

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## SEMICONDUCTOR PROTECTION FUSES

## 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 aR ultra-fast acting square body fuse-links are available in different body sizes, each size having multiple worldwide acceptable mounting styles.

They have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors and IGBT devices. They are assembled with 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.

## TECHNICAL DATA OVERVIEW

|                      |               |
|----------------------|---------------|
| Voltage AC           | 690 VAC       |
| Ampere Range (A)     | 160 ... 800 A |
| Speed/Characteristic | aR            |
| I.R. AC (IEC)        | 170 kA        |
| Product Size         | 31            |

## 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.

## STANDARDS

- IEC 60269.4 Compliance
- UL/CSA Recognized E76491
- CCC GB 1539.4



# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## PRODUCT RANGE



PC31UD69V800TF

### Size 31 type TTF M8 threaded terminals

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight    | Package |
|----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|-----------|---------|
| PC31UD69V160TF | M300299     | 690 V                  | 700 V                 | 160 A                        | 1300 A <sup>2</sup> s       | 7700 A <sup>2</sup> s                      | 170 kA                     | 35 W                                | 0.3786 kg | 3       |
| PC31UD69V200TF | N300001     | 690 V                  | 700 V                 | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 0.3786 kg | 3       |
| PC31UD69V250TF | P300002     | 690 V                  | 700 V                 | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.3826 kg | 3       |
| PC31UD69V315TF | Q300003     | 690 V                  | 700 V                 | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.3826 kg | 3       |
| PC31UD69V350TF | M300046     | 690 V                  | 700 V                 | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.3826 kg | 3       |
| PC31UD69V400TF | R300004     | 690 V                  | 700 V                 | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.3826 kg | 3       |
| PC31UD69V450TF | S300005     | 690 V                  | 700 V                 | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.3826 kg | 3       |
| PC31UD69V500TF | T300006     | 690 V                  | 700 V                 | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.3826 kg | 3       |
| PC31UD69V550TF | V300007     | 690 V                  | 700 V                 | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.3786 kg | 3       |
| PC31UD69V630TF | W300008     | 690 V                  | 700 V                 | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.3826 kg | 3       |
| PC31UD69V700TF | X300009     | 690 V                  | 700 V                 | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.3826 kg | 3       |
| PC31UD69V800TF | Y300401     | 690 V                  | 700 V                 | 800 A                        | 140000 A <sup>2</sup> s     | 880000 A <sup>2</sup> s                    | 170 kA                     | 105 W                               | 0.3786 kg | 3       |



A070UD31TTI800

### Size 31 type TTI 5/16"-18 unified coarse threaded terminals

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight   | Package |
|----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|----------|---------|
| A070UD31TTI200 | A300472     | 690 V                  | 700                   | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 0.385 kg | 3       |
| A070UD31TTI250 | B300473     | 690 V                  | 700                   | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.385 kg | 3       |
| A070UD31TTI315 | C300474     | 690 V                  | 700                   | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.385 kg | 3       |
| A070UD31TTI350 | D300475     | 690 V                  | 700                   | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.385 kg | 3       |
| A070UD31TTI400 | E300476     | 690 V                  | 700                   | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.385 kg | 3       |
| A070UD31TTI450 | F300477     | 690 V                  | 700                   | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.385 kg | 3       |
| A070UD31TTI500 | G300478     | 690 V                  | 700                   | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.385 kg | 3       |
| A070UD31TTI550 | H300479     | 690 V                  | 700                   | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.385 kg | 3       |
| A070UD31TTI630 | J300480     | 690 V                  | 700                   | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.385 kg | 3       |
| A070UD31TTI700 | K300481     | 690 V                  | 700                   | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.385 kg | 3       |
| A070UD31TTI800 | L300482     | 690 V                  | 700                   | 800 A                        | 140000 A <sup>2</sup> s     | 880000 A <sup>2</sup> s                    | 170 kA                     | 105 W                               | 0.385 kg | 3       |

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## PRODUCT RANGE



PC31UD69V800A

### Size 31 type DIN80 blades

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight    | Package |
|----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|-----------|---------|
| PC31UD69V160A  | M300322     | 690 V                  | 700 V                 | 160 A                        | 1300 A <sup>2</sup> s       | 7700 A <sup>2</sup> s                      | 170 kA                     | 35 W                                | 0.3866 kg | 3       |
| PC31UD69V200A  | Y300010     | 690 V                  | 700 V                 | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 0.3866 kg | 3       |
| PC31UD69V250A  | Z300011     | 690 V                  | 700 V                 | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.3866 kg | 3       |
| PC31UD69V315A  | A300012     | 690 V                  | 700 V                 | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.3866 kg | 3       |
| PC31UD69V350A  | Q300049     | 690 V                  | 700 V                 | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.3866 kg | 3       |
| PC31UD69V400A  | B300013     | 690 V                  | 700 V                 | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.3866 kg | 3       |
| PC31UD69V450A  | C300014     | 690 V                  | 700 V                 | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.3866 kg | 3       |
| PC31UD69V500A  | D300015     | 690 V                  | 700 V                 | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 72 W                                | 0.3866 kg | 3       |
| PC31UD69V550A  | E300016     | 690 V                  | 700 V                 | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.3866 kg | 3       |
| PC31UD69V630A  | F300017     | 690 V                  | 700 V                 | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.3866 kg | 3       |
| PC31UD69V700A  | G300018     | 690 V                  | 700 V                 | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 95 W                                | 0.3866 kg | 3       |
| PC31UD69V800A  | D300406     | 690 V                  | 700 V                 | 800 A                        | 140000 A <sup>2</sup> s     | 880000 A <sup>2</sup> s                    | 170 kA                     | 120 W                               | 0.3866 kg | 3       |

### Size 31 type DIN110 blades

| Catalog number  | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight    | Package |
|-----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|-----------|---------|
| PC31UD69V200D1A | H300019     | 690 V                  | 700 V                 | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 0.4143 kg | 3       |
| PC31UD69V250D1A | J300020     | 690 V                  | 700 V                 | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.4143 kg | 3       |
| PC31UD69V315D1A | K300021     | 690 V                  | 700 V                 | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.4143 kg | 3       |
| PC31UD69V350D1A | P300048     | 690 V                  | 700 V                 | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.4143 kg | 3       |
| PC31UD69V400D1A | L300022     | 690 V                  | 700 V                 | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.4143 kg | 3       |
| PC31UD69V450D1A | M300023     | 690 V                  | 700 V                 | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.4143 kg | 3       |
| PC31UD69V500D1A | N300024     | 690 V                  | 700 V                 | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 72 W                                | 0.4143 kg | 3       |
| PC31UD69V550D1A | P300025     | 690 V                  | 700 V                 | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.4143 kg | 3       |
| PC31UD69V630D1A | Q300026     | 690 V                  | 700 V                 | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.4143 kg | 3       |
| PC31UD69V700D1A | R300027     | 690 V                  | 700 V                 | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 95 W                                | 0.4143 kg | 3       |
| PC31UD69V800D1A | H300709     | 690 V                  | 700 V                 | 800 A                        | 140000 A <sup>2</sup> s     | 880000 A <sup>2</sup> s                    | 170 kA                     | 120 W                               | 0.4143 kg | 3       |

### Size 31 type KI short slotted blades

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight   | Package |
|----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|----------|---------|
| A070UD31KI160  | F300385     | 690 V                  | 700 V                 | 160 A                        | 1300 A <sup>2</sup> s       | 7700 A <sup>2</sup> s                      | 170 kA                     | 35 W                                | 0.401 kg | 3       |
| A070UD31KI200  | S300028     | 690 V                  | 700 V                 | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 0.401 kg | 3       |
| A070UD31KI250  | T300029     | 690 V                  | 700 V                 | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.401 kg | 3       |
| A070UD31KI315  | V300030     | 690 V                  | 700 V                 | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.401 kg | 3       |
| A070UD31KI350  | R300050     | 690 V                  | 700 V                 | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.401 kg | 3       |
| A070UD31KI400  | W300031     | 690 V                  | 700 V                 | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.401 kg | 3       |
| A070UD31KI450  | X300032     | 690 V                  | 700 V                 | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.401 kg | 3       |
| A070UD31KI500  | Y300033     | 690 V                  | 700 V                 | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 72 W                                | 0.401 kg | 3       |
| A070UD31KI550  | Z300034     | 690 V                  | 700 V                 | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.401 kg | 3       |
| A070UD31KI630  | A300035     | 690 V                  | 700 V                 | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.401 kg | 3       |
| A070UD31KI700  | B300036     | 690 V                  | 700 V                 | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 95 W                                | 0.401 kg | 3       |
| A070UD31KI800  | A301070     | 690 V                  | 700 V                 | 800 A                        | 140000 A <sup>2</sup> s     | 880000 A <sup>2</sup> s                    | 170 kA                     | 120 W                               | 0.401 kg | 3       |

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## PRODUCT RANGE



A070UD31LI800

### Size 31 type LI long slotted blades

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight    | Package |
|----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|-----------|---------|
| A070UD31LI200  | V300697     | 690 V                  | 700 V                 | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 420 g     | 3       |
| A070UD31LI250  | W300698     | 690 V                  | 700 V                 | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.4173 kg | 3       |
| A070UD31LI315  | X300699     | 690 V                  | 700 V                 | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.4173 kg | 3       |
| A070UD31LI350  | Y300700     | 690 V                  | 700 V                 | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.4173 kg | 3       |
| A070UD31LI400  | Z300701     | 690 V                  | 700 V                 | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.4173 kg | 3       |
| A070UD31LI450  | A300702     | 690 V                  | 700 V                 | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.4173 kg | 3       |
| A070UD31LI500  | B300703     | 690 V                  | 700 V                 | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 72 W                                | 0.4173 kg | 3       |
| A070UD31LI550  | C300704     | 690 V                  | 700 V                 | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.4173 kg | 3       |
| A070UD31LI630  | D300705     | 690 V                  | 700 V                 | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.4173 kg | 3       |
| A070UD31LI700  | E300706     | 690 V                  | 700 V                 | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 95 W                                | 0.4173 kg | 3       |
| A070UD31LI800  | F300707     | 690 V                  | 700 V                 | 800 A                        | 140000 A <sup>2</sup> s     | 880000 A <sup>2</sup> s                    | 170 kA                     | 120 W                               | 0.4173 kg | 3       |

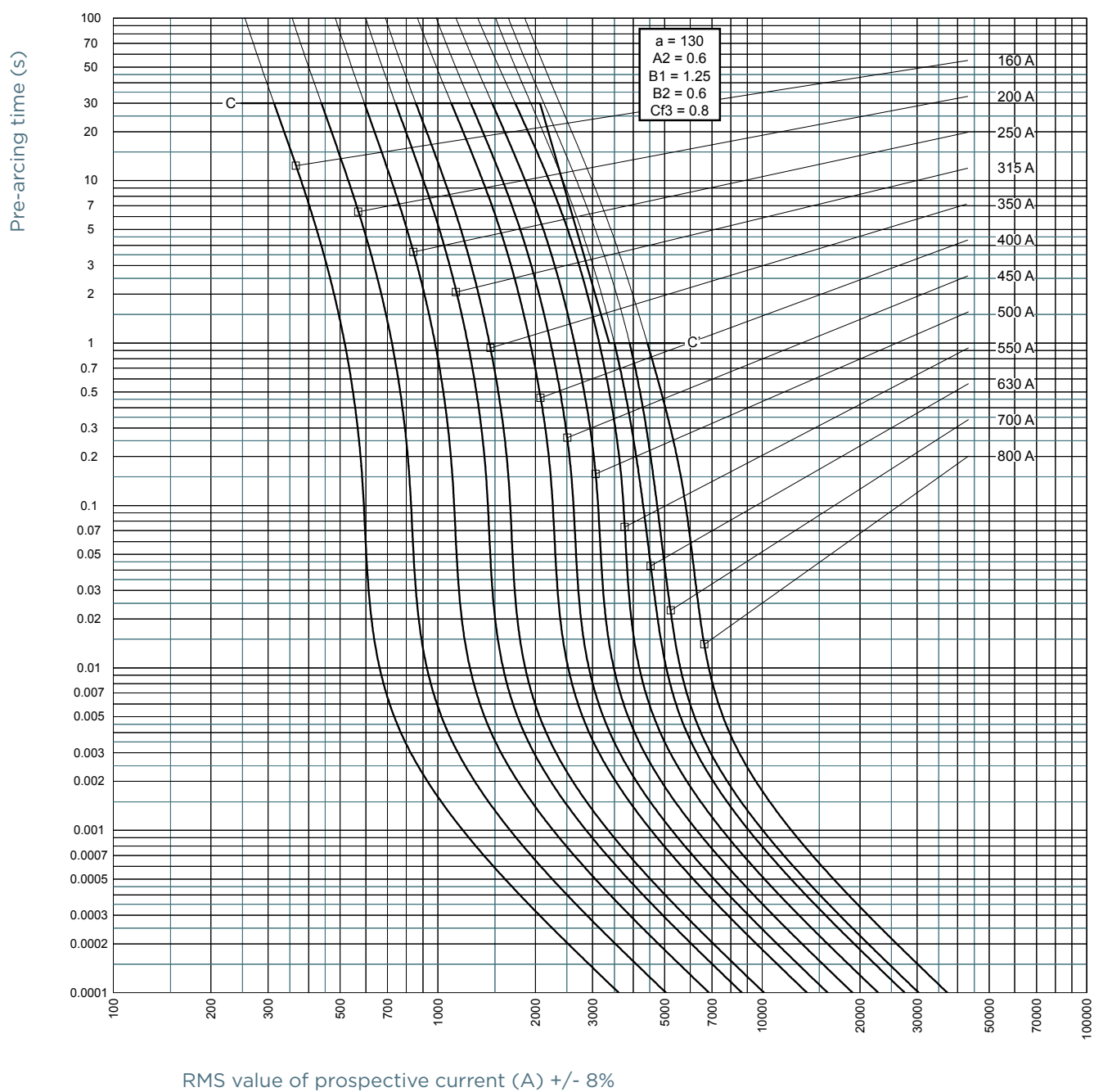


PC31UD69V700EF

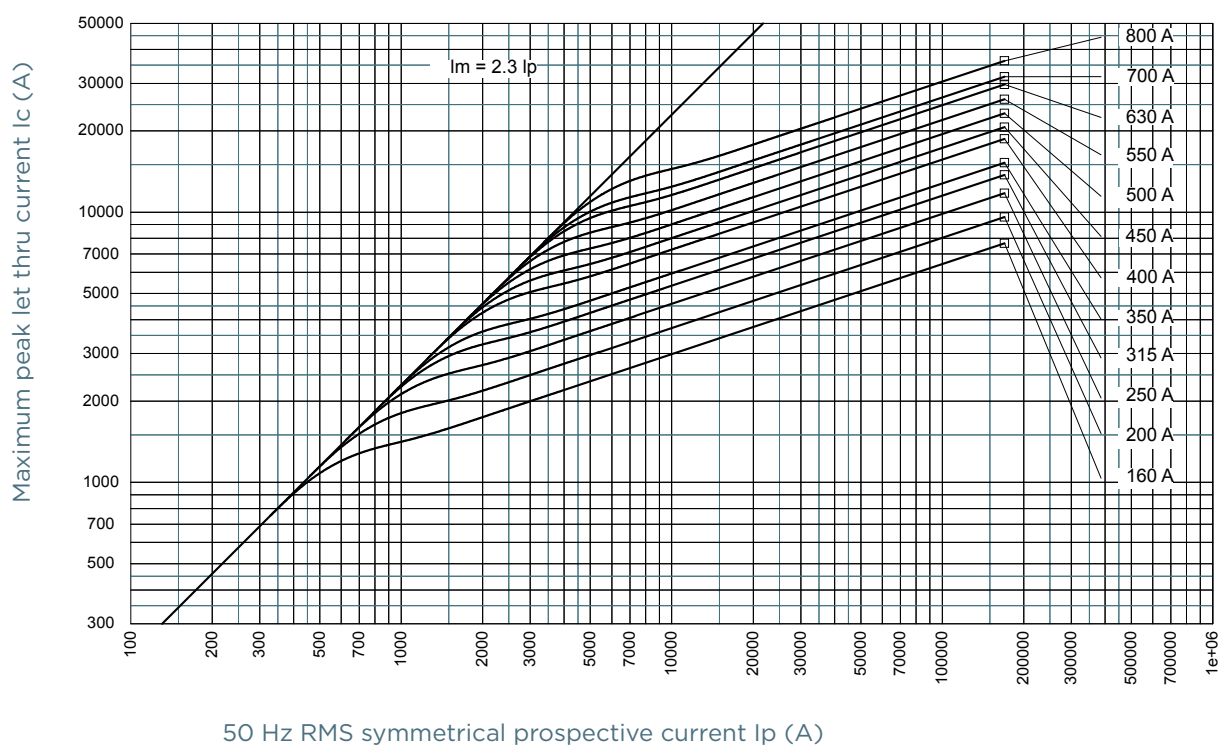
### Size 31 for type EF blade bolted connections

| Catalog number | Item number | Rated voltage AC (IEC) | Rated voltage AC (UL) | Rated current I <sub>n</sub> | Pre-arcing I <sup>2</sup> t | Clearing I <sup>2</sup> t at Rated Voltage | Rated breaking capacity AC | Power dissipation at I <sub>n</sub> | Weight    | Package |
|----------------|-------------|------------------------|-----------------------|------------------------------|-----------------------------|--------------------------------------------|----------------------------|-------------------------------------|-----------|---------|
| PC31UD69V160EF | B301922     | 690 V                  | 700 V                 | 160 A                        | 1300 A <sup>2</sup> s       | 7700 A <sup>2</sup> s                      | 170 kA                     | 35 W                                | 430 g     | 3       |
| PC31UD69V200EF | C300037     | 690 V                  | 700 V                 | 200 A                        | 2600 A <sup>2</sup> s       | 15000 A <sup>2</sup> s                     | 170 kA                     | 45 W                                | 0.4043 kg | 3       |
| PC31UD69V250EF | D300038     | 690 V                  | 700 V                 | 250 A                        | 4700 A <sup>2</sup> s       | 28000 A <sup>2</sup> s                     | 170 kA                     | 52 W                                | 0.4043 kg | 3       |
| PC31UD69V315EF | E300039     | 690 V                  | 700 V                 | 315 A                        | 7500 A <sup>2</sup> s       | 44000 A <sup>2</sup> s                     | 170 kA                     | 65 W                                | 0.4043 kg | 3       |
| PC31UD69V350EF | N300047     | 690 V                  | 700 V                 | 350 A                        | 10300 A <sup>2</sup> s      | 61000 A <sup>2</sup> s                     | 170 kA                     | 67 W                                | 0.4043 kg | 3       |
| PC31UD69V400EF | F300040     | 690 V                  | 700 V                 | 400 A                        | 19000 A <sup>2</sup> s      | 110000 A <sup>2</sup> s                    | 170 kA                     | 68 W                                | 0.4043 kg | 3       |
| PC31UD69V450EF | G300041     | 690 V                  | 700 V                 | 450 A                        | 26500 A <sup>2</sup> s      | 155000 A <sup>2</sup> s                    | 170 kA                     | 70 W                                | 0.4043 kg | 3       |
| PC31UD69V500EF | H300042     | 690 V                  | 700 V                 | 500 A                        | 37000 A <sup>2</sup> s      | 215000 A <sup>2</sup> s                    | 170 kA                     | 72 W                                | 0.4043 kg | 3       |
| PC31UD69V550EF | J300043     | 690 V                  | 700 V                 | 550 A                        | 52000 A <sup>2</sup> s      | 310000 A <sup>2</sup> s                    | 170 kA                     | 75 W                                | 0.4043 kg | 3       |
| PC31UD69V630EF | K300044     | 690 V                  | 700 V                 | 630 A                        | 75000 A <sup>2</sup> s      | 430000 A <sup>2</sup> s                    | 170 kA                     | 85 W                                | 0.4043 kg | 3       |
| PC31UD69V700EF | L300045     | 690 V                  | 700 V                 | 700 A                        | 95000 A <sup>2</sup> s      | 540000 A <sup>2</sup> s                    | 170 kA                     | 95 W                                | 0.4043 kg | 3       |

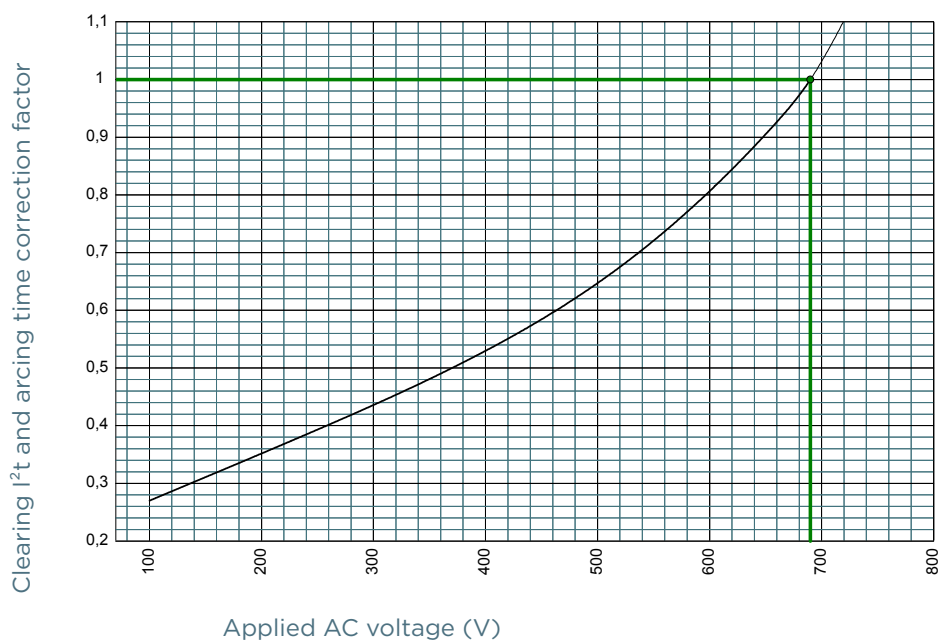
## TIME CURRENT CHARACTERISTIC CURVES



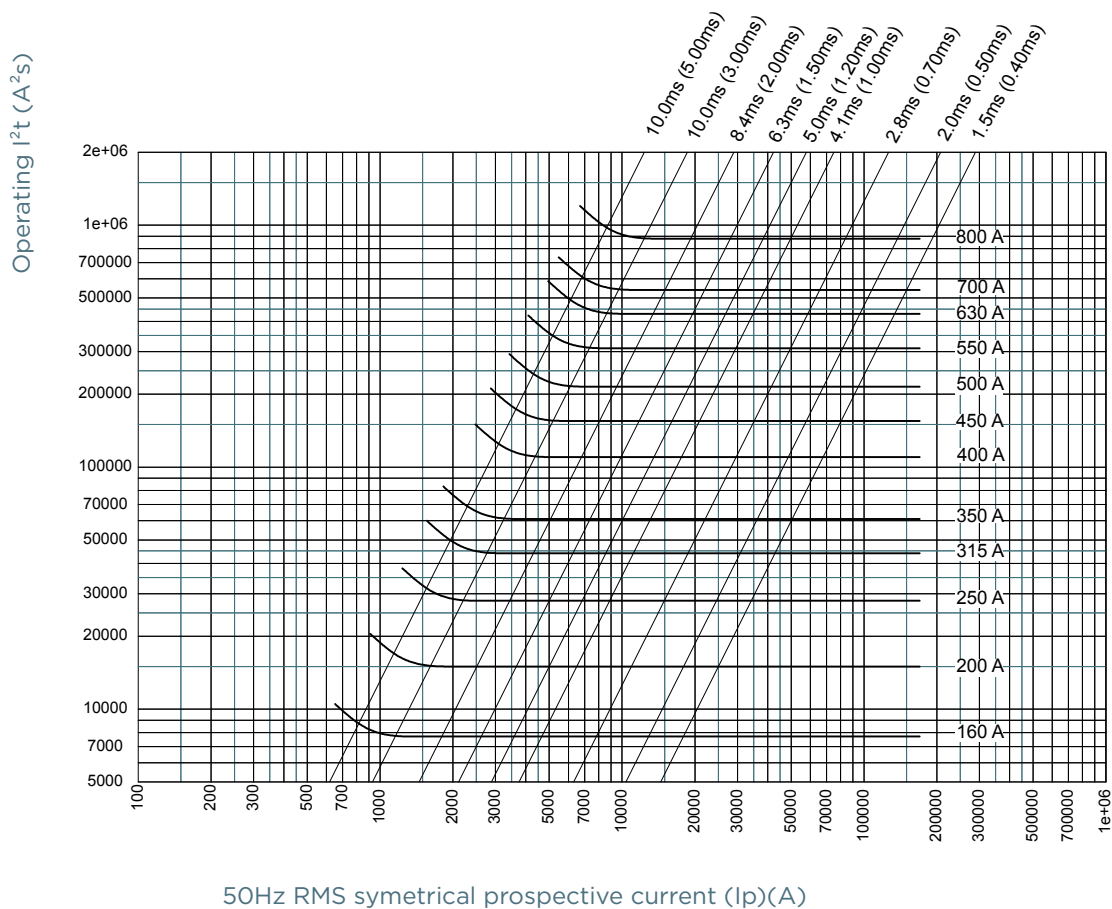
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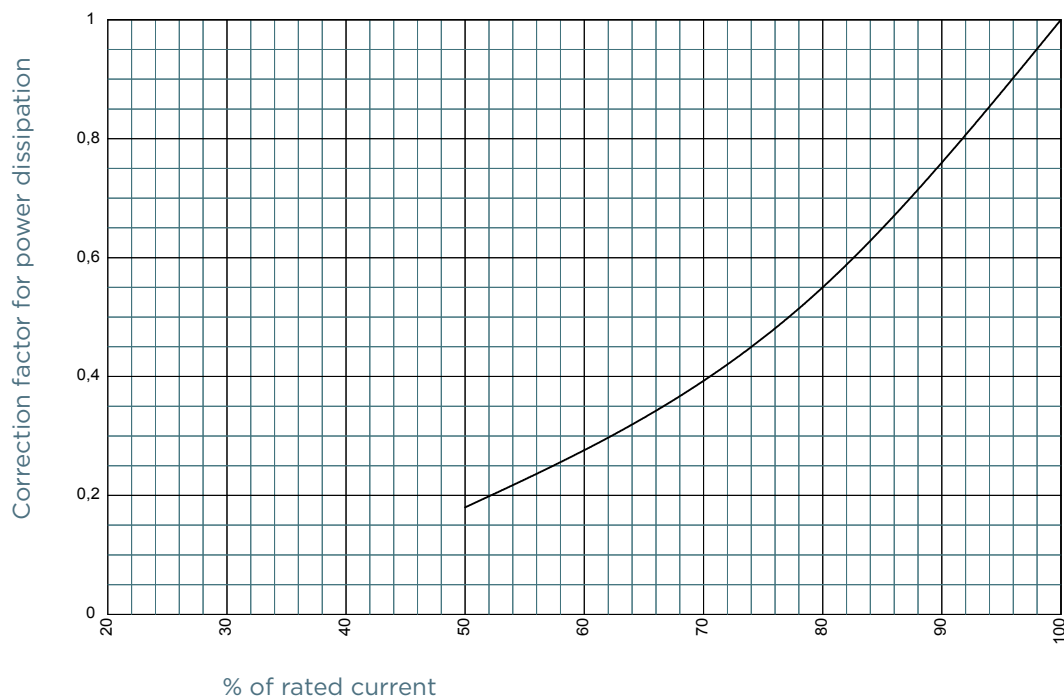
## $I^2t$ MULTIPLIER COEFFICIENT



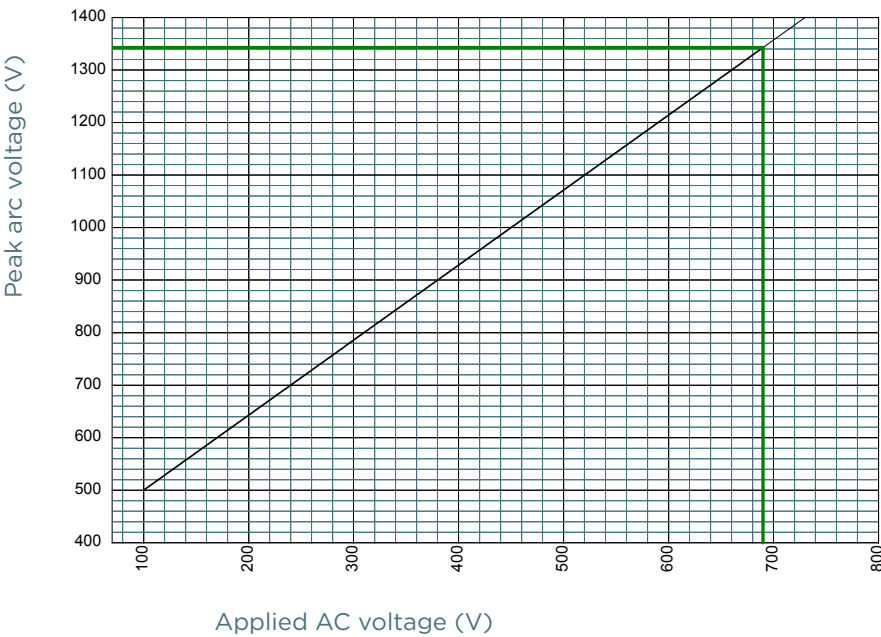
## CHARACTERISTICS TOTAL I<sup>2</sup>T CURVE



## POWER DISSIPATION



PEAK ARC VOLTAGE

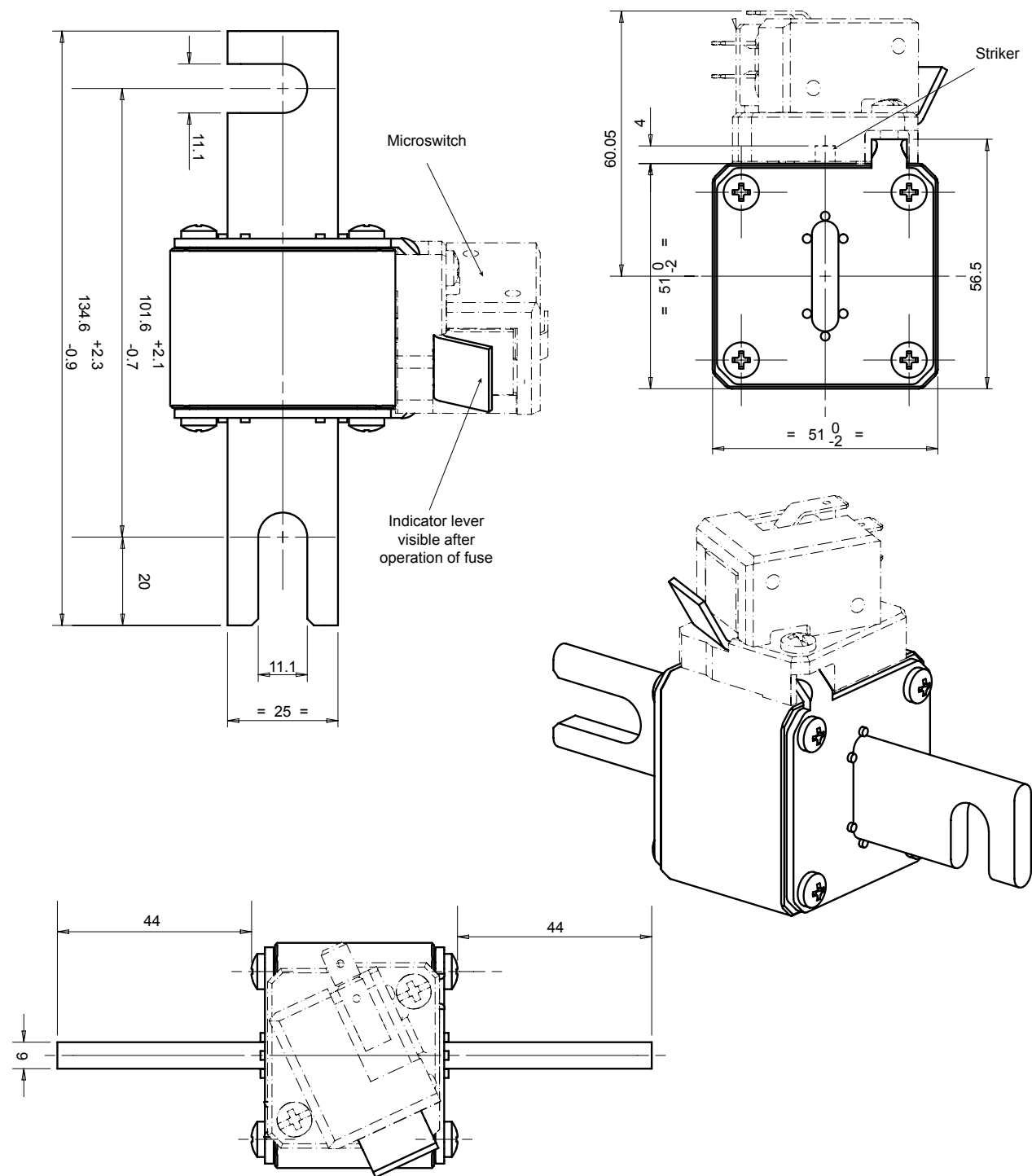


# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## DIMENSIONS

### Size 31 type DIN 110



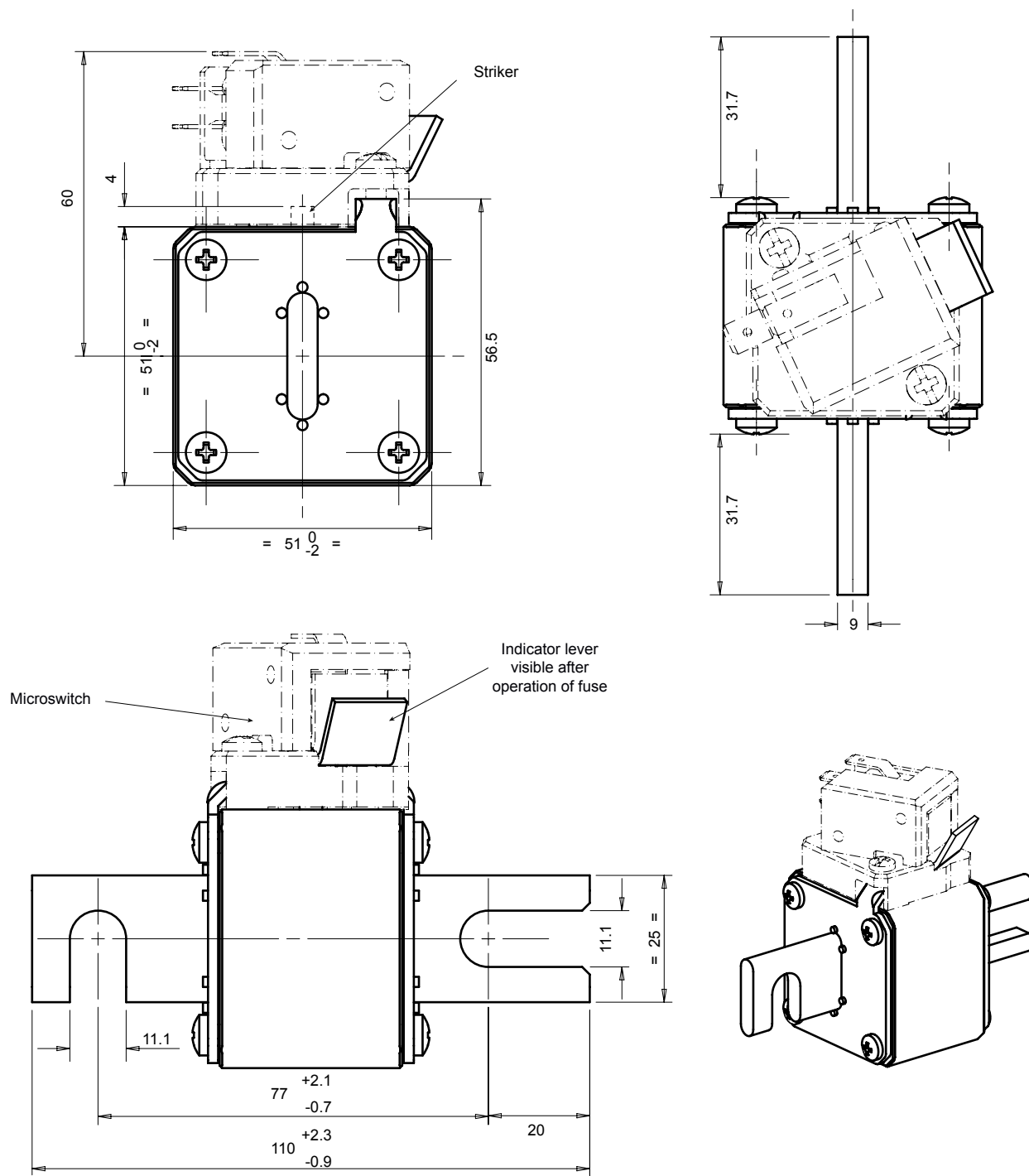
Dimensions in mm

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## DIMENSIONS

### Size 31 type DIN 80



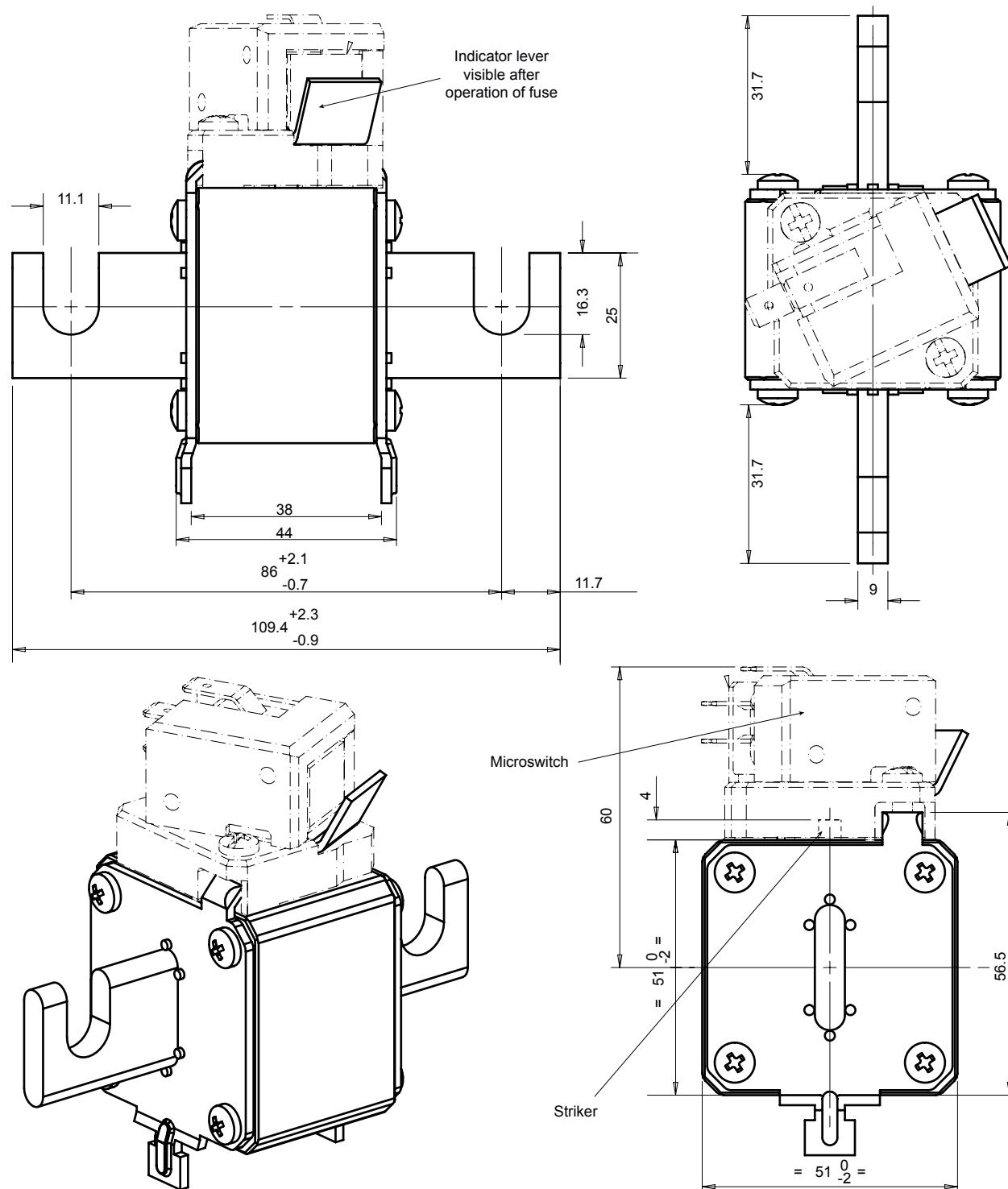
Dimensions in mm

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## DIMENSIONS

### Size 31 type EF



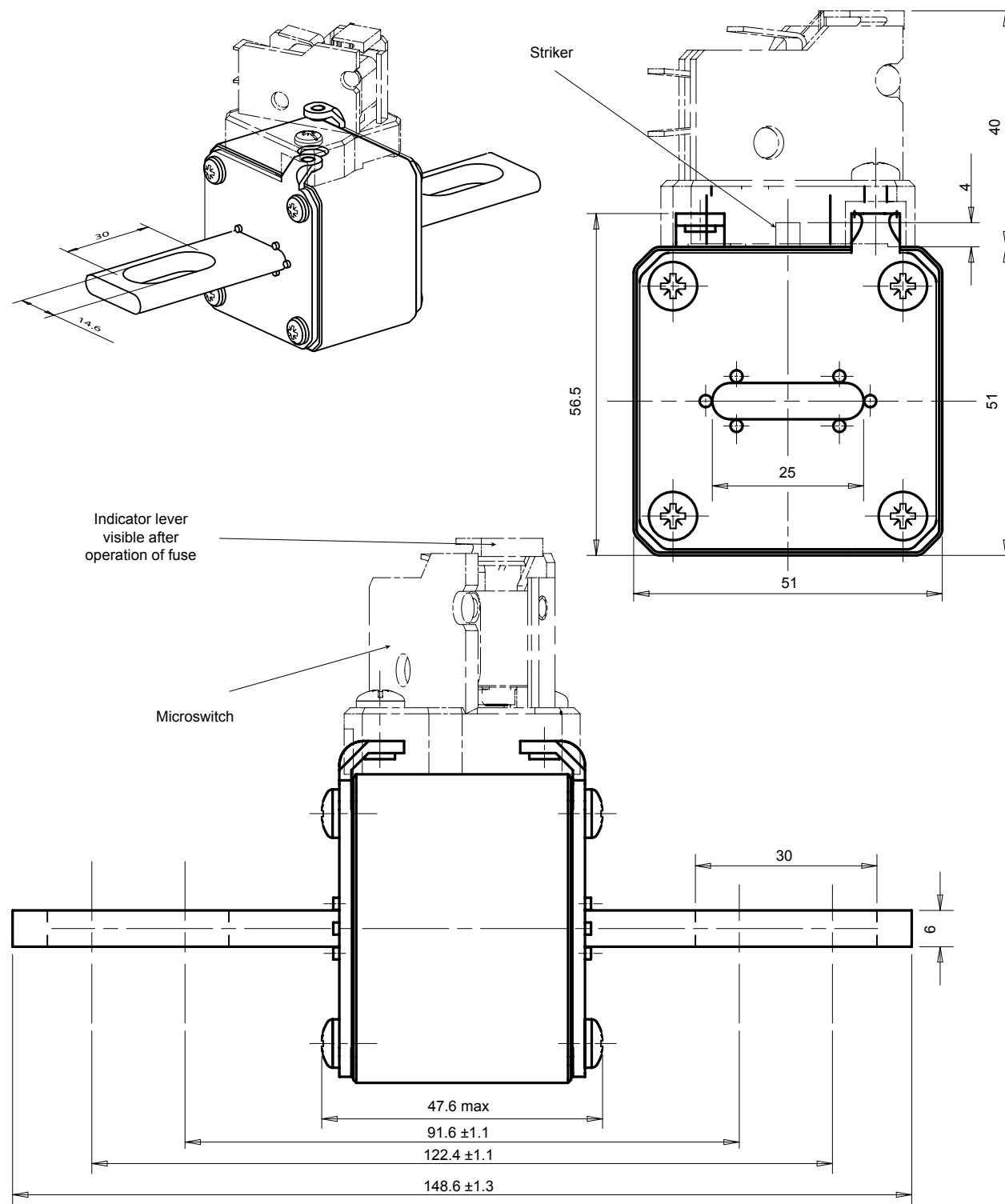
Dimensions in mm

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## DIMENSIONS

### Size 31 type LI



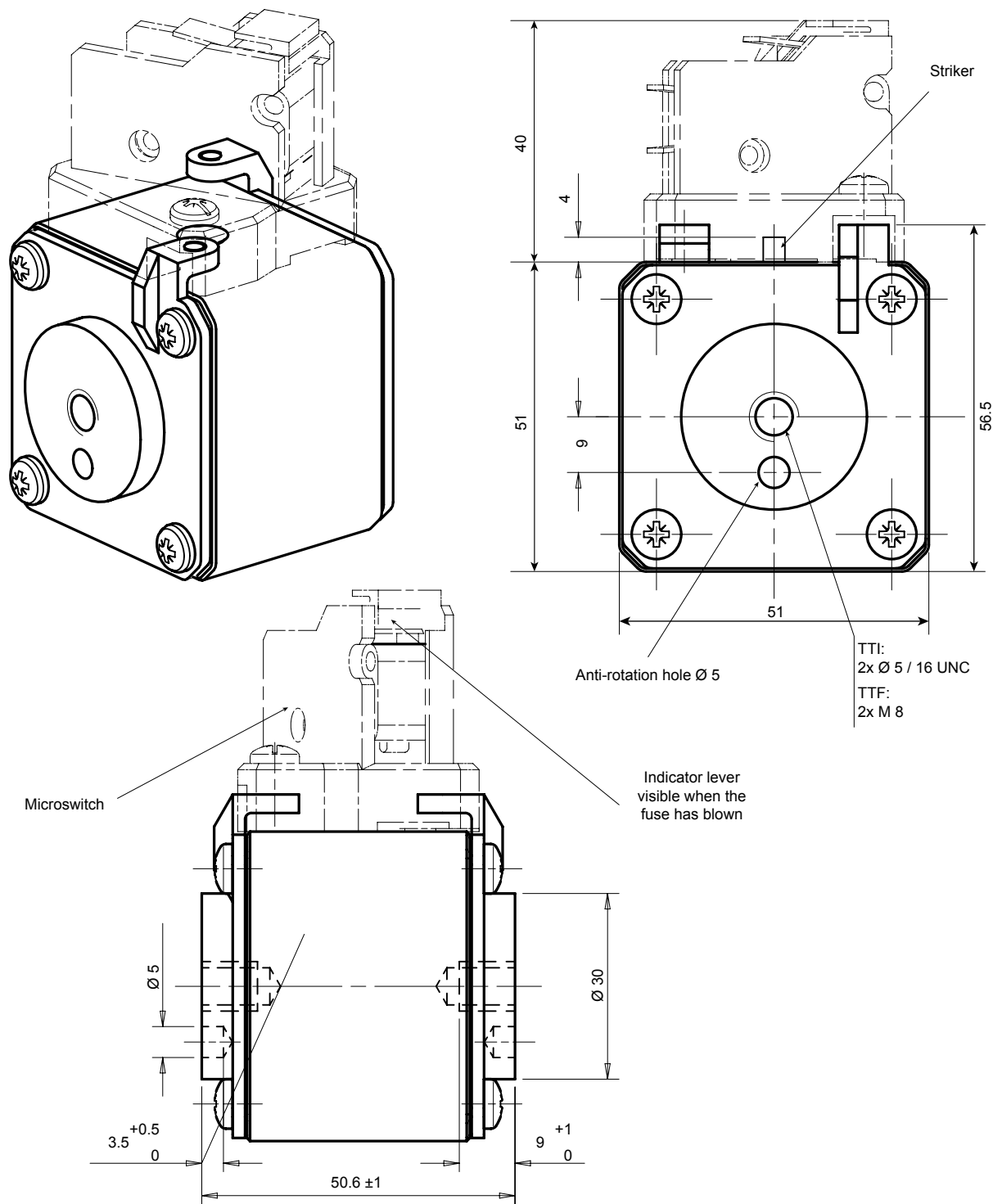
Dimensions in mm

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## DIMENSIONS

### Size 31 type TTF & TTI



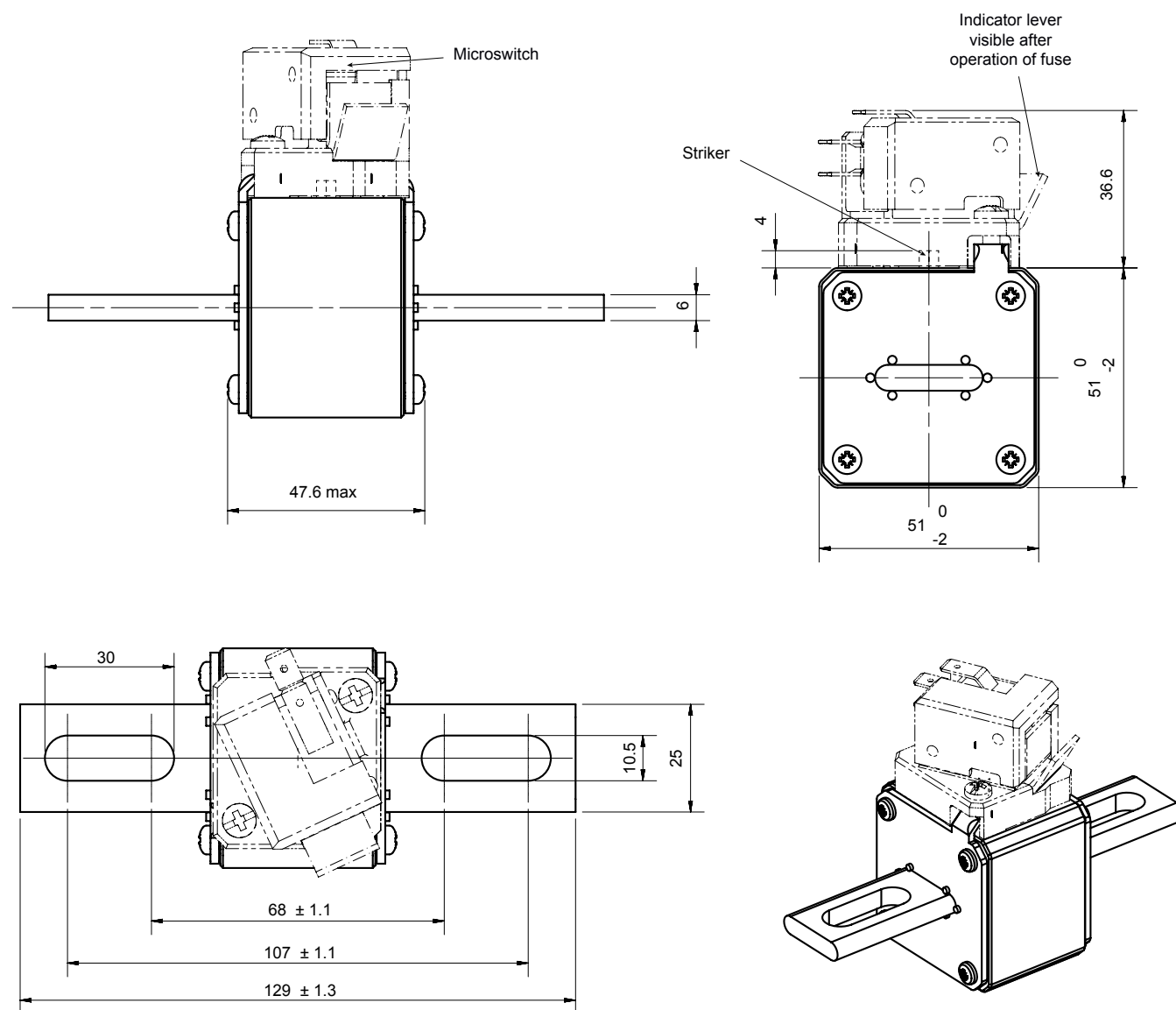
Dimensions in mm

# Protistor® size 31 aR

690VAC (IEC) / 700VAC (UL)

## DIMENSIONS

### Size 31 type KI



Dimensions in mm