

Protistor® size 30 aR

650 to 700VAC

Square Body High-Speed Fuse-Links AC Protection

The 690/700V Protistor® fuse-links provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These square body fuse-links are available in different body sizes, each size having multiple worldwide acceptable mounting styles.

The Protistor® have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors, GTO's and IGBT devices. Fuses are assembled with pure silver, die-cut elements embedded in solidified sand, which helps control arcing characteristics for a lower I^2t and high interrupting rating level. All contact surfaces are silver plated and all hardware is non-magnetic.

Each fuse-link can be equipped with a low voltage trip-indicator which can operate a field mountable microswitch.

Features Benefits

- Multiple body sizes and terminals or blades combination
- aR Class according to IEC 60269-4 and VDE 636-23
- Very low I^2t for improved semiconductor protection
- Ultra fast acting
- Current limiting
- Superior cycling capability

Applications

- Protection of inverters, motor drives, UPS systems and similar 690V or less equipments.

Technical data overview

| | |
|----------------------|-----------------|
| Voltage Range AC | 600 ... 690 VAC |
| Ampere Range (A) | 50 ... 630 A |
| Speed/Characteristic | aR |
| I.R. AC (kA) | 200 kA |
| Product Size | 30 |



Standards

IEC 60269-4 Compliance

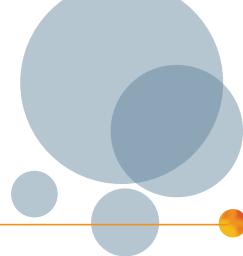
UL/CSA Recognized E76491

CCC GB 13539.4



Protistor® size 30 aR

650 to 700VAC



Product range



PC30UD69V100TF

Size 30 type TTF M8 threaded terminals

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|----------------|------------------|------------------------|-----------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| PC30UD69V50TF | S300373 | 690 V | 700 V | 50 A | 0.116 kA ² s | 0.68 kA ² s | 200 kA | 9 W | 245 g | 3 |
| PC30UD69V63TF | M300000 | 690 V | 700 V | 63 A | 0.2 kA ² s | 1.2 kA ² s | 200 kA | 14 W | 245 g | 3 |
| PC30UD69V80TF | S300051 | 690 V | 700 V | 80 A | 0.33 kA ² s | 1.9 kA ² s | 200 kA | 19 W | 245 g | 3 |
| PC30UD69V100TF | T300052 | 690 V | 700 V | 100 A | 0.47 kA ² s | 2.7 kA ² s | 200 kA | 26 W | 245 g | 3 |
| PC30UD69V125TF | V300053 | 690 V | 700 V | 125 A | 0.85 kA ² s | 4.9 kA ² s | 200 kA | 30 W | 245 g | 3 |
| PC30UD69V160TF | W300054 | 690 V | 700 V | 160 A | 1.6 kA ² s | 9.2 kA ² s | 200 kA | 37 W | 245 g | 3 |
| PC30UD69V200TF | X300055 | 690 V | 700 V | 200 A | 3 kA ² s | 16.7 kA ² s | 200 kA | 42 W | 245 g | 3 |
| PC30UD69V250TF | Y300056 | 690 V | 700 V | 250 A | 5.8 kA ² s | 32.4 kA ² s | 200 kA | 48 W | 245 g | 3 |
| PC30UD69V315TF | Z300057 | 690 V | 700 V | 315 A | 12 kA ² s | 67 kA ² s | 200 kA | 53 W | 245 g | 3 |
| PC30UD69V350TF | A300058 | 690 V | 700 V | 350 A | 15.5 kA ² s | 86 kA ² s | 200 kA | 57 W | 245 g | 3 |
| PC30UD69V400TF | B300059 | 690 V | 700 V | 400 A | 23 kA ² s | 130 kA ² s | 200 kA | 60 W | 245 g | 3 |
| PC30UD69V450TF | V300398 | 690 V | 700 V | 450 A | 26 kA ² s | 165 kA ² s | 200 kA | 80 W | 245 g | 3 |
| PC30UD69V500TF | W300399 | 690 V | 700 V | 500 A | 41 kA ² s | 264 kA ² s | 200 kA | 80 W | 245 g | 3 |
| PC30UD69V550TF | X300400 | 690 V | 700 V | 550 A | 52 kA ² s | 330 kA ² s | 200 kA | 80 W | 245 g | 3 |
| PC30UD60V630TF | L301770 | 600 V | 650 V | 630 A | 84 kA ² s | 450 kA ² s | 200 kA | 85 W | 245 g | 3 |

Size 30 type TTI 5/16"-18 unified coarse threaded terminals

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|----------------|------------------|------------------------|-----------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| A070UD30TTI50 | V302744 | 690 V | 700 V | 50 A | 0.116 kA ² s | 0.68 kA ² s | 200 kA | 9 W | 255 g | 3 |
| A070UD30TTI63 | A301967 | 690 V | 700 V | 63 A | 0.2 kA ² s | 1.2 kA ² s | 200 kA | 14 W | 255 g | 3 |
| A070UD30TTI80 | V301962 | 690 V | 700 V | 80 A | 0.33 kA ² s | 1.9 kA ² s | 200 kA | 19 W | 255 g | 3 |
| A070UD30TTI100 | W300744 | 690 V | 700 V | 100 A | 0.47 kA ² s | 2.7 kA ² s | 200 kA | 26 W | 255 g | 3 |
| A070UD30TTI125 | G300708 | 690 V | 700 V | 125 A | 0.85 kA ² s | 4.9 kA ² s | 200 kA | 30 W | 255 g | 3 |
| A070UD30TTI160 | N300576 | 690 V | 700 V | 160 A | 1.6 kA ² s | 9.2 kA ² s | 200 kA | 37 W | 255 g | 3 |
| A070UD30TTI200 | P300577 | 690 V | 700 V | 200 A | 3 kA ² s | 16.7 kA ² s | 200 kA | 42 W | 255 g | 3 |
| A070UD30TTI250 | Q300578 | 690 V | 700 V | 250 A | 5.8 kA ² s | 32.4 kA ² s | 200 kA | 48 W | 255 g | 3 |
| A070UD30TTI315 | R300579 | 690 V | 700 V | 315 A | 12 kA ² s | 67 kA ² s | 200 kA | 53 W | 255 g | 3 |
| A070UD30TTI350 | S300580 | 690 V | 700 V | 350 A | 15.5 kA ² s | 86 kA ² s | 200 kA | 57 W | 255 g | 3 |
| A070UD30TTI400 | T300581 | 690 V | 700 V | 400 A | 23 kA ² s | 130 kA ² s | 200 kA | 60 W | 255 g | 3 |
| A070UD30TTI450 | V300582 | 690 V | 700 V | 450 A | 26 kA ² s | 165 kA ² s | 200 kA | 80 W | 255 g | 3 |
| A070UD30TTI500 | W300583 | 690 V | 700 V | 500 A | 41 kA ² s | 264 kA ² s | 200 kA | 80 W | 255 g | 3 |
| A070UD30TTI550 | X300584 | 690 V | 700 V | 550 A | 52 kA ² s | 330 kA ² s | 200 kA | 80 W | 255 g | 3 |
| A065UD30TTI630 | A302703 | 600 V | 650 V | 630 A | 84 kA ² s | 450 kA ² s | 200 kA | 85 W | 255 g | 3 |

Protistor® size 30 aR

650 to 700VAC

Product range



PC30UD69V160A

Size 30 type DIN80 blades

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|----------------|------------------|------------------------|-----------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| PC30UD69V50A | F301926 | 690 V | 700 V | 50 A | 0.116 kA ² s | 0.68 kA ² s | 200 kA | 9 W | 275 g | 3 |
| PC30UD69V63A | E300108 | 690 V | 700 V | 63 A | 0.2 kA ² s | 1.2 kA ² s | 200 kA | 14 W | 275 g | 3 |
| PC30UD69V80A | F300109 | 690 V | 700 V | 80 A | 0.33 kA ² s | 1.9 kA ² s | 200 kA | 19 W | 275 g | 3 |
| PC30UD69V100A | G300110 | 690 V | 700 V | 100 A | 0.47 kA ² s | 2.7 kA ² s | 200 kA | 26 W | 275 g | 3 |
| PC30UD69V125A | H300111 | 690 V | 700 V | 125 A | 0.85 kA ² s | 4.9 kA ² s | 200 kA | 30 W | 275 g | 3 |
| PC30UD69V160A | J300112 | 690 V | 700 V | 160 A | 1.6 kA ² s | 9.2 kA ² s | 200 kA | 37 W | 275 g | 3 |
| PC30UD69V200A | K300113 | 690 V | 700 V | 200 A | 3 kA ² s | 16.7 kA ² s | 200 kA | 43 W | 275 g | 3 |
| PC30UD69V250A | L300114 | 690 V | 700 V | 250 A | 5.8 kA ² s | 32.4 kA ² s | 200 kA | 50 W | 275 g | 3 |
| PC30UD69V315A | M300115 | 690 V | 700 V | 315 A | 12 kA ² s | 67 kA ² s | 200 kA | 55 W | 275 g | 3 |
| PC30UD69V350A | N300116 | 690 V | 700 V | 350 A | 15.5 kA ² s | 86 kA ² s | 200 kA | 60 W | 275 g | 3 |
| PC30UD69V400A | P300117 | 690 V | 700 V | 400 A | 23 kA ² s | 130 kA ² s | 200 kA | 65 W | 275 g | 3 |
| PC30UD69V450A | A300403 | 690 V | 700 V | 450 A | 26 kA ² s | 165 kA ² s | 200 kA | 88 W | 275 g | 3 |
| PC30UD69V500A | B300404 | 690 V | 700 V | 500 A | 41 kA ² s | 264 kA ² s | 200 kA | 88 W | 275 g | 3 |
| PC30UD69V550A | C300405 | 690 V | 700 V | 550 A | 52 kA ² s | 330 kA ² s | 200 kA | 90 W | 275 g | 3 |



PC30UD69V450D1A

Size 30 type DIN110 blades

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|-----------------|------------------|------------------------|-----------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| PC30UD69V50D1A | G301191 | 690 V | 700 V | 50 A | 0.116 kA ² s | 0.68 kA ² s | 200 kA | 9 W | 298 g | 3 |
| PC30UD69V63D1A | Q300118 | 690 V | 700 V | 63 A | 0.2 kA ² s | 1.2 kA ² s | 200 kA | 14 W | 298 g | 3 |
| PC30UD69V80D1A | R300119 | 690 V | 700 V | 80 A | 0.33 kA ² s | 1.9 kA ² s | 200 kA | 19 W | 298 g | 3 |
| PC30UD69V100D1A | S300120 | 690 V | 700 V | 100 A | 0.47 kA ² s | 2.7 kA ² s | 200 kA | 26 W | 298 g | 3 |
| PC30UD69V125D1A | T300121 | 690 V | 700 V | 125 A | 0.85 kA ² s | 4.9 kA ² s | 200 kA | 30 W | 298 g | 3 |
| PC30UD69V160D1A | V300122 | 690 V | 700 V | 160 A | 1.6 kA ² s | 9.2 kA ² s | 200 kA | 37 W | 298 g | 3 |
| PC30UD69V200D1A | W300123 | 690 V | 700 V | 200 A | 3 kA ² s | 16.7 kA ² s | 200 kA | 43 W | 298 g | 3 |
| PC30UD69V250D1A | X300124 | 690 V | 700 V | 250 A | 5.8 kA ² s | 32.4 kA ² s | 200 kA | 50 W | 298 g | 3 |
| PC30UD69V315D1A | Y300125 | 690 V | 700 V | 315 A | 12 kA ² s | 67 kA ² s | 200 kA | 55 W | 298 g | 3 |
| PC30UD69V350D1A | Z300126 | 690 V | 700 V | 350 A | 15.5 kA ² s | 86 kA ² s | 200 kA | 60 W | 298 g | 3 |
| PC30UD69V400D1A | A300127 | 690 V | 700 V | 400 A | 23 kA ² s | 130 kA ² s | 200 kA | 65 W | 298 g | 3 |
| PC30UD69V450D1A | S300695 | 690 V | 700 V | 450 A | 26 kA ² s | 165 kA ² s | 200 kA | 88 W | 298 g | 3 |
| PC30UD69V500D1A | Y301091 | 690 V | 700 V | 500 A | 41 kA ² s | 264 kA ² s | 200 kA | 88 W | 298 g | 3 |
| PC30UD69V550D1A | Z301092 | 690 V | 700 V | 550 A | 52 kA ² s | 330 kA ² s | 200 kA | 90 W | 298 g | 3 |

Size 30 type KI short slotted blades

| Catalog number | Reference number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I _n | Pre-arcing I ² t | Clearing I ² t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I _n | Weight | Package |
|----------------|------------------|------------------------|-----------------------|------------------------------|-----------------------------|--|----------------------------|-------------------------------------|--------|---------|
| A070UD30KI350 | W300146 | 690 V | 700 V | 350 A | 15.5 kA ² s | 86 kA ² s | 200 kA | 60 W | 320 g | 3 |
| A070UD30KI400 | X300147 | 690 V | 700 V | 400 A | 23 kA ² s | 130 kA ² s | 200 kA | 65 W | 320 g | 3 |
| A070UD30KI50 | E301925 | 690 V | 700 V | 50 A | 0.116 kA ² s | 0.68 kA ² s | 200 kA | 9 W | 290 g | 3 |
| A070UD30KI630 | B300128 | 690 V | 700 V | 63 A | 0.2 kA ² s | 1.2 kA ² s | 200 kA | 14 W | 290 g | 3 |
| A070UD30KI80 | C300129 | 690 V | 700 V | 80 A | 0.33 kA ² s | 1.9 kA ² s | 200 kA | 19 W | 290 g | 3 |
| A070UD30KI100 | D300130 | 690 V | 700 V | 100 A | 0.47 kA ² s | 2.7 kA ² s | 200 kA | 26 W | 290 g | 3 |
| A070UD30KI125 | E300131 | 690 V | 700 V | 125 A | 0.85 kA ² s | 4.9 kA ² s | 200 kA | 30 W | 290 g | 3 |
| A070UD30KI160 | F300132 | 690 V | 700 V | 160 A | 1.6 kA ² s | 9.2 kA ² s | 200 kA | 37 W | 290 g | 3 |
| A070UD30KI200 | G300133 | 690 V | 700 V | 200 A | 3 kA ² s | 16.7 kA ² s | 200 kA | 43 W | 290 g | 3 |
| A070UD30KI250 | H300134 | 690 V | 700 V | 250 A | 5.8 kA ² s | 32.4 kA ² s | 200 kA | 50 W | 290 g | 3 |
| A070UD30KI315 | J300135 | 690 V | 700 V | 315 A | 12 kA ² s | 67 kA ² s | 200 kA | 55 W | 290 g | 3 |
| A070UD30KI350 | K300136 | 690 V | 700 V | 350 A | 15.5 kA ² s | 86 kA ² s | 200 kA | 60 W | 290 g | 3 |

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