

# Protistor® size 31 aR

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 AC	700 VAC
Ampere Range (A)	160 ... 800 A
Speed/Characteristic	aR
I.R. AC (kA)	200 kA
Product Size	31



### Standards

IEC 60269.4 Compliance

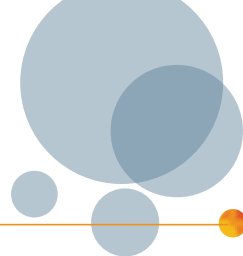
UL/CSA Recognized E76491

CCC GB 1539.4



# Protistor® size 31 aR

700VAC



## Product range



PC31UD69V350TF

### Size 31 type TTF M8 threaded terminals

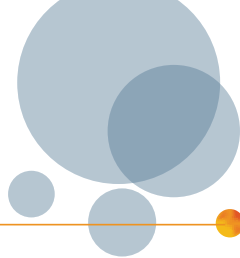
Catalog number	Reference number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I <sub>n</sub>	Pre-arcing I <sup>2</sup> t	Clearing I <sup>2</sup> t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I <sub>n</sub>	Weight	Package
PC31UD69V160TF	M300299	690 V	700	160 A	1.3 kA <sup>2</sup> s	7.7 kA <sup>2</sup> s	200 kA	35 W	370 g	3
PC31UD69V200TF	N300001	690 V	700	200 A	2.6 kA <sup>2</sup> s	15 kA <sup>2</sup> s	200 kA	45 W	370 g	3
PC31UD69V250TF	P300002	690 V	700	250 A	4.7 kA <sup>2</sup> s	28 kA <sup>2</sup> s	200 kA	52 W	370 g	3
PC31UD69V315TF	Q300003	690 V	700	315 A	7.5 kA <sup>2</sup> s	44 kA <sup>2</sup> s	200 kA	65 W	370 g	3
PC31UD69V350TF	M300046	690 V	700	350 A	10.5 kA <sup>2</sup> s	61 kA <sup>2</sup> s	200 kA	67 W	370 g	3
PC31UD69V400TF	R300004	690 V	700	400 A	19 kA <sup>2</sup> s	110 kA <sup>2</sup> s	200 kA	68 W	370 g	3
PC31UD69V450TF	S300005	690 V	700	450 A	26.5 kA <sup>2</sup> s	155 kA <sup>2</sup> s	200 kA	70 W	370 g	3
PC31UD69V500TF	T300006	690 V	700	500 A	37 kA <sup>2</sup> s	215 kA <sup>2</sup> s	200 kA	70 W	370 g	3
PC31UD69V550TF	V300007	690 V	700	550 A	52 kA <sup>2</sup> s	310 kA <sup>2</sup> s	200 kA	70 W	370 g	3
PC31UD69V630TF	W300008	690 V	700	630 A	75 kA <sup>2</sup> s	430 kA <sup>2</sup> s	200 kA	75 W	370 g	3
PC31UD69V700TF	X300009	690 V	700	700 A	95 kA <sup>2</sup> s	540 kA <sup>2</sup> s	200 kA	85 W	370 g	3
PC31UD69V800TF	Y300401	690 V	700	800 A	140 kA <sup>2</sup> s	880 kA <sup>2</sup> s	200 kA	105 W	370 g	3

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

Catalog number	Reference 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	2.6 kA <sup>2</sup> s	15 kA <sup>2</sup> s	200 kA	45 W	370 g	3
A070UD31TTI250	B300473	690 V	700	250 A	4.7 kA <sup>2</sup> s	28 kA <sup>2</sup> s	200 kA	52 W	370 g	3
A070UD31TTI315	C300474	690 V	700	315 A	7.5 kA <sup>2</sup> s	44 kA <sup>2</sup> s	200 kA	65 W	370 g	3
A070UD31TTI350	D300475	690 V	700	350 A	10.5 kA <sup>2</sup> s	61 kA <sup>2</sup> s	200 kA	67 W	370 g	3
A070UD31TTI400	E300476	690 V	700	400 A	19 kA <sup>2</sup> s	110 kA <sup>2</sup> s	200 kA	68 W	370 g	3
A070UD31TTI450	F300477	690 V	700	450 A	26.5 kA <sup>2</sup> s	155 kA <sup>2</sup> s	200 kA	70 W	370 g	3
A070UD31TTI500	G300478	690 V	700	500 A	37 kA <sup>2</sup> s	215 kA <sup>2</sup> s	200 kA	70 W	370 g	3
A070UD31TTI550	H300479	690 V	700	550 A	52 kA <sup>2</sup> s	310 kA <sup>2</sup> s	200 kA	70 W	370 g	3
A070UD31TTI630	J300480	690 V	700	630 A	75 kA <sup>2</sup> s	430 kA <sup>2</sup> s	200 kA	75 W	370 g	3
A070UD31TTI700	K300481	690 V	700	700 A	95 kA <sup>2</sup> s	540 kA <sup>2</sup> s	200 kA	85 W	370 g	3
A070UD31TTI800	L300482	690 V	700	800 A	140 kA <sup>2</sup> s	880 kA <sup>2</sup> s	200 kA	105 W	370 g	3

# Protistor® size 31 aR

700VAC



## Product range



PC31UD69V350A

### Size 31 type DIN80 blades

Catalog number	Reference 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	1.3 kA <sup>2</sup> s	7.7 kA <sup>2</sup> s	200 kA	35 W	430 g	3
PC31UD69V200A	Y300010	690 V	700 V	200 A	2.6 kA <sup>2</sup> s	15 kA <sup>2</sup> s	200 kA	45 W	430 g	3
PC31UD69V250A	Z300011	690 V	700 V	250 A	4.7 kA <sup>2</sup> s	28 kA <sup>2</sup> s	200 kA	52 W	430 g	3
PC31UD69V315A	A300012	690 V	700 V	315 A	7.5 kA <sup>2</sup> s	44 kA <sup>2</sup> s	200 kA	65 W	430 g	3
PC31UD69V350A	Q300049	690 V	700 V	350 A	10.5 kA <sup>2</sup> s	61 kA <sup>2</sup> s	200 kA	67 W	430 g	3
PC31UD69V400A	B300013	690 V	700 V	400 A	19 kA <sup>2</sup> s	110 kA <sup>2</sup> s	200 kA	68 W	430 g	3
PC31UD69V450A	C300014	690 V	700 V	450 A	26.5 kA <sup>2</sup> s	155 kA <sup>2</sup> s	200 kA	70 W	430 g	3
PC31UD69V500A	D300015	690 kV	700 V	500 A	37 kA <sup>2</sup> s	215 kA <sup>2</sup> s	200 kA	72 W	430 g	3
PC31UD69V550A	E300016	690 V	700 V	550 A	52 kA <sup>2</sup> s	310 kA <sup>2</sup> s	200 kA	75 W	430 g	3
PC31UD69V630A	F300017	690 V	700 V	630 A	75 kA <sup>2</sup> s	430 kA <sup>2</sup> s	200 kA	85 W	430 g	3
PC31UD69V700A	G300018	690 V	700 V	700 A	95 kA <sup>2</sup> s	540 kA <sup>2</sup> s	200 kA	95 W	430 g	3
PC31UD69V800A	D300406	690 V	700 V	800 A	140 kA <sup>2</sup> s	880 kA <sup>2</sup> s	200 kA	120 W	430 g	3

### Size 31 type DIN110 blades

Catalog number	Reference 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	2.6 kA <sup>2</sup> s	28 kA <sup>2</sup> s	200 kA	45 W	430 g	3
PC31UD69V250D1A	J300020	690 V	700 V	250 A	4.7 kA <sup>2</sup> s	28 kA <sup>2</sup> s	200 kA	52 W	430 g	3
PC31UD69V315D1A	K300021	690 V	700 V	315 A	7.5 kA <sup>2</sup> s	44 kA <sup>2</sup> s	200 kA	65 W	430 g	3
PC31UD69V350D1A	P300048	690 V	700 V	350 A	10.5 kA <sup>2</sup> s	61 kA <sup>2</sup> s	200 kA	67 W	430 g	3
PC31UD69V400D1A	L300022	690 V	700 V	400 A	19 kA <sup>2</sup> s	110 kA <sup>2</sup> s	200 kA	68 W	430 g	3
PC31UD69V450D1A	M300023	690 V	700 V	450 A	26.5 kA <sup>2</sup> s	155 kA <sup>2</sup> s	200 kA	70 W	430 g	3
PC31UD69V500D1A	N300024	690 V	700 V	500 A	37 kA <sup>2</sup> s	215 kA <sup>2</sup> s	200 kA	72 W	430 g	3
PC31UD69V550D1A	P300025	690 V	700 V	550 A	52 kA <sup>2</sup> s	310 kA <sup>2</sup> s	200 kA	75 W	430 g	3
PC31UD69V630D1A	Q300026	690 V	700 V	630 A	75 kA <sup>2</sup> s	430 kA <sup>2</sup> s	200 kA	85 W	430 g	3
PC31UD69V700D1A	R300027	690 V	700 V	700 A	95 kA <sup>2</sup> s	540 kA <sup>2</sup> s	200 kA	95 W	430 g	3
PC31UD69V800D1A	H300709	690 V	700 V	800 A	140 kA <sup>2</sup> s	880 kA <sup>2</sup> s	200 kA	120 W	430 g	3

### Size 31 type KI short slotted blades

Catalog number	Reference 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	1.3 kA <sup>2</sup> s	7.7 kA <sup>2</sup> s	200 kA	35 W	430 g	3
A070UD31KI200	S300028	690 V	700 V	200 A	2.6 kA <sup>2</sup> s	15 kA <sup>2</sup> s	200 kA	45 W	430 g	3
A070UD31KI250	T300029	690 V	700 V	250 A	4.7 kA <sup>2</sup> s	28 kA <sup>2</sup> s	200 kA	52 W	430 g	3
A070UD31KI315	V300030	690 V	700 V	315 A	7.5 kA <sup>2</sup> s	44 kA <sup>2</sup> s	200 kA	65 W	430 g	3
A070UD31KI350	R300050	690 V	700 V	350 A	10.5 kA <sup>2</sup> s	61 kA <sup>2</sup> s	200 kA	67 W	430 g	3
A070UD31KI400	W300031	690 V	700 V	400 A	19 kA <sup>2</sup> s	110 kA <sup>2</sup> s	200 kA	68 W	430 g	3
A070UD31KI450	X300032	690 V	700 V	450 A	26.5 kA <sup>2</sup> s	155 kA <sup>2</sup> s	200 kA	70 W	430 g	3
A070UD31KI500	Y300033	690 V	700 V	500 A	37 kA <sup>2</sup> s	215 kA <sup>2</sup> s	200 kA	72 W	430 g	3
A070UD31KI550	Z300034	690 V	700 V	550 A	52 kA <sup>2</sup> s	310 kA <sup>2</sup> s	200 kA	75 W	430 g	3
A070UD31KI630	A300035	690 V	700 V	630 A	75 kA <sup>2</sup> s	430 kA <sup>2</sup> s	200 kA	85 W	430 g	3
A070UD31KI700	B300036	690 V	700 V	700 A	95 kA <sup>2</sup> s	540 kA <sup>2</sup> s	200 kA	95 W	430 g	3
A070UD31KI800	A301070	690 V	700 V	800 A	140 kA <sup>2</sup> s	880 kA <sup>2</sup> s	200 kA	120 W	430 g	3
PC31UD69V700EF	L300045	690 V	700 V	700 A	95 kA <sup>2</sup> s	540 kA <sup>2</sup> s	200 kA	95 W	430 g	3

### Size 31 type LI long slotted blades

Catalog	Reference	Rated	Rated	Rated	Pre-arcing I <sup>2</sup> t	Clearing I <sup>2</sup> t at	Rated breaking	Power dissi-	Weight	Package

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