | 7,6 | 3,0 | 1,1 |
| FRT250-33F | 10,0 | 19,5 | 5,1 | 7,6 | 3,0 | 1,1 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|-------------|---|---------------------|--|--------------|
| Spannung <i>Voltage</i> | 30 V | Haltestrom <i>Holding current</i> | 900 mA – 9 A | Max. Strom <i>Max. current</i> | 100 A |
|-----------------------------------|-------------|---|---------------------|--|--------------|



| | |
|---|---|
| Norm / <i>Standard</i> : | Werknorm / <i>Factory standard</i> |
| Anschluss / <i>Connection</i> : | Kupfer verzinkt / <i>Tin-plated copper</i> |
| Beschichtung / <i>Coating</i> : | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> Flame retardant epoxy (UL-94V-0) |
| Betriebstemperatur / <i>Operating temperature</i> : | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / <i>Solderability</i> : | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / <i>Packing options</i> : | Auf Anfrage / <i>On request</i> |

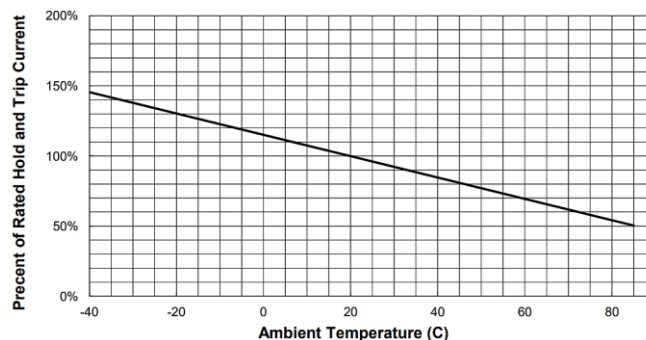
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRU090-30F | 900 mA | 30 | 1,80 | 5,9 | 100 | 0,6 | 0,070 | 0,220 |
| FRU110-30F | 1,10 A | 30 | 2,20 | 6,6 | 100 | 0,7 | 0,050 | 0,170 |
| FRU135-30F | 1,35 A | 30 | 2,70 | 7,3 | 100 | 0,8 | 0,040 | 0,130 |
| FRU160-30F | 1,60 A | 30 | 3,20 | 8,0 | 100 | 0,9 | 0,030 | 0,110 |
| FRU185-30F | 1,85 A | 30 | 3,70 | 8,7 | 100 | 1,0 | 0,030 | 0,090 |
| FRU250-30F | 2,50 A | 30 | 5,00 | 10,3 | 100 | 1,2 | 0,020 | 0,070 |
| FRU300-30F | 3,00 A | 30 | 6,00 | 10,8 | 100 | 2,0 | 0,020 | 0,080 |
| FRU400-30F | 4,00 A | 30 | 8,00 | 12,7 | 100 | 2,5 | 0,010 | 0,050 |
| FRU500-30F | 5,00 A | 30 | 10,00 | 14,5 | 100 | 3,0 | 0,010 | 0,050 |
| FRU600-30F | 6,00 A | 30 | 12,00 | 16,0 | 100 | 3,5 | 0,005 | 0,040 |
| FRU700-30F | 7,00 A | 30 | 14,00 | 17,5 | 100 | 3,8 | 0,005 | 0,030 |
| FRU800-30F | 8,00 A | 30 | 16,00 | 18,8 | 100 | 4,0 | 0,005 | 0,020 |
| FRU900-30F | 9,00 A | 30 | 18,00 | 20,0 | 100 | 4,2 | 0,005 | 0,020 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



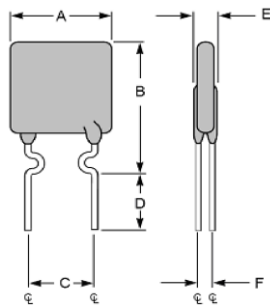
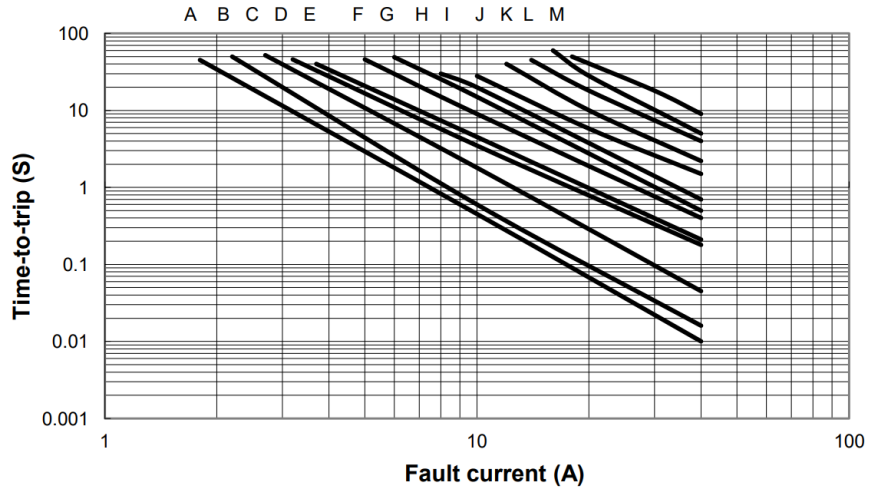
Radial leaded PPTC Rücksetzbar / *Resettable*



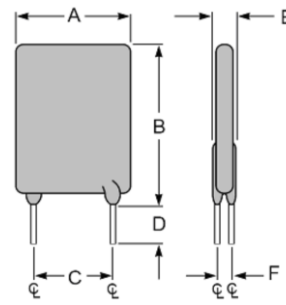
| | | | | | |
|-----------------------------------|-------------|---|---------------------|--|--------------|
| Spannung <i>Voltage</i> | 30 V | Haltestrom <i>Holding current</i> | 900 mA – 9 A | Max. Strom <i>Max. current</i> | 100 A |
|-----------------------------------|-------------|---|---------------------|--|--------------|

Auslösezeit / Time to trip (@ 23°C):

- A = FRU090-30F J = FRU600-30F
- B = FRU110-30F K = FRU700-30F
- C = FRU135-30F L = FRU800-30F
- D = FRU160-30F M = FRU900-30F
- E = FRU185-30F
- F = FRU250-30F
- G = FRU300-30F
- H = FRU400-30F
- I = FRU500-30F



FRU090-30F bis / to FRU250-30F
Anschlussgröße / *Lead size*: 24 AWG (= Ø 0,51 mm)



FRU300-30F bis / to FRU900-30F
Anschlussgröße / *Lead size*: 20 AWG (= Ø 0,81 mm)

Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|------------|------|------|------|-----|-----|-----|
| FRU090-30F | 7,4 | 12,2 | 5,1 | 7,6 | 3,0 | 0,9 |
| FRU110-30F | 7,4 | 14,2 | 5,1 | 7,6 | 3,0 | 0,9 |
| FRU135-30F | 8,9 | 13,5 | 5,1 | 7,6 | 3,0 | 0,9 |
| FRU160-30F | 8,9 | 15,2 | 5,1 | 7,6 | 3,0 | 0,9 |
| FRU185-30F | 10,2 | 15,7 | 5,1 | 7,6 | 3,0 | 0,9 |
| FRU250-30F | 11,4 | 18,3 | 5,1 | 7,6 | 3,0 | 0,9 |
| FRU300-30F | 11,4 | 17,3 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRU400-30F | 14,0 | 20,1 | 5,1 | 7,6 | 3,0 | 1,2 |
| FRU500-30F | 14,0 | 24,9 | 10,2 | 7,6 | 3,0 | 1,2 |
| FRU600-30F | 17,5 | 24,9 | 10,2 | 7,6 | 3,0 | 1,2 |
| FRU700-30F | 19,1 | 26,7 | 10,2 | 7,6 | 3,0 | 1,2 |
| FRU800-30F | 21,6 | 29,2 | 10,2 | 7,6 | 3,0 | 1,2 |
| FRU900-30F | 24,1 | 29,7 | 10,2 | 7,6 | 3,0 | 1,2 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|----------------------------|--------------|--------------------------------------|--------------------|-----------------------------------|-----------------|
| Spannung Voltage | 240 V | Haltestrom Holding current | 50 mA – 2 A | Max. Strom Max. current | 1 - 20 A |
|----------------------------|--------------|--------------------------------------|--------------------|-----------------------------------|-----------------|



| | |
|---|--|
| Norm / Standard: | Werknorm / Factory standard |
| Anschluss / Connection: | Kupfer verzinkt / Tin-plated copper |
| Beschichtung / Coating: | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / Insulating coating: Flame retardant epoxy (UL-94V-0) |
| Betriebstemperatur / Operating temperature: | -40°C bis / to 85°C (De-rating beachten / Consider De-rating) |
| Lötbarkeit / Solderability: | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / Packing options: | Auf Anfrage / On request |

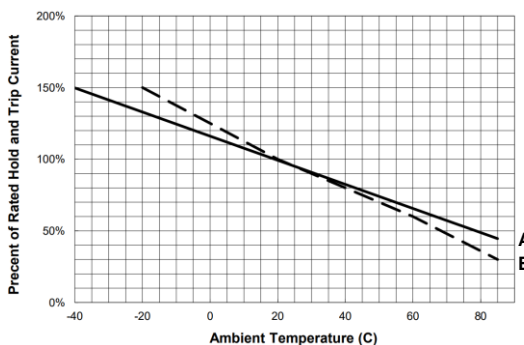
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRV005-240F | 50 mA | 240 | 0,12 | 15,0 | 1,0 | 0,70 | 18,50 | 65,00 |
| FRV008-240F | 80 mA | 240 | 0,19 | 15,0 | 1,2 | 0,80 | 7,40 | 26,00 |
| FRV012-240F | 120 mA | 240 | 0,30 | 15,0 | 1,2 | 1,00 | 3,00 | 12,00 |
| FRV016-240F | 160 mA | 240 | 0,37 | 15,0 | 2,0 | 1,40 | 2,50 | 7,80 |
| FRV025-240F | 250 mA | 240 | 0,56 | 18,5 | 3,5 | 1,50 | 1,30 | 3,80 |
| FRV033-240F | 330 mA | 240 | 0,74 | 21,0 | 4,5 | 1,70 | 0,83 | 2,60 |
| FRV040-240F | 400 mA | 240 | 0,90 | 24,0 | 5,5 | 2,00 | 0,60 | 1,90 |
| FRV055-240F | 550 mA | 240 | 1,25 | 26,0 | 7,0 | 3,40 | 0,45 | 1,45 |
| FRV075-240F | 750 mA | 240 | 1,50 | 18,0 | 7,5 | 2,60 | 0,32 | 0,84 |
| FRV100-240F | 1,00s A | 240 | 2,00 | 21,0 | 10,0 | 2,90 | 0,22 | 0,58 |
| FRV125-240F | 1,25 A | 240 | 2,50 | 23,0 | 12,5 | 3,30 | 0,17 | 0,44 |
| FRV150-240F | 1,50 A | 240 | 3,00 | 23,0 | 15,0 | 3,70 | 0,12 | 0,32 |
| FRV200-240F | 2,00 A | 240 | 4,00 | 28,0 | 20,0 | 4,50 | 0,09 | 0,22 |

Legende / Caption:

- I_H = Bemessungsstrom / Rated current
- I_T = Auslösestrom / Trip current
- I_{max} = Max. Strom / Max. current
- U_N = Bemessungsspannung / Rated voltage
- t_{Trip_max} = Max. Auslösezeit / Max. time to trip
- P_d = Verlustleistung / Power dissipation
- R = Widerstands-Bereich / Resistance range

De-Rating:



- A = FRV005-240F bis / to FRV055-240F
- B = FRV075-240F bis / to FRV200-240F

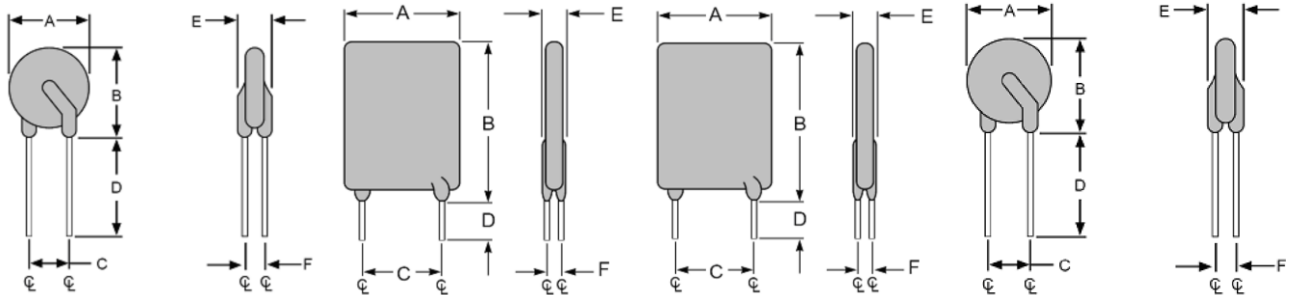
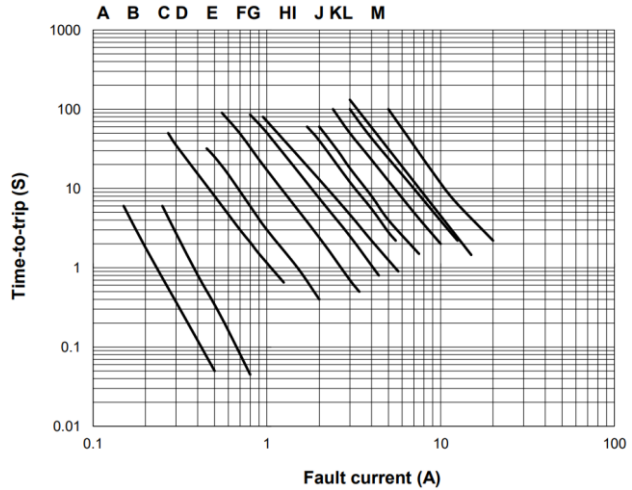
Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|----------------------------|--------------|--------------------------------------|--------------------|-----------------------------------|-----------------|
| Spannung Voltage | 240 V | Haltestrom Holding current | 50 mA – 2 A | Max. Strom Max. current | 1 - 20 A |
|----------------------------|--------------|--------------------------------------|--------------------|-----------------------------------|-----------------|

Auslösezeit / Time to trip (@ 23°C):

- | | |
|------------------------|------------------------|
| A = FRV005-240F | H = FRV055-240F |
| B = FRV008-240F | I = FRV075-240F |
| C = FRV012-240F | J = FRV100-240F |
| D = FRV016-240F | K = FRV125-240F |
| E = FRV025-240F | L = FRV150-240F |
| F = FRV033-240F | M = FRV200-240F |
| G = FRV040-240F | |



FRV005-240F bis / to FRV016-240F
Anschlussgröße / Lead size:
24 AWG (= Ø 0,51 mm)

FRV025-240F bis / to FRV040-240F
Anschlussgröße / Lead size:
22 AWG (= Ø 0,65 mm)

FRV055-240F, FRV075-240F, FRV200-240F
Anschlussgröße / Lead size:
20 AWG (= Ø 0,81 mm)

FRV100-240F bis / to FRV150-240F
Anschlussgröße / Lead size:
20 AWG (= Ø 0,81 mm)

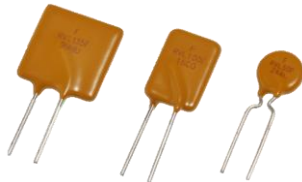
Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|-------------|------|------|------|-----|-----|-----|
| FRV005-240F | 8,3 | 10,7 | 5,1 | 7,6 | 3,8 | 1,6 |
| FRV008-240F | 8,3 | 10,7 | 5,1 | 7,6 | 3,8 | 1,6 |
| FRV012-240F | 8,3 | 10,7 | 5,1 | 7,6 | 3,8 | 1,6 |
| FRV016-240F | 9,9 | 12,5 | 5,1 | 7,6 | 3,8 | 1,6 |
| FRV025-240F | 9,6 | 17,4 | 5,1 | 7,6 | 3,8 | 1,8 |
| FRV033-240F | 11,4 | 16,5 | 5,1 | 7,6 | 3,8 | 1,8 |
| FRV040-240F | 11,5 | 19,5 | 5,1 | 7,6 | 3,8 | 1,8 |
| FRV055-240F | 14,0 | 21,7 | 5,1 | 7,6 | 4,1 | 1,9 |
| FRV075-240F | 11,5 | 23,7 | 5,1 | 7,6 | 4,8 | 1,9 |
| FRV100-240F | 18,7 | 24,4 | 10,2 | 7,6 | 5,1 | 1,9 |
| FRV125-240F | 21,2 | 27,4 | 10,2 | 7,6 | 5,3 | 1,9 |
| FRV150-240F | 23,4 | 30,9 | 10,2 | 7,6 | 5,3 | 1,9 |
| FRV200-240F | 24,9 | 33,8 | 10,2 | 7,6 | 6,1 | 1,9 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|--------------|---|------------------------|--|-----------------|
| Spannung <i>Voltage</i> | 120 V | Haltestrom <i>Holding current</i> | 100 mA – 3,75 A | Max. Strom <i>Max. current</i> | 2 - 20 A |
|-----------------------------------|--------------|---|------------------------|--|-----------------|



| | |
|---|--|
| Norm / <i>Standard</i> : | Werknorm / <i>Factory standard</i> |
| Anschluss / <i>Connection</i> : | Kupfer verzinkt / <i>Tin-plated copper</i> |
| Beschichtung / <i>Coating</i> : | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> <i>Flame retardant epoxy (UL-94V-0)</i> |
| Betriebstemperatur / <i>Operating temperature</i> : | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / <i>Solderability</i> : | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / <i>Packing options</i> : | Auf Anfrage / <i>On request</i> |

Bemessungswerte / Ratings (@ 23°C):

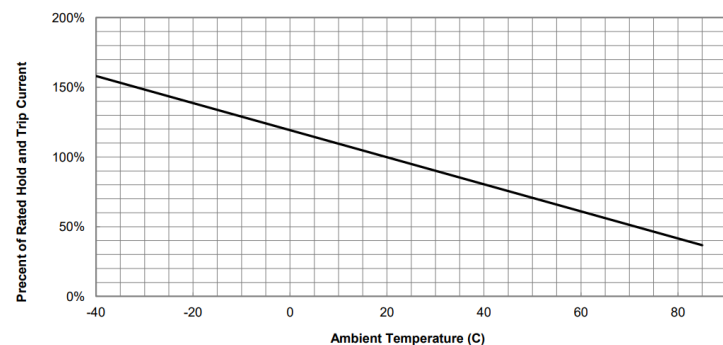
| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|--------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRVL010-120F | 100 mA | 120 | 0,20 | 10,0 | 2,0 | 0,84 | 3,00 | 7,50 |
| FRVL017-120F | 170 mA | 120 | 0,34 | 10,0 | 2,0 | 0,84 | 2,00 | 7,00 |
| FRVL020-120F | 200 mA | 120 | 0,40 | 9,0 | 2,0 | 1,08 | 1,83 | 4,40 |
| FRVL025-120F | 250 mA | 120 | 0,50 | 7,5 | 3,0 | 1,08 | 1,25 | 3,00 |
| FRVL030-120F | 300 mA | 120 | 0,60 | 8,5 | 3,0 | 1,44 | 0,88 | 2,10 |
| FRVL040-120F | 400 mA | 120 | 0,80 | 6,5 | 3,0 | 1,44 | 0,55 | 1,29 |
| FRVL050-120F | 500 mA | 120 | 1,00 | 6,0 | 3,0 | 1,56 | 0,50 | 1,17 |
| FRVL065-120F | 650 mA | 120 | 1,30 | 5,7 | 5,0 | 1,68 | 0,31 | 0,72 |
| FRVL070-120F | 700 mA | 120 | 1,50 | 6,3 | 5,0 | 1,80 | 0,25 | 0,60 |
| FRVL075-120F | 750 mA | 120 | 1,50 | 15,0 | 7,5 | 2,64 | 0,25 | 0,69 |
| FRVL090-120F | 900 mA | 120 | 1,80 | 7,2 | 5,0 | 1,80 | 0,20 | 0,47 |
| FRVL100-120F | 1,00 A | 120 | 2,00 | 15,0 | 10,0 | 2,64 | 0,18 | 0,47 |
| FRVL110-120F | 1,10 A | 120 | 2,20 | 8,2 | 8,0 | 2,28 | 0,15 | 0,38 |
| FRVL125-120F | 1,25 A | 120 | 2,50 | 20,0 | 12,5 | 2,88 | 0,11 | 0,33 |
| FRVL130-120F | 1,35 A | 120 | 2,70 | 9,6 | 10,0 | 2,64 | 0,12 | 0,30 |
| FRVL135-120F | 1,35 A | 120 | 2,70 | 20,0 | 13,5 | 3,12 | 0,11 | 0,30 |
| FRVL160-120F | 1,60 A | 120 | 3,20 | 11,4 | 12,0 | 3,12 | 0,09 | 0,22 |
| FRVL185-120F | 1,85 A | 120 | 3,70 | 12,6 | 12,0 | 3,36 | 0,08 | 0,19 |
| FRVL200-120F | 2,00 A | 120 | 4,20 | 36,0 | 20,0 | 4,32 | 0,08 | 0,21 |
| FRVL250-120F | 2,50 A | 120 | 5,00 | 15,6 | 15,0 | 4,44 | 0,05 | 0,13 |
| FRVL300-120F | 3,00 A | 120 | 6,00 | 19,8 | 17,0 | 4,56 | 0,04 | 0,10 |
| FRVL375-120F | 3,75 A | 120 | 7,50 | 24,0 | 20,0 | 4,86 | 0,03 | 0,08 |

FRVL-040-120F, FRVL070-120F, FRVL090-120F bis / *to* FRVL130-120F ausschließlich / *only* UL, TÜV

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



Radial leaded PPTC Rücksetzbar / Resettable

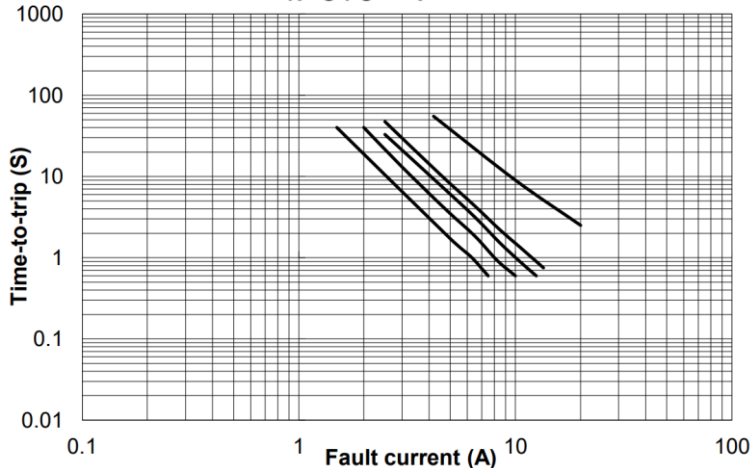
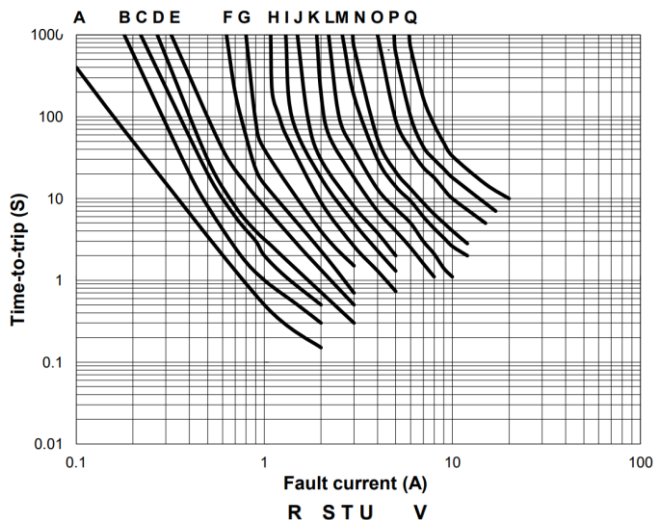


| | | | | | |
|----------------------------|--------------|--------------------------------------|------------------------|-----------------------------------|-----------------|
| Spannung Voltage | 120 V | Haltestrom Holding current | 100 mA – 3,75 A | Max. Strom Max. current | 2 - 20 A |
|----------------------------|--------------|--------------------------------------|------------------------|-----------------------------------|-----------------|

Auslösezeit / Time to trip (@ 23°C):

- | | |
|-------------------------|-------------------------|
| A = FRVL010-120F | I = FRVL070-120F |
| B = FRVL017-120F | J = FRVL090-120F |
| C = FRVL020-120F | K = FRVL110-120F |
| D = FRVL025-120F | L = FRVL130-120F |
| E = FRVL030-120F | M = FRVL160-120F |
| F = FRVL040-120F | N = FRVL185-120F |
| G = FRVL050-120F | O = FRVL250-120F |
| H = FRVL065-120F | P = FRVL300-120F |
| | Q = FRVL375-120F |

- | | |
|-------------------------|-------------------------|
| R = FRVL075-120F | U = FRVL135-120F |
| S = FRVL100-120F | V = FRVL200-120F |
| T = FRVL125-120F | |



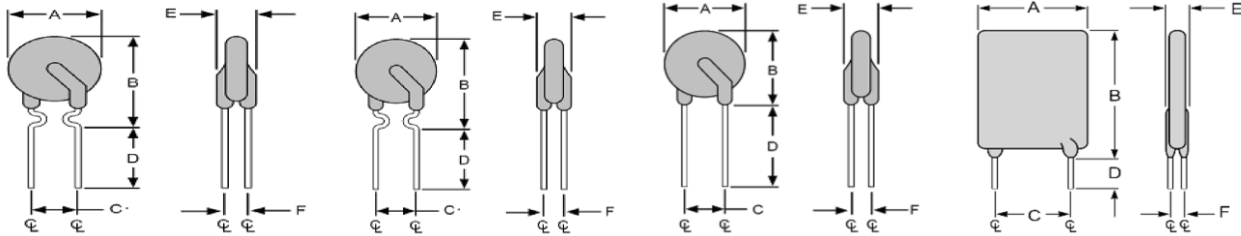
Radial leaded PPTC Rücksetzbar / Resettable



Spannung
Voltage **120 V**

Haltestrom
Holding current **100 mA – 3,75 A**

Max. Strom
Max. current **2 - 20 A**



FRV010-120F bis / to
FRVL017-120F
Anschlussgröße / Lead size:
24 AWG (= Ø 0,51 mm)

FRV020-120F bis / to
FRVL070-120F
& FRVL090-120F
Anschlussgröße / Lead size:
22 AWG (= Ø 0,65 mm)

FRVL110-120F, FRVL130-120F, FRVL075-120F, FRVL100-120F,
FRVL160-120F, FRVL185-120F, FRVL125-120F, FRVL135-120F,
FRVL250-120F bis / to
FRVL375-120F
Anschlussgröße / Lead size:
20 AWG (= Ø 0,81 mm)

Anschlussgröße / Lead size:
20 AWG (= Ø 0,81 mm)

Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|--------------|------|------|------|-----|-----|-----|
| FRVL010-120F | 7,9 | 13,0 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL017-120F | 7,9 | 13,0 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL020-120F | 7,9 | 13,0 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL025-120F | 7,9 | 13,0 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL030-120F | 7,9 | 13,0 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL040-120F | 8,2 | 14,2 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL050-120F | 9,2 | 14,9 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL065-120F | 9,7 | 14,9 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL070-120F | 10,6 | 15,5 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL075-120F | 10,9 | 17,0 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL090-120F | 11,9 | 15,9 | 5,1 | 7,6 | 3,8 | 2,2 |
| FRVL100-120F | 11,5 | 20,1 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL110-120F | 13,3 | 18,3 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL125-120F | 14,0 | 21,7 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL130-120F | 15,5 | 20,6 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL135-120F | 16,3 | 21,7 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL160-120F | 17,5 | 22,5 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL185-120F | 19,9 | 24,9 | 5,1 | 7,6 | 4,1 | 2,2 |
| FRVL200-120F | 23,5 | 27,9 | 10,2 | 7,6 | 4,1 | 2,2 |
| FRVL250-120F | 22,5 | 27,5 | 10,2 | 7,6 | 4,1 | 2,2 |
| FRVL300-120F | 25,5 | 30,0 | 10,2 | 7,6 | 4,1 | 2,2 |
| FRVL375-120F | 29,5 | 34,0 | 10,2 | 7,6 | 4,1 | 2,2 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|----------------------------|-------------|--------------------------------------|-----------------------|-----------------------------------|-------------|
| Spannung Voltage | 60 V | Haltestrom Holding current | 50 mA - 3,75 A | Max. Strom Max. current | 40 A |
|----------------------------|-------------|--------------------------------------|-----------------------|-----------------------------------|-------------|



| | |
|---|--|
| Norm / Standard: | Werknorm / Factory standard |
| Anschluss / Connection: | Kupfer verzinkt / Tin-plated copper |
| Beschichtung / Coating: | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / Insulating coating: Flame retardant epoxy (UL-94V-0) |
| Betriebstemperatur / Operating temperature: | -40°C bis / to 85°C (De-rating beachten / Consider De-rating) |
| Lötbarkeit / Solderability: | MIL-STD-202, Method 208E |
| Verpackungsmöglichkeiten / Packing options: | Auf Anfrage / On request |

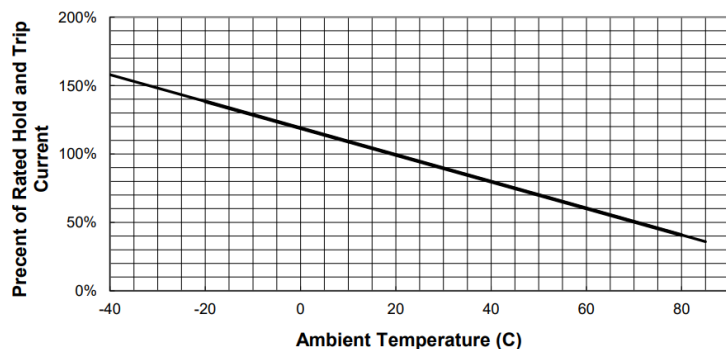
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|------------|----------------|-----------------------|-----------------------|---|-------------------------|-----------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRX005-60F | 50 mA | 60 | 0,10 | 5,0 | 40 | 0,26 | 7,30 | 20,00 |
| FRX010-60F | 100 mA | 60 | 0,20 | 4,0 | 40 | 0,38 | 2,50 | 7,50 |
| FRX017-60F | 170 mA | 60 | 0,34 | 3,0 | 40 | 0,48 | 2,00 | 8,00 |
| FRX020-60F | 200 mA | 60 | 0,40 | 2,2 | 40 | 0,41 | 1,83 | 4,40 |
| FRX025-60F | 250 mA | 60 | 0,50 | 2,5 | 40 | 0,45 | 1,25 | 3,00 |
| FRX030-60F | 300 mA | 60 | 0,60 | 3,0 | 40 | 0,49 | 0,88 | 2,10 |
| FRX040-60F | 400 mA | 60 | 0,80 | 3,8 | 40 | 0,56 | 0,55 | 1,29 |
| FRX050-60F | 500 mA | 60 | 1,00 | 4,0 | 40 | 0,77 | 0,50 | 1,17 |
| FRX065-60F | 650 mA | 60 | 1,30 | 5,3 | 40 | 0,88 | 0,31 | 0,72 |
| FRX075-60F | 750 mA | 60 | 1,50 | 6,3 | 40 | 0,92 | 0,25 | 0,60 |
| FRX090-60F | 900 mA | 60 | 1,80 | 7,2 | 40 | 0,99 | 0,20 | 0,47 |
| FRX110-60F | 1,10 A | 60 | 2,20 | 8,2 | 40 | 1,50 | 0,15 | 0,38 |
| FRX135-60F | 1,35 A | 60 | 2,27 | 9,6 | 40 | 1,70 | 0,12 | 0,30 |
| FRX160-60F | 1,60 A | 60 | 3,20 | 11,4 | 40 | 1,90 | 0,09 | 0,22 |
| FRX185-60F | 1,85 A | 60 | 3,70 | 12,6 | 40 | 2,10 | 0,08 | 0,19 |
| FRX250-60F | 2,50 A | 60 | 5,00 | 15,6 | 40 | 2,50 | 0,05 | 0,13 |
| FRX300-60F | 3,00 A | 60 | 6,00 | 19,8 | 40 | 2,80 | 0,04 | 0,10 |
| FRX375-60F | 3,75 A | 60 | 7,50 | 24,0 | 40 | 3,20 | 0,03 | 0,08 |

Legende / Caption:

- I_H = Bemessungsstrom / Rated current
- I_T = Auslösestrom / Trip current
- I_{max} = Max. Strom / Max. current
- U_N = Bemessungsspannung / Rated voltage
- t_{Trip_max} = Max. Auslösezeit / Max. time to trip
- P_d = Verlustleistung / Power dissipation
- R = Widerstands-Bereich / Resistance range

De-Rating:



Radial leaded PPTC Rücksetzbar / *Resettable*



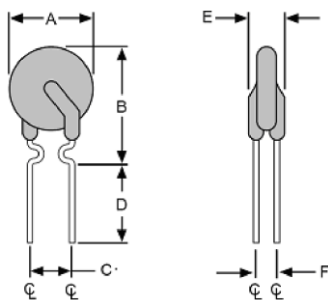
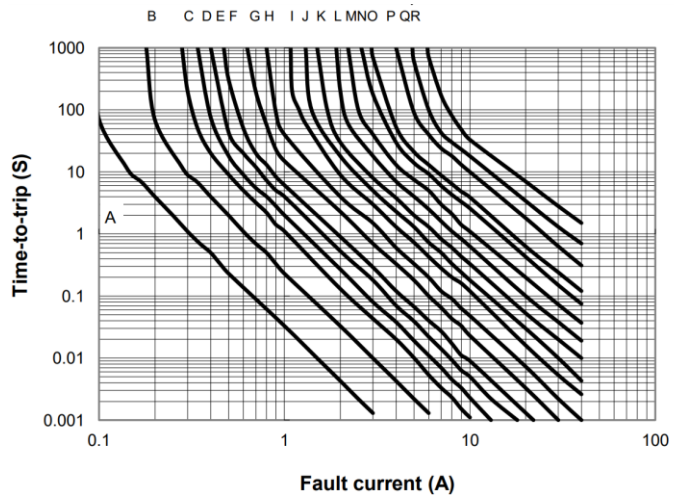
Spannung 60 V
Voltage

Haltestrom 50 mA - 3,75 A
Holding current

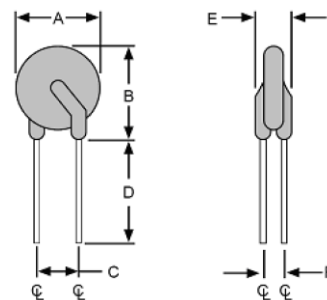
Max. Strom 40 A
Max. current

Auslösezeit / Time to trip (@ 23°C):

- | | |
|----------------|----------------|
| A = FRX005-60F | J = FRX075-60F |
| B = FRX010-60F | K = FRX090-60F |
| C = FRX017-60F | L = FRX110-60F |
| D = FRX020-60F | M = FRX135-60F |
| E = FRX025-60F | N = FRX160-60F |
| F = FRX030-60F | O = FRX185-60F |
| G = FRX040-60F | P = FRX250-60F |
| H = FRX050-60F | Q = FRX300-60F |
| I = FRX065-60F | R = FRX375-60F |



FRX005-60F bis / to FRX090-60F
Anschlussgröße / Lead size: 24 AWG (= Ø 0,51 mm)



FRX110-60F bis / to FRX375-60F
Anschlussgröße / Lead size: 20 AWG (= Ø 0,81 mm)

Maße / Dimensions [mm]:

| Art.No. | A | B | C | D | E | F |
|------------|------|------|------|-----|-----|-----|
| FRX005-60F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX010-60F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX017-60F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX020-60F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX025-60F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX030-60F | 7,4 | 13,0 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX040-60F | 7,6 | 13,5 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX050-60F | 7,9 | 13,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX065-60F | 9,7 | 14,5 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX075-60F | 10,4 | 15,2 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX090-60F | 11,7 | 15,8 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX110-60F | 13,0 | 18,0 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX135-60F | 14,5 | 19,6 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX160-60F | 16,3 | 21,3 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX185-60F | 17,8 | 22,9 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX250-60F | 21,3 | 26,4 | 10,2 | 7,6 | 3,1 | 1,4 |
| FRX300-60F | 24,9 | 30,0 | 10,2 | 7,6 | 3,1 | 1,4 |
| FRX375-60F | 28,5 | 33,5 | 10,2 | 7,6 | 3,1 | 1,4 |

Radial leaded PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|-------------|---|-----------------------|--|-------------|
| Spannung <i>Voltage</i> | 90 V | Haltestrom <i>Holding current</i> | 10 mA - 3,75 A | Max. Strom <i>Max. current</i> | 40 A |
|-----------------------------------|-------------|---|-----------------------|--|-------------|



| | |
|--|---|
| <i>Norm / Standard:</i> | Werknorm / <i>Factory standard</i> |
| <i>Anschluss / Connection:</i> | Kupfer verzinkt / <i>Tin-plated copper</i> |
| <i>Beschichtung / Coating:</i> | Isolierende Beschichtung: Flammenhemmendes Epoxidharz (UL-94V-0) / <i>Insulating coating:</i> Flame retardant epoxy (UL-94V-0) |
| <i>Betriebstemperatur / Operating temperature:</i> | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| <i>Lötbarkeit / Solderability:</i> | MIL-STD-202, Method 208E |
| <i>Verpackungsmöglichkeiten / Packing options:</i> | Auf Anfrage / <i>On request</i> |

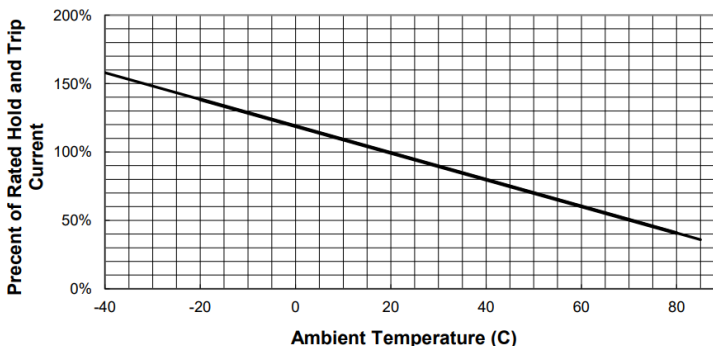
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @5xI _H [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|------------|----------------|--------------------|--------------------|---|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FRX010-90F | 100 mA | 90 | 0,20 | 4,00 | 40 | 0,38 | 2,50 | 7,50 |
| FRX015-90F | 150 mA | 90 | 0,35 | 10,0 | 40 | 0,70 | 2,40 | 7,00 |
| FRX017-90F | 170 mA | 90 | 0,34 | 3,00 | 40 | 0,48 | 2,00 | 8,00 |
| FRX020-90F | 200 mA | 90 | 0,40 | 2,20 | 40 | 0,41 | 1,83 | 4,40 |
| FRX025-90F | 250 mA | 90 | 0,50 | 2,50 | 40 | 0,45 | 1,25 | 3,00 |
| FRX030-90F | 300 mA | 90 | 0,60 | 3,00 | 40 | 0,49 | 0,88 | 2,10 |
| FRX035-90F | 350 mA | 90 | 0,75 | 10,0 | 40 | 1,30 | 0,70 | 2,50 |
| FRX040-90F | 400 mA | 90 | 0,80 | 3,80 | 40 | 0,56 | 0,55 | 1,29 |
| FRX050-90F | 500 mA | 90 | 1,00 | 4,00 | 40 | 0,77 | 0,50 | 1,17 |
| FRX055-90F | 550 mA | 90 | 1,20 | 10,0 | 40 | 1,50 | 0,40 | 1,50 |
| FRX065-90F | 650 mA | 90 | 1,30 | 5,30 | 40 | 0,88 | 0,31 | 0,72 |
| FRX075-90F | 750 mA | 90 | 1,50 | 6,30 | 40 | 0,92 | 0,25 | 0,60 |
| FRX090-90F | 900 mA | 90 | 1,80 | 7,20 | 40 | 0,99 | 0,20 | 0,47 |
| FRX110-90F | 1,10 A | 90 | 2,20 | 8,20 | 40 | 1,50 | 0,15 | 0,38 |
| FRX135-90F | 1,35 A | 90 | 2,70 | 9,60 | 40 | 1,70 | 0,12 | 0,30 |
| FRX160-90F | 1,60 A | 90 | 3,20 | 11,4 | 40 | 1,90 | 0,09 | 0,22 |
| FRX185-90F | 1,85 A | 90 | 3,70 | 12,4 | 40 | 2,10 | 0,08 | 0,19 |
| FRX250-90F | 2,50 A | 90 | 5,00 | 15,6 | 40 | 2,50 | 0,05 | 0,13 |
| FRX300-90F | 3,00 A | 90 | 6,00 | 19,8 | 40 | 2,80 | 0,04 | 0,10 |
| FRX375-90F | 3,75 A | 90 | 7,50 | 24,0 | 40 | 3,20 | 0,03 | 0,08 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



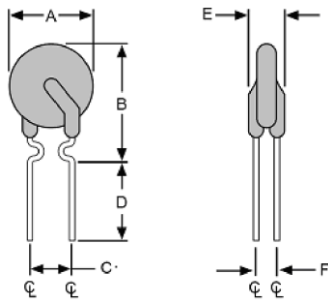
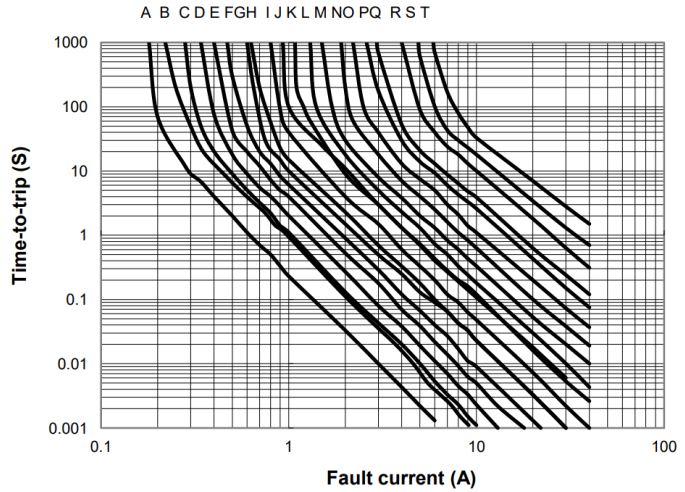
Radial leaded PPTC Rücksetzbar / *Resettable*



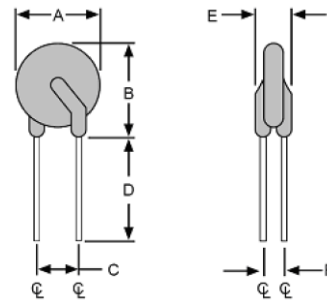
| | | | | | |
|-----------------------------------|-------------|---|-----------------------|--|-------------|
| Spannung <i>Voltage</i> | 90 V | Haltestrom <i>Holding current</i> | 10 mA - 3,75 A | Max. Strom <i>Max. current</i> | 40 A |
|-----------------------------------|-------------|---|-----------------------|--|-------------|

Auslösezeit / Time to trip (@ 23°C):

- | | |
|-----------------------|-----------------------|
| A = FRX010-90F | K = FRX065-90F |
| B = FRX015-90F | L = FRX075-90F |
| C = FRX017-90F | M = FRX090-90F |
| D = FRX020-90F | N = FRX110-90F |
| E = FRX025-90F | O = FRX135-90F |
| F = FRX030-90F | P = FRX160-90F |
| G = FRX035-90F | Q = FRX185-90F |
| H = FRX040-90F | R = FRX250-90F |
| I = FRX050-90F | S = FRX300-90F |
| J = FRX055-90F | T = FRX375-90F |



FRX010-90F bis / to FRX090-90F
Anschlussgröße / *Lead size*: 24 AWG (= Ø 0,51 mm)



FRX110-90F bis / to FRX375-90F
Anschlussgröße / *Lead size*: 20 AWG (= Ø 0,81 mm)

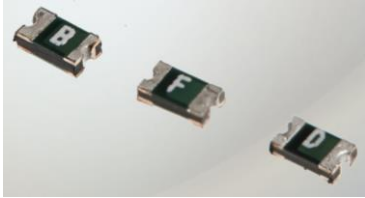
Maße / Dimensions [mm]:

| Art. No. | A | B | C | D | E | F |
|------------|------|------|------|-----|-----|-----|
| FRX010-90F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX015-90F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX017-90F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX020-90F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX025-90F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX030-90F | 7,4 | 13,0 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX035-90F | 7,4 | 12,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX040-90F | 7,6 | 13,5 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX050-90F | 7,9 | 13,7 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX055-90F | 9,7 | 14,0 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX065-90F | 9,7 | 14,5 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX075-90F | 10,4 | 15,2 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX090-90F | 11,7 | 15,8 | 5,1 | 7,6 | 3,1 | 1,1 |
| FRX110-90F | 13,0 | 18,0 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX135-90F | 14,5 | 19,6 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX160-90F | 16,3 | 21,3 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX185-90F | 17,8 | 22,9 | 5,1 | 7,6 | 3,1 | 1,4 |
| FRX250-90F | 21,3 | 26,4 | 10,2 | 7,6 | 3,1 | 1,4 |
| FRX300-90F | 24,9 | 30,0 | 10,2 | 7,6 | 3,1 | 1,4 |
| FRX375-90F | 28,5 | 33,5 | 10,2 | 7,6 | 3,1 | 1,4 |

Surface mountable PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------|-------------------|------------------------|-----------------------|---------------------|-------------|
| Spannung | 9 V – 60 V | Haltestrom | 10 mA – 200 mA | Max. Strom | 40 A |
| <i>Voltage</i> | | <i>Holding current</i> | | <i>Max. current</i> | |



Norm / *Standard*: Werknorm / *Factory standard*

Anschluss / *Connection*: Reines Zinn / *Pure tin*

Betriebstemperatur / *Operating temperature*: -40°C bis / *to* 85°C
(De-rating beachten / *Consider De-rating*)

Lötbarkeit / *Solderability*: RS 186-9E, ANSI/J-std-002 Cat,3

Verpackungsmöglichkeiten / *Packing options*: Auf Anfrage / *On request*

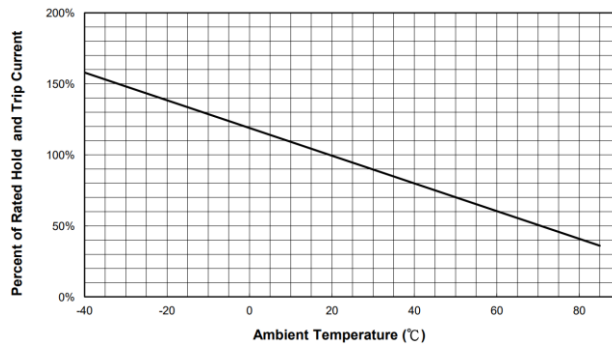
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|----------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD001-0603-R | 10 mA | 60 | 0,03 | 1,00 | 40 | 0,5 | 15,00 | 100,00 |
| FSMD002-0603-R | 20 mA | 60 | 0,06 | 1,00 | 40 | 0,5 | 12,00 | 70,00 |
| FSMD003-0603-R | 30 mA | 30 | 0,09 | 1,00 | 40 | 0,5 | 6,00 | 50,00 |
| FSMD004-0603-R | 40 mA | 24 | 0,12 | 1,00 | 40 | 0,5 | 4,00 | 40,00 |
| FSMD005-0603-R | 50 mA | 15 | 0,15 | 0,10 | 40 | 0,5 | 3,80 | 30,00 |
| FSMD010-0603-R | 100 mA | 15 | 0,25 | 0,10 | 40 | 0,5 | 0,90 | 8,00 |
| FSMD012-0603-R | 120 mA | 9 | 0,30 | 0,10 | 40 | 0,5 | 1,10 | 5,80 |
| FSMD016-0603-R | 160 mA | 9 | 0,40 | 0,10 | 40 | 0,5 | 1,00 | 4,20 |
| FSMD020-0603-R | 200 mA | 9 | 0,45 | 0,10 | 40 | 0,5 | 0,55 | 3,50 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



Surface mountable PPTC Rücksetzbar / Resettable



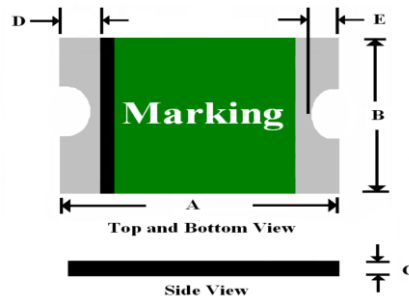
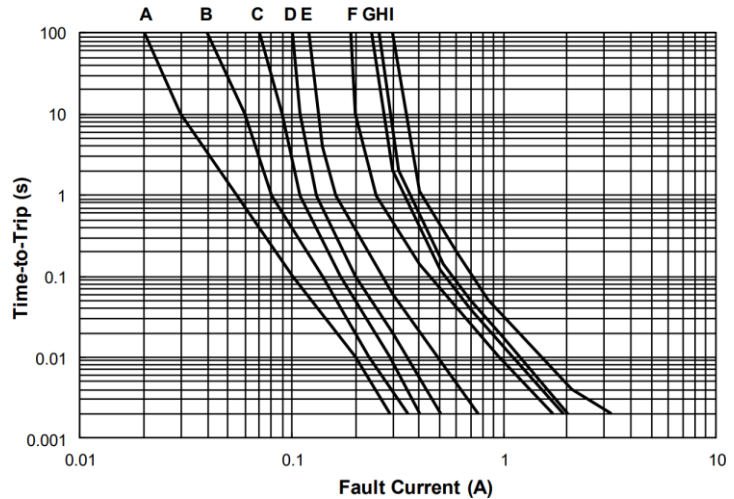
Spannung
Voltage **9 V – 60 V**

Haltestrom
Holding current **10 mA – 200 mA**

Max. Strom
Max. current **40 A**

Auslösezeit / Time to trip (@ 23°C):

- | | |
|---------------------------|---------------------------|
| A = FSMD001-0603-R | F = FSMD010-0603-R |
| B = FSMD002-0603-R | G = FSMD012-0603-R |
| C = FSMD003-0603-R | H = FSMD016-0603-R |
| D = FSMD004-0603-R | I = FSMD020-0603-R |
| E = FSMD005-0603-R | |



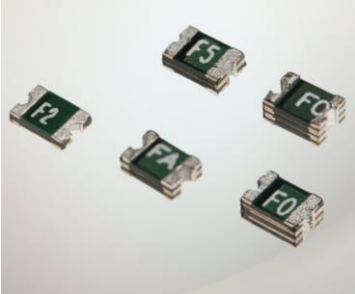
Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|----------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD001-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,85 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD002-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,85 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD003-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD004-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD005-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD010-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD012-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD016-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |
| FSMD020-0603-R | 1,40 | 1,80 | 0,45 | 1,00 | 0,35 | 0,75 | 0,10 | 0,50 | 0,08 | 0,40 |

Surface mountable PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|-------------------|---|-----------------------|--|--------------|
| Spannung <i>Voltage</i> | 6 V – 24 V | Haltestrom <i>Holding current</i> | 100 mA – 1,1 A | Max. Strom <i>Max. current</i> | 100 A |
|-----------------------------------|-------------------|---|-----------------------|--|--------------|



| | |
|---|---|
| Norm / <i>Standard</i> : | Werknorm / <i>Factory standard</i> |
| Anschluss / <i>Connection</i> : | Reines Zinn / <i>Pure tin</i> |
| Betriebstemperatur / <i>Operating temperature</i> : | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / <i>Solderability</i> : | RS 186-9E, ANSI/J-std-002 Cat,3 |
| Verpackungsmöglichkeiten / <i>Packing options</i> : | Auf Anfrage / <i>On request</i> |

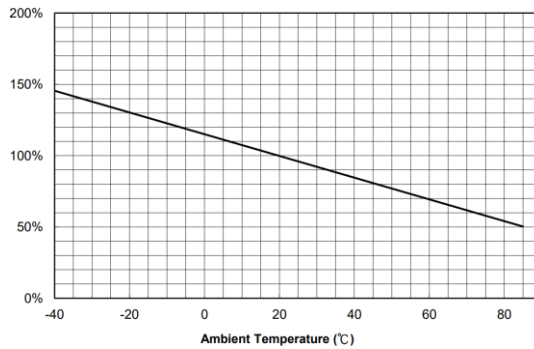
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD010-0805-R | 100 mA | 15 | 0,30 | 1,50 | 100 | 0,5 | 0,700 | 6,000 |
| FSMD010-24-0805-R | 100 mA | 24 | 0,30 | 1,50 | 100 | 0,5 | 0,700 | 6,000 |
| FSMD020-0805-R | 200 mA | 9 | 0,50 | 0,02 | 100 | 0,5 | 0,400 | 3,500 |
| FSMD035-0805R | 350 mA | 6 | 0,75 | 0,10 | 100 | 0,5 | 0,250 | 1,200 |
| FSMD050-0805R | 500 mA | 6 | 1,00 | 0,10 | 100 | 0,5 | 0,150 | 0,850 |
| FSMD050-9-0805R | 500 mA | 9 | 1,00 | 0,10 | 100 | 0,5 | 0,150 | 0,850 |
| FSMD075-0805R | 750 mA | 6 | 1,50 | 0,20 | 100 | 0,6 | 0,090 | 0,350 |
| FSMD100-0805R | 1,00 A | 6 | 1,50 | 0,30 | 100 | 0,6 | 0,060 | 0,210 |
| FSMD110-0805R | 1,10 A | 6 | 2,20 | 0,20 | 100 | 0,6 | 0,050 | 0,170 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



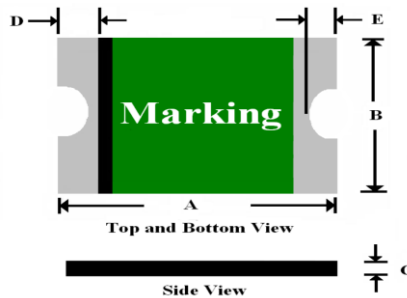
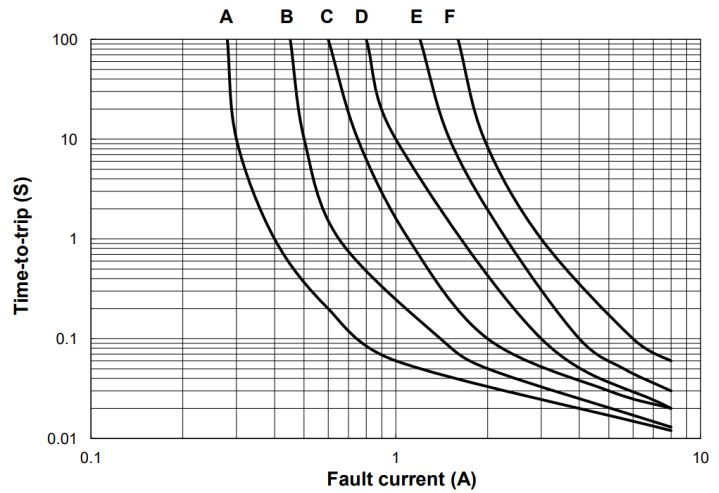
Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|----------------------------|------------|--------------------------------------|----------------|-----------------------------------|-------|
| Spannung Voltage | 6 V – 24 V | Haltestrom Holding current | 100 mA – 1,1 A | Max. Strom Max. current | 100 A |
|----------------------------|------------|--------------------------------------|----------------|-----------------------------------|-------|

Auslösezeit / Time to trip (@ 23°C):

- | | |
|--|---|
| A = FSMD010-0805-R = FSMD010-24-0805-R | D = FSMD050-0805R = FSMD050-9-0805R |
| B = FSMD020-0805-R | E = FSMD075-0805R |
| C = FSMD035-0805-R | F = FSMD100-0805R |



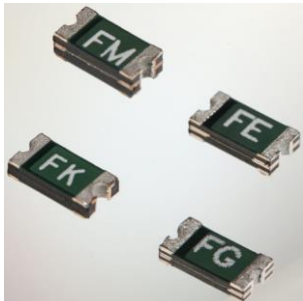
Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|-------------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD010-0805-R | 2,00 | 2,30 | 1,20 | 1,50 | 0,30 | 1,00 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD010-24-0805-R | 2,00 | 2,30 | 1,20 | 1,50 | 0,30 | 1,00 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD020-0805-R | 2,00 | 2,30 | 1,20 | 1,50 | 0,30 | 1,00 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD035-0805R | 2,00 | 2,30 | 1,20 | 1,50 | 0,55 | 1,25 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD050-0805R | 2,00 | 2,30 | 1,20 | 1,50 | 0,55 | 1,25 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD050-9-0805R | 2,00 | 2,30 | 1,20 | 1,50 | 0,55 | 1,25 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD075-0805R | 2,00 | 2,30 | 1,20 | 1,50 | 0,55 | 1,25 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD100-0805R | 2,00 | 2,30 | 1,20 | 1,50 | 0,55 | 1,25 | 0,10 | 0,60 | 0,10 | 0,45 |
| FSMD110-0805R | 2,00 | 2,30 | 1,20 | 1,50 | 0,55 | 1,25 | 0,10 | 0,60 | 0,10 | 0,45 |

Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|
| Spannung Voltage | 6 V – 60 V | Haltestrom Holding current | 50 mA – 2 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|



| | |
|---|--|
| Norm / Standard: | Werknorm / Factory standard |
| Anschluss / Connection: | Reines Zinn / Pure tin |
| Betriebstemperatur / Operating temperature: | -40°C bis / to 85°C (De-rating beachten / Consider De-rating) |
| Lötbarkeit / Solderability: | RS 186-9E, ANSI/J-std-002 Cat,3 |
| Verpackungsmöglichkeiten / Packing options: | Auf Anfrage / On request |

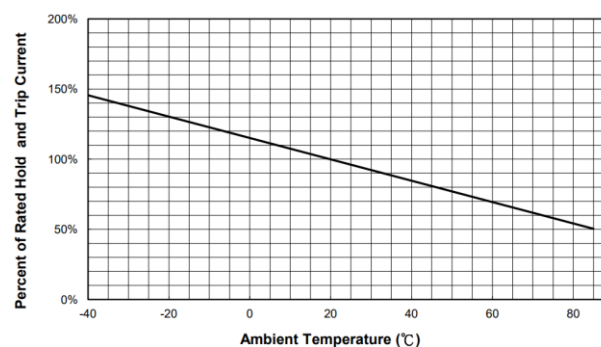
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD005-1206-R | 50 mA | 60 | 0,15 | 1,50 | 100 | 0,4 | 3,600 | 50,000 |
| FSMD010-1206-R | 100 mA | 60 | 0,25 | 1,00 | 100 | 0,4 | 1,600 | 15,000 |
| FSMD012-1206-R | 120 mA | 48 | 0,39 | 0,20 | 100 | 0,6 | 1,400 | 6,500 |
| FSMD016-1206-R | 160 mA | 48 | 0,45 | 0,30 | 100 | 0,6 | 1,100 | 5,000 |
| FSMD020-1206-R | 200 mA | 30 | 0,40 | 0,10 | 100 | 0,4 | 0,600 | 2,500 |
| FSMD025-1206-R | 250 mA | 16 | 0,50 | 0,08 | 100 | 0,6 | 0,550 | 2,300 |
| FSMD025-24-1206-R | 250 mA | 24 | 0,50 | 0,08 | 100 | 0,6 | 0,550 | 2,300 |
| FSMD035-1206-R | 350 mA | 16 | 0,75 | 0,10 | 100 | 0,4 | 0,300 | 1,200 |
| FSMD035-30-1206R | 350 mA | 30 | 0,75 | 0,10 | 100 | 0,6 | 0,300 | 1,200 |
| FSMD050-1206-R | 500 mA | 8 | 1,00 | 0,10 | 100 | 0,4 | 0,150 | 0,700 |
| FSMD050-24-1206R | 500 mA | 24 | 1,00 | 0,10 | 100 | 0,6 | 0,150 | 0,750 |
| FSMD075-1206R | 750 mA | 8 | 1,50 | 0,20 | 100 | 0,6 | 0,090 | 0,290 |
| FSMD075-16-1206R | 750 mA | 16 | 1,50 | 0,20 | 100 | 0,6 | 0,090 | 0,290 |
| FSMD100-1206R | 1,00 A | 6 | 1,80 | 0,30 | 100 | 0,6 | 0,055 | 0,210 |
| FSMD110-1206R | 1,10 A | 8 | 2,20 | 0,30 | 100 | 0,8 | 0,040 | 0,180 |
| FSMD110-16-1206R | 1,10 A | 16 | 2,20 | 0,30 | 100 | 0,8 | 0,040 | 0,180 |
| FSMD150-1206R | 1,50 A | 8 | 3,00 | 1,00 | 100 | 0,8 | 0,040 | 0,120 |
| FSMD200-1206R | 2,00 A | 6 | 3,50 | 1,50 | 100 | 0,8 | 0,018 | 0,080 |

Legende / Caption:

- I_H = Bemessungsstrom / Rated current
- I_T = Auslösestrom / Trip current
- I_{max} = Max. Strom / Max. current
- U_N = Bemessungsspannung / Rated voltage
- t_{Trip_max} = Max. Auslösezeit / Max. time to trip
- P_d = Verlustleistung / Power dissipation
- R = Widerstands-Bereich / Resistance range

De-Rating:



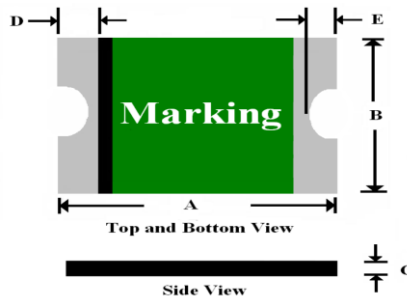
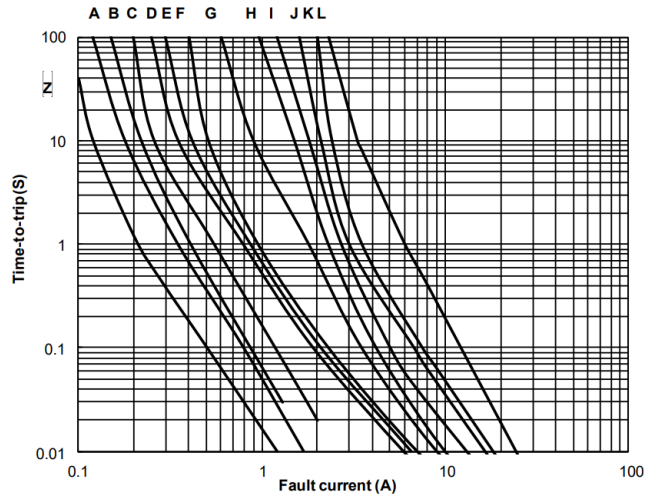
Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|
| Spannung Voltage | 6 V – 60 V | Haltestrom Holding current | 50 mA – 2 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|

Auslösezeit / Time to trip (@ 23°C):

- | | |
|---------------------------|---------------------------|
| Z = FSMD005-1206-R | G = FSMD050-1206-R |
| A = FSMD010-1206-R | = FSMD050-24-1206R |
| B = FSMD012-1206-R | H = FSMD075-1206R |
| C = FSMD016-1206-R | = FSMD075-16-1206R |
| D = FSMD020-1206-R | I = FSMD100-1206R |
| E = FSMD025-1206-R | J = FSMD110-1206R |
| = FSMD025-24-1206-R | = FSMD110-16-1206R |
| F = FSMD035-1206-R | K = FSMD150-1206R |
| = FSMD035-30-1206R | L = FSMD200-1206R |



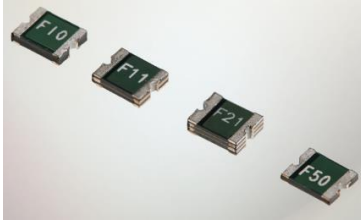
Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|-------------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD005-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,85 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD010-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,85 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD012-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,85 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD016-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,75 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD020-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,75 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD025-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,75 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD025-24-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 0,75 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD035-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,30 | 0,75 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD035-30-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,90 | 1,30 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD050-1206-R | 3,00 | 3,50 | 1,50 | 1,80 | 0,25 | 0,55 | 0,10 | 0,75 | 0,10 | 0,45 |
| FSMD050-24-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,80 | 1,20 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD075-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 1,25 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD075-16-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 1,25 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD100-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 1,00 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD110-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,45 | 1,00 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD110-16-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,80 | 1,40 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD150-1206R | 3,00 | 3,50 | 1,50 | 1,80 | 0,80 | 1,40 | 0,25 | 0,75 | 0,10 | 0,45 |

Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|
| Spannung Voltage | 6 V – 60 V | Haltestrom Holding current | 50 mA – 2 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|



| | |
|---|--|
| Norm / Standard: | Werknorm / Factory standard |
| Anschluss / Connection: | Reines Zinn / Pure tin |
| Betriebstemperatur / Operating temperature: | -40°C bis / to 85°C (De-rating beachten / Consider De-rating) |
| Lötbarkeit / Solderability: | RS 186-9E, ANSI/J-std-002 Cat,3 |
| Verpackungsmöglichkeiten / Packing options: | Auf Anfrage / On request |

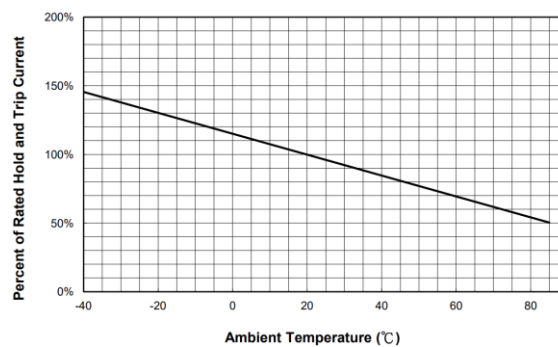
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|------------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD005-1210-R | 50 mA | 60 | 0,15 | 1,50 | 100 | 0,60 | 3,600 | 50,000 |
| FSMD010-1210-R | 100 mA | 60 | 0,25 | 1,50 | 100 | 0,60 | 1,600 | 15,000 |
| FSMD020-1210-R | 200 mA | 30 | 0,40 | 0,02 | 100 | 0,60 | 0,800 | 5,000 |
| FSMD035-1210-R | 350 mA | 16 | 0,70 | 0,20 | 100 | 0,60 | 0,320 | 1,300 |
| FSMD050-1210-R | 500 mA | 16 | 1,00 | 0,10 | 100 | 0,60 | 0,250 | 0,900 |
| FSMD075-1210-R | 750 mA | 8 | 1,50 | 0,10 | 100 | 0,60 | 0,130 | 0,400 |
| FSMD075-24-1210R | 750 mA | 24 | 1,50 | 0,10 | 100 | 0,60 | 0,130 | 0,400 |
| FSMD110-1210R | 1,10 A | 8 | 2,20 | 0,30 | 100 | 0,80 | 0,060 | 0,210 |
| FSMD110-16-1210R | 1,10 A | 16 | 2,20 | 0,30 | 100 | 0,80 | 0,060 | 0,210 |
| FSMD150-1210R | 1,50 A | 6 | 3,00 | 0,50 | 100 | 0,80 | 0,040 | 0,110 |
| FSMD175-1210R | 1,75 A | 6 | 4,00 | 0,60 | 100 | 0,80 | 0,020 | 0,080 |
| FSMD200-1210R | 2,00 A | 6 | 4,00 | 1,00 | 100 | 0,80 | 0,015 | 0,070 |

Legende / Caption:

- I_H = Bemessungsstrom / Rated current
- I_T = Auslösestrom / Trip current
- I_{max} = Max. Strom / Max. current
- U_N = Bemessungsspannung / Rated voltage
- t_{Trip_max} = Max. Auslösezeit / Max. time to trip
- P_d = Verlustleistung / Power dissipation
- R = Widerstands-Bereich / Resistance range

De-Rating:



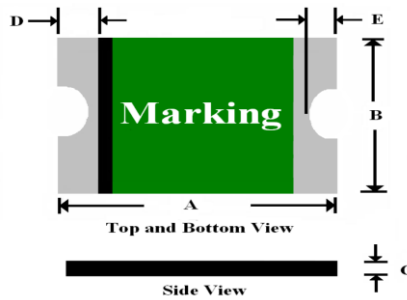
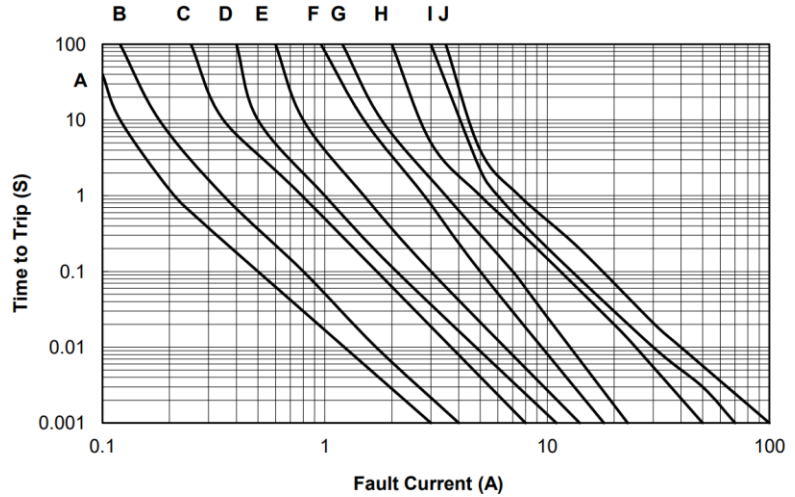
Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|
| Spannung Voltage | 6 V – 60 V | Haltestrom Holding current | 50 mA – 2 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------------|--------------------------------------|--------------------|-----------------------------------|--------------|

Auslösezeit / Time to trip (@ 23°C):

- A = FSMD005-1210-R G = FSMD110-1210R
- B = FSMD010-1210-R = FSMD110-16-1210R
- C = FSMD020-1210-R H = FSMD150-1210R
- D = FSMD035-1210-R I = FSMD175-1210R
- E = FSMD050-1210-R J = FSMD200-1210R
- F = FSMD075-1210-R
- = FSMD075-24-1210R



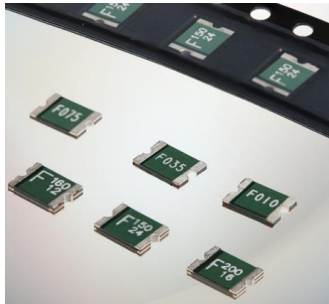
Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|------------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD005-1210-R | 3,00 | 3,43 | 2,35 | 2,80 | 0,60 | 1,15 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD010-1210-R | 3,00 | 3,43 | 2,35 | 2,80 | 0,60 | 1,15 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD020-1210-R | 3,00 | 3,43 | 2,35 | 2,80 | 0,40 | 0,85 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD035-1210-R | 3,00 | 3,43 | 2,35 | 2,80 | 0,40 | 0,80 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD050-1210-R | 3,00 | 3,43 | 2,35 | 2,80 | 0,30 | 0,75 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD075-1210-R | 3,00 | 3,43 | 2,35 | 2,80 | 0,30 | 0,70 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD075-24-1210R | 3,00 | 3,43 | 2,35 | 2,80 | 0,80 | 1,20 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD110-1210R | 3,00 | 3,43 | 2,35 | 2,80 | 0,60 | 1,00 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD110-16-1210R | 3,00 | 3,43 | 2,35 | 2,80 | 0,60 | 1,00 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD150-1210R | 3,00 | 3,43 | 2,35 | 2,80 | 0,50 | 0,90 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD175-1210R | 3,00 | 3,43 | 2,35 | 2,80 | 0,80 | 1,40 | 0,25 | 0,75 | 0,10 | 0,45 |
| FSMD200-1210R | 3,00 | 3,43 | 2,35 | 2,80 | 0,80 | 1,40 | 0,25 | 0,75 | 0,10 | 0,45 |

Surface mountable PPTC Rücksetzbar / Resettable



Spannung 6 V – 60 V **Haltestrom** 100 mA – 3 A **Max. Strom** 100 A
Voltage *Holding current* *Max. current*



Norm / Standard: Werknorm / Factory standard
Anschluss / Connection: Reines Zinn / Pure tin
Betriebstemperatur / Operating temperature: -40°C bis / to 85°C
(De-rating beachten / Consider De-rating)
Lötbarkeit / Solderability: RS 186-9E, ANSI/J-std-002 Cat,3
Verpackungsmöglichkeiten / Packing options: Auf Anfrage / On request

Bemessungswerte / Ratings (@ 23°C):

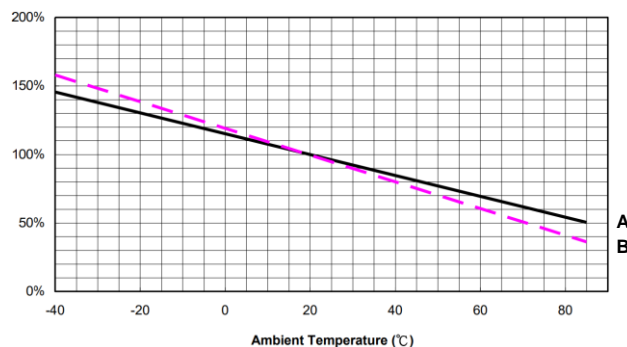
| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|--------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD010-R | 100 mA | 60 | 0,30 | 0,020 | 100 | 0,8 | 1,600 | 15,000 |
| FSMD014-R | 140 mA | 60 | 0,30 | 0,008 | 100 | 0,8 | 1,200 | 6,500 |
| FSMD020-R | 200 mA | 30 | 0,40 | 0,020 | 100 | 0,8 | 0,800 | 5,000 |
| FSMD020-60-R | 200 mA | 60 | 0,40 | 0,020 | 100 | 0,8 | 0,800 | 5,000 |
| FSMD030-R | 300 mA | 30 | 0,60 | 0,100 | 100 | 0,8 | 0,200 | 1,750 |
| FSMD035-R | 350 mA | 16 | 0,70 | 0,100 | 100 | 0,8 | 0,320 | 1,500 |
| FSMD035-30-R | 350 mA | 30 | 0,70 | 0,100 | 100 | 0,8 | 0,320 | 1,500 |
| FSMD050-R | 500 mA | 16 | 1,00 | 0,150 | 100 | 0,8 | 0,150 | 1,000 |
| FSMD050-30-R | 500 mA | 30 | 1,00 | 0,150 | 100 | 0,8 | 0,150 | 1,000 |
| FSMD075-R | 750 mA | 16 | 1,50 | 0,200 | 100 | 0,8 | 0,110 | 0,450 |
| FSMD075-24R | 750 mA | 24 | 1,50 | 0,200 | 100 | 1,0 | 0,110 | 0,290 |
| FSMD075-33R | 750 mA | 33 | 1,50 | 0,200 | 100 | 1,0 | 0,110 | 0,400 |
| FSMD110-R | 1,10 A | 8 | 2,20 | 0,300 | 100 | 0,8 | 0,040 | 0,210 |
| FSMD110-16-R | 1,10 A | 16 | 2,20 | 0,500 | 100 | 0,8 | 0,060 | 0,180 |
| FSMD110-24R | 1,10 A | 24 | 2,20 | 0,500 | 100 | 1,0 | 0,060 | 0,200 |
| FSMD110-33R | 1,10 A | 33 | 2,20 | 0,500 | 100 | 0,8 | 0,060 | 0,200 |
| FSMD125-R | 1,25 A | 6 | 2,50 | 0,400 | 100 | 0,8 | 0,050 | 0,140 |
| FSMD125-16R | 1,25 A | 16 | 2,50 | 0,400 | 100 | 0,8 | 0,050 | 0,140 |
| FSMD150-R | 1,50 A | 8 | 3,00 | 0,500 | 100 | 0,8 | 0,040 | 0,110 |
| FSMD150-12R | 1,50 A | 12 | 3,00 | 0,500 | 100 | 1,0 | 0,040 | 0,110 |
| FSMD150-24R | 1,50 A | 24 | 3,00 | 1,500 | 100 | 1,0 | 0,040 | 0,120 |
| FSMD160-R | 1,60 A | 8 | 3,20 | 0,500 | 100 | 0,8 | 0,030 | 0,100 |
| FSMD160-12R | 1,60 A | 12 | 3,20 | 1,000 | 100 | 1,0 | 0,030 | 0,100 |
| FSMD160-16R | 1,60 A | 16 | 3,20 | 1,000 | 100 | 1,0 | 0,030 | 0,100 |
| FSMD160-24R | 1,60 A | 24 | 3,20 | 1,000 | 100 | 1,0 | 0,030 | 0,100 |
| FSMD200R | 2,00 A | 8 | 3,50 | 2,000 | 100 | 1,0 | 0,020 | 0,070 |
| FSMD200-16R | 2,00 A | 16 | 3,50 | 5,000 | 100 | 1,0 | 0,020 | 0,085 |
| FSMD260R | 2,60 A | 8 | 5,00 | 2,500 | 100 | 1,0 | 0,015 | 0,047 |
| FSMD260-13R | 2,60 A | 13,2 | 5,00 | 5,000 | 100 | 1,3 | 0,015 | 0,050 |
| FSMD260-16R | 2,60 A | 16 | 5,00 | 5,000 | 100 | 1,3 | 0,015 | 0,050 |
| FSMD300R | 3,00 A | 6 | 5,00 | 4,000 | 100 | 1,0 | 0,012 | 0,040 |

Legende / Caption:

- I_H = Bemessungsstrom / Rated current
- I_T = Auslösestrom / Trip current
- I_{max} = Max. Strom / Max. current
- U_N = Bemessungsspannung / Rated voltage
- t_{Trip_max} = Max. Auslösezeit / Max. time to trip
- P_d = Verlustleistung / Power dissipation
- R = Widerstands-Bereich / Resistance range

- A** = FSMD075-R bis / to FSMD300R
- B** = FSMD010-R bis / to FSMD050-30-R

De-Rating:



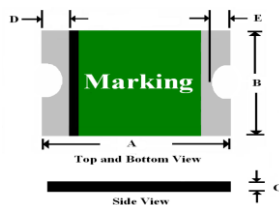
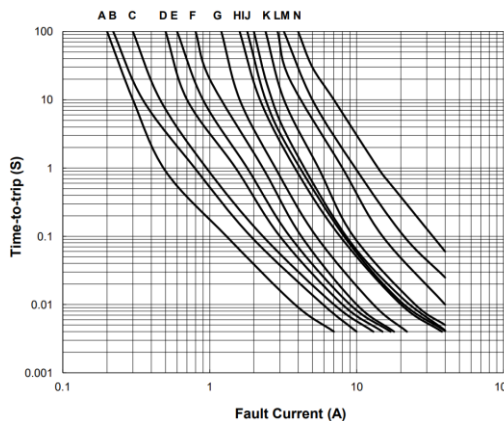
Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|-----------------|-------------------|------------------------|---------------------|---------------------|--------------|
| Spannung | 6 V – 60 V | Haltestrom | 100 mA – 3 A | Max. Strom | 100 A |
| <i>Voltage</i> | | <i>Holding current</i> | | <i>Max. current</i> | |

Auslösezeit / Time to trip (@ 23°C):

- | | |
|---------------------------------|----------------------|
| A = FSMD01 0-R | I = FSMD125-R |
| B = FSMD014-R | = FSMD125-16R |
| C = FSMD020-R / 020-60-R | J = FSMD150-R |
| D = FSMD030-R | = FSMD150-12R |
| E = FSMD035-R / 035-30-R | = FSMD150-24R |
| F = FSMD050-R / 050-30-R | K = FSMD160-R |
| G = FSMD075-R | = FSMD160-12R |
| = FSMD075-24R | = FSMD160-16R |
| = FSMD075-33R | L = FSMD200R |
| H = FSMD110-R | = FSMD200-16R |
| = FSMD110-16-R | M = FSMD260R |
| = FSMD110-24R | = FSMD260-13R |
| = FSMD110-33R | = FSMD260-16R |
| | N = FSMD300R |



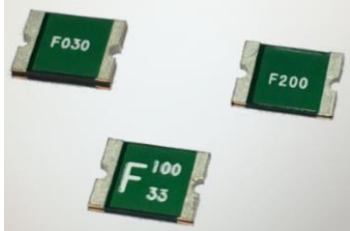
Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|--------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD010-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 0,90 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD014-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 0,90 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD020-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 0,90 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD020-60-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 0,90 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD030-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,40 | 0,70 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD035-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,40 | 0,70 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD050-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,35 | 0,65 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD050-30-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,45 | 0,75 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD075-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,35 | 0,65 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD075-24R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,55 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD075-33R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,55 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD110-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,25 | 0,55 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD110-16-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,25 | 0,90 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD110-24R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,30 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD110-33R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,30 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD125-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,25 | 0,55 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD125-16R | 4,37 | 4,73 | 3,07 | 3,41 | 0,50 | 1,00 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD150-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,25 | 0,55 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD150-12R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 1,10 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD150-24R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 1,55 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD160-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,25 | 0,90 | 0,30 | 0,95 | 0,25 | 0,65 |
| FSMD160-12R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 1,35 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD160-16R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 1,35 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD160-24R | 4,37 | 4,73 | 3,07 | 3,41 | 0,55 | 1,20 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD200-R | 4,37 | 4,73 | 3,07 | 3,41 | 0,55 | 1,35 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD200-16R | 4,37 | 4,73 | 3,07 | 3,41 | 0,60 | 1,55 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD260R | 4,37 | 4,73 | 3,07 | 3,41 | 0,55 | 1,20 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD260-13R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,20 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD260-16R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,55 | 0,25 | 0,95 | 0,25 | 0,65 |
| FSMD300R | 4,37 | 4,73 | 3,07 | 3,41 | 0,80 | 1,55 | 0,25 | 0,95 | 0,25 | 0,65 |

Surface mountable PPTC Rücksetzbar / *Resettable*



| | | | | | |
|-----------------------------------|-------------------|---|---------------------|--|--------------|
| Spannung <i>Voltage</i> | 6 V – 60 V | Haltestrom <i>Holding current</i> | 300 mA – 2 A | Max. Strom <i>Max. current</i> | 100 A |
|-----------------------------------|-------------------|---|---------------------|--|--------------|



| | |
|---|---|
| Norm / <i>Standard</i> : | Werknorm / <i>Factory standard</i> |
| Anschluss / <i>Connection</i> : | Reines Zinn / <i>Pure tin</i> |
| Betriebstemperatur / <i>Operating temperature</i> : | -40°C bis / <i>to</i> 85°C (De-rating beachten / <i>Consider De-rating</i>) |
| Lötbarkeit / <i>Solderability</i> : | RS 186-9E, ANSI/J-std-002 Cat,3 |
| Verpackungsmöglichkeiten / <i>Packing options</i> : | Auf Anfrage / <i>On request</i> |

Bemessungswerte / Ratings (@ 23°C):

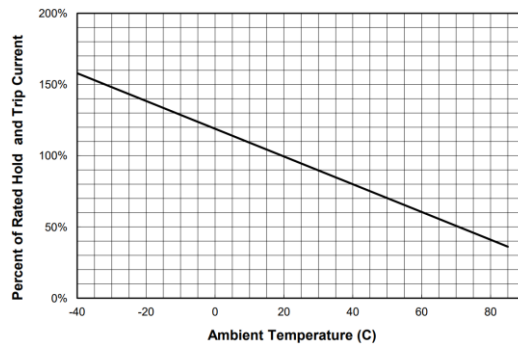
| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD030-2016-R | 300 mA | 60 | 0,60 | 3,0 | 100 | 1,4 | 0,500 | 2,300 |
| FSMD050-2016R | 500 mA | 60 | 1,10 | 5,0 | 100 | 1,4 | 0,450 | 1,000 |
| FSMD075-2016R | 750 mA | 60 | 1,50 | 0,5 | 100 | 1,4 | 0,130 | 0,900 |
| FSMD100-2016R | 1,10 A | 15 | 2,20 | 0,5 | 100 | 1,4 | 0,700 | 0,400 |
| FSMD100-33-2016-R | 1,10 A | 33 | 2,20 | 0,5 | 100 | 1,4 | 0,700 | 0,400 |
| FSMD150-2016-R | 1,50 A | 15 | 3,00 | 0,8 | 100 | 1,4 | 0,050 | 0,180 |
| FSMD200-2016-R | 2,00 A | 6 | 4,20 | 3,0 | 100 | 1,4 | 0,030 | 0,180 |

FSMD030-2016-R, FSMD050-2016R, FSMD150-2016-R bis / *to* FSMD200-2016-R ausschließlich/ *only* UL, C-UL

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



Surface mountable PPTC Rücksetzbar / Resettable

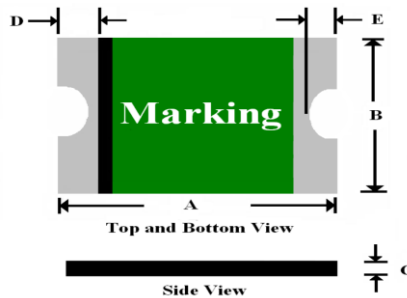
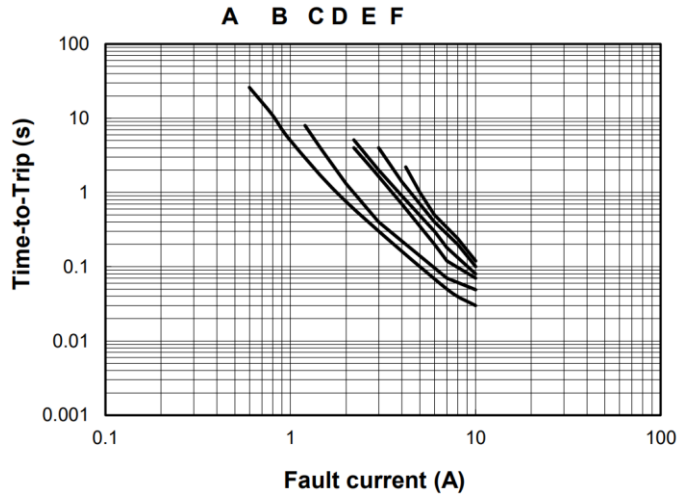


| | | | | | |
|----------------------------|------------|--------------------------------------|--------------|-----------------------------------|-------|
| Spannung Voltage | 6 V – 60 V | Haltestrom Holding current | 300 mA – 2 A | Max. Strom Max. current | 100 A |
|----------------------------|------------|--------------------------------------|--------------|-----------------------------------|-------|

Auslösezeit / Time to trip (@ 23°C):

- A = FSMD030-2016-R D = FSMD100-33-2016-R
- B = FSMD050-2016R E = FSMD150-2016-R
- C = FSMD100-2016-R F = FSMD200-2016-R

→ FSMD075-2016R
= Auf Anfrage / On request



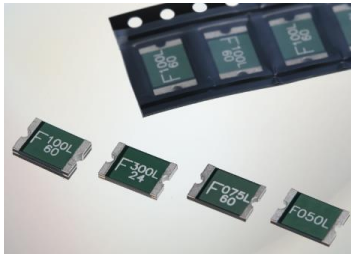
Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|-------------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD030-2016-R | 4,72 | 5,44 | 3,70 | 4,43 | 0,40 | 1,15 | 0,30 | 1,50 | 0,25 | 0,65 |
| FSMD050-2016R | 4,72 | 5,44 | 3,70 | 4,43 | 0,40 | 1,70 | 0,30 | 1,50 | 0,25 | 0,65 |
| FSMD075-2016R | 4,72 | 5,44 | 3,70 | 4,43 | 0,40 | 1,70 | 0,30 | 1,50 | 0,25 | 0,65 |
| FSMD100-2016-R | 4,72 | 5,44 | 3,70 | 4,43 | 0,30 | 0,70 | 0,30 | 1,50 | 0,25 | 0,65 |
| FSMD100-33-2016-R | 4,72 | 5,44 | 3,70 | 4,43 | 0,30 | 0,70 | 0,30 | 1,50 | 0,25 | 0,65 |
| FSMD150-2016-R | 4,72 | 5,44 | 3,70 | 4,43 | 0,25 | 0,65 | 0,30 | 1,50 | 0,25 | 0,65 |
| FSMD200-2016-R | 4,72 | 5,44 | 3,70 | 4,43 | 0,25 | 0,65 | 0,30 | 1,50 | 0,25 | 0,65 |

Surface mountable PPTC Rücksetzbar / Resettable



Spannung 6 V – 60 V **Haltestrom** 300 mA – 5 A **Max. Strom** 100 A
Voltage *Holding current* *Max. current*



Norm / Standard: Werknorm / Factory standard
 Anschluss / Connection: Reines Zinn / Pure tin
 Betriebstemperatur / Operating temperature: -40°C bis / to 85°C
 (De-rating beachten / Consider De-rating)
 Lötbarkeit / Solderability: RS 186-9E, ANSI/J-std-002 Cat,3
 Verpackungsmöglichkeiten / Packing options: Auf Anfrage / On request

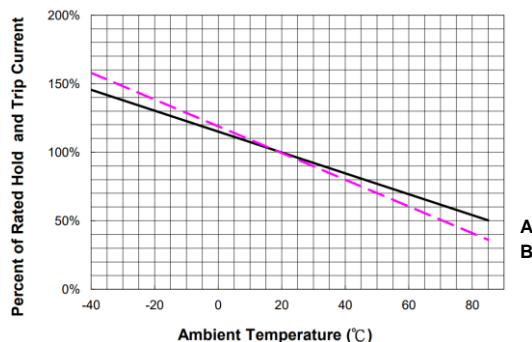
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|-------------------|----------------|--------------------|--------------------|---------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FSMD030-2920-R | 300 mA | 60 | 0,60 | 3,0 | 100 | 1,5 | 1,000 | 4,800 |
| FSMD050-2920-R | 500 mA | 60 | 1,00 | 4,0 | 100 | 1,5 | 0,300 | 1,400 |
| FSMD075-2920-R | 750 mA | 33 | 1,50 | 0,3 | 100 | 1,5 | 0,180 | 1,000 |
| FSMD075-60-2920-R | 750 mA | 60 | 1,50 | 0,3 | 100 | 1,5 | 0,180 | 1,000 |
| FSMD100-2920-R | 1,10 A | 33 | 2,20 | 0,5 | 100 | 1,5 | 0,090 | 0,410 |
| FSMD110-60-2920R | 1,10 A | 60 | 2,00 | 0,5 | 100 | 1,5 | 0,090 | 0,410 |
| FSMD125-2920-R | 1,25 A | 33 | 2,50 | 2,0 | 100 | 1,5 | 0,050 | 0,250 |
| FSMD150-2920-R | 1,50 A | 33 | 3,00 | 2,0 | 100 | 1,5 | 0,050 | 0,230 |
| FSMD185-2920-R | 1,85 A | 33 | 3,70 | 2,5 | 100 | 1,5 | 0,040 | 0,150 |
| FSMD200-2920-R | 2,00 A | 16 | 4,00 | 4,5 | 100 | 1,5 | 0,035 | 0,120 |
| FSMD200-24-2920-R | 2,00 A | 24 | 4,00 | 5,0 | 100 | 1,5 | 0,035 | 0,120 |
| FSMD250-2920-R | 2,50 A | 16 | 5,00 | 16,0 | 100 | 1,5 | 0,025 | 0,085 |
| FSMD260-2920-R | 2,60 A | 6 | 5,20 | 20,0 | 100 | 1,5 | 0,020 | 0,075 |
| FSMD260-24-2920R | 2,60 A | 24 | 5,20 | 20,0 | 100 | 1,5 | 0,020 | 0,075 |
| FSMD300-2920-R | 3,00 A | 6 | 5,20 | 25,0 | 100 | 1,5 | 0,010 | 0,048 |
| FSMD300-15-2920R | 3,00 A | 15 | 5,20 | 20,0 | 100 | 1,5 | 0,010 | 0,048 |
| FSMD300-24-2920R | 3,00 A | 24 | 5,20 | 20,0 | 100 | 1,5 | 0,010 | 0,048 |
| FSMD330-2920R | 3,30 A | 24 | 5,50 | 20,0 | 100 | 1,5 | 0,010 | 0,048 |
| FSMD400-16-2920R | 4,00 A | 16 | 8,00 | 4,0 | 100 | 1,5 | 0,010 | 0,040 |
| FSMD500-16-2920R | 5,00 A | 16 | 10,0 | 5,0 | 100 | 1,5 | 0,005 | 0,025 |

Legende / Caption:

- I_H = Bemessungsstrom / Rated current
- I_T = Auslösestrom / Trip current
- I_{max} = Max. Strom / Max. current
- U_N = Bemessungsspannung / Rated voltage
- t_{Trip_max} = Max. Auslösezeit / Max. time to trip
- P_d = Verlustleistung / Power dissipation
- R = Widerstands-Bereich / Resistance range

De-Rating:



- A = FSMD125-2920-R bis / to FSMD500-16-2920R
- B = FSMD030-16-2920-R bis / to FSMD100-2920-R

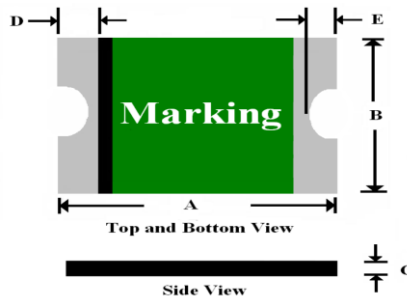
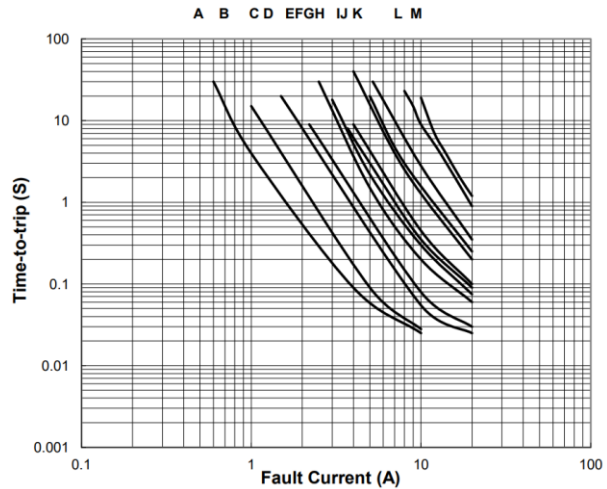
Surface mountable PPTC Rücksetzbar / Resettable



| | | | | | |
|----------------------------|-------------------|--------------------------------------|---------------------|-----------------------------------|--------------|
| Spannung Voltage | 6 V – 60 V | Haltestrom Holding current | 300 mA – 5 A | Max. Strom Max. current | 100 A |
|----------------------------|-------------------|--------------------------------------|---------------------|-----------------------------------|--------------|

Auslösezeit / Time to trip (@ 23°C):

- A = FSMD030-2920-R
- B = FSMD050-2920-R
- C = FSMD075-60-2920-R
- D = FSMD100-2920-R / FSMD110-60-2920-R
- E = FSMD125-2920-R
- F = FSMD150-2920-R
- G = FSMD185-2920-R
- H = FSMD200-2920-R / FSMD200-24-2920-R
- I = FSMD250-2920-R
- J = FSMD260-2920-R / FSMD260-24-2920R
- K = FSMD300-2920-R / FSMD300-15-2920R / FSMD300-24-2920R
- L = FSMD400-16-2920R
- M = FSMD500-16-2920R



Maße / Dimensions [mm]:

| Art. No. | A | | B | | C | | D | | E | |
|-------------------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD030-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,60 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD050-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,60 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD075-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD075-60-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,60 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD100-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 1,00 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD100-60-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 1,70 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD125-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD150-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD185-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,30 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD200-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,30 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD200-24-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,20 | 0,80 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD250-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,30 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD260-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,30 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD260-24-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,65 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD300-2920-R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 0,90 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD300-15-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD300-24-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,65 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD330-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,65 | 1,15 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD400-16-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 1,50 | 0,50 | 1,20 | 0,50 | 0,90 |
| FSMD500-16-2920R | 6,73 | 7,98 | 4,80 | 5,44 | 0,40 | 1,50 | 0,50 | 1,20 | 0,50 | 0,90 |

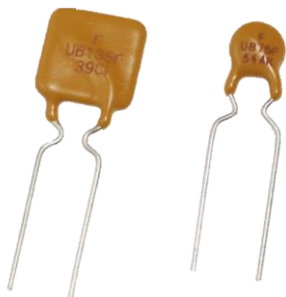
Radial leaded PPTC Rücksetzbar / *Resettable*



Spannung 16 V
Voltage

Haltestrom 750 mA – 2,5 A
Holding current

Max. Strom 40 A
Max. current



Norm / *Standard:*

Werknorm / *Factory standard*

Anschluss / *Connection:*

Kupfer verzinkt / *Tin-plated copper*

Beschichtung / *Coating:*

Isolierende Beschichtung:
Flammenhemmendes Epoxidharz (UL-94V-0) /
Insulating coating:
Flame retardant epoxy (UL-94V-0)

Betriebstemperatur / *Operating temperature:*

-40°C bis / to 85°C
(De-rating beachten / *Consider De-rating*)

Lötbarkeit / *Solderability:*

MIL-STD-202, Method 208E

Verpackungsmöglichkeiten / *Packing options:* Auf Anfrage / *On request*

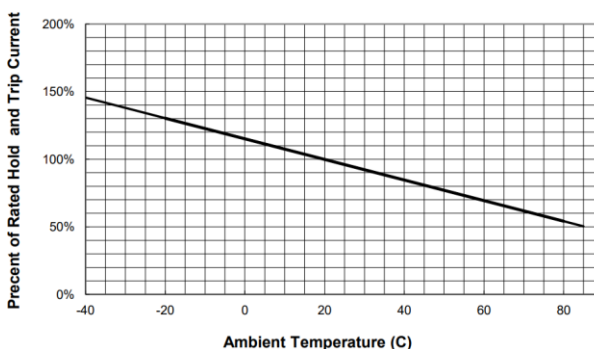
Bemessungswerte / Ratings (@ 23°C):

| Art. No. | I _H | U _N [V] | I _T [A] | t _{Trip_max} @8A [s] | I _{max} [A] | P _d [W] | R [Ω] | |
|----------|----------------|--------------------|--------------------|-------------------------------|----------------------|--------------------|------------------|------------------|
| | | | | | | | R _{Min} | R _{max} |
| FUSB075F | 750 mA | 16 | 1,30 | 0,4 | 40 | 0,3 | 0,08 | 0,23 |
| FUSB090F | 900 mA | 30 | 1,80 | 1,2 | 40 | 0,6 | 0,07 | 0,18 |
| FUSB110F | 1,10 A | 30 | 2,20 | 2,3 | 40 | 0,7 | 0,05 | 0,14 |
| FUSB120F | 1,20 A | 16 | 2,00 | 0,7 | 40 | 0,6 | 0,04 | 0,14 |
| FUSB135F | 1,35 A | 30 | 2,70 | 4,5 | 40 | 0,8 | 0,04 | 0,12 |
| FUSB155F | 1,55 A | 16 | 2,70 | 2,2 | 40 | 0,7 | 0,03 | 0,12 |
| FUSB160F | 1,60 A | 30 | 3,20 | 9,0 | 40 | 0,9 | 0,03 | 0,11 |
| FUSB185F | 1,85 A | 30 | 3,70 | 10,0 | 40 | 1,0 | 0,03 | 0,09 |
| FUSB250F | 2,50 A | 30 | 5,00 | 40,0 | 40 | 1,2 | 0,02 | 0,07 |

Legende / Caption:

- I_H = Bemessungsstrom / *Rated current*
- I_T = Auslösestrom / *Trip current*
- I_{max} = Max. Strom / *Max. current*
- U_N = Bemessungsspannung / *Rated voltage*
- t_{Trip_max} = Max. Auslösezeit / *Max. time to trip*
- P_d = Verlustleistung / *Power dissipation*
- R = Widerstands-Bereich / *Resistance range*

De-Rating:



Radial leaded PPTC Rücksetzbar / *Resettable*



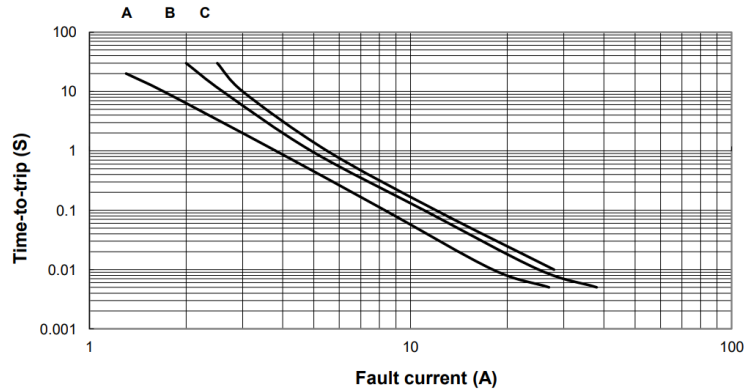
Spannung 16 V
Voltage

Haltestrom 750 mA – 2,5 A
Holding current

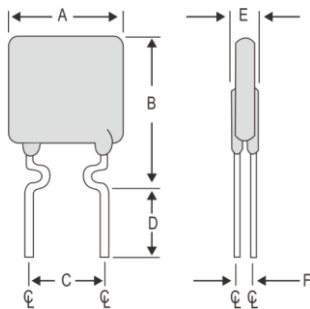
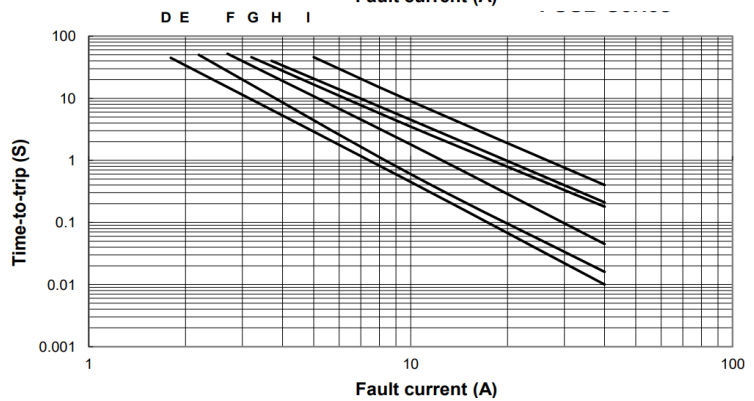
Max. Strom 40 A
Max. current

Auslösezeit / Time to trip (@ 23°C):

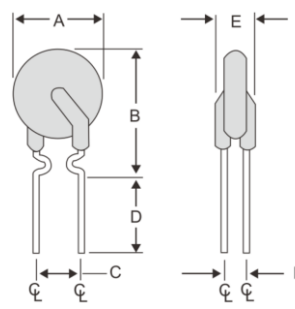
- A = FUSB075F
- B = FUSB120F
- C = FUSB155F



- D = FUSB090F
- E = FUSB110F
- F = FUSB135F
- G = FUSB160F
- H = FUSB185F
- I = FUSB250F



FUSB090F, -110F, -135F, -160F, -185F, -250F
Anschlussgröße / Lead size: 24 AWG (= Ø 0,51 mm)



FUSB075F, -120F, -155F
Anschlussgröße / Lead size: 24 AWG (= Ø 0,51 mm)

Maße / Dimensions [mm]:

| Art, No, | A | B | C | D | E | F |
|----------|------|------|-----|-----|-----|-----|
| FUSB075F | 6,9 | 11,4 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB090F | 7,4 | 12,2 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB110F | 7,4 | 14,2 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB120F | 6,9 | 11,7 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB135F | 8,9 | 13,5 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB155F | 6,9 | 11,7 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB160F | 8,9 | 15,2 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB185F | 10,2 | 15,7 | 5,1 | 7,6 | 3,0 | 0,8 |
| FUSB250F | 11,4 | 18,3 | 5,1 | 7,6 | 3,0 | 0,8 |