Protistor® size 14x51 aR

690VAC (IEC) / 700VAC (UL)

SEMICONDUCTOR PROTECTION FUSES

IEC HIGH-SPEED CYLINDRICAL FUSE-LINKS AC PROTECTION



These Protistor® size 14x51 have been designed to protect power semi conductors, complying with standard IEC 60269-4. They are extremely high interrupting rating fuses with large band of ratings (current rating 6 to 63A).

Two models are existing: with or without striker.

TECHNICAL DATA OVERVIEW

Voltage AC	690 VAC
Rated Voltage	AC IEC: 690V AC UL: 700V DC UL: 500V
Ampere Range (A)	6 ... 63 A
Speed/Characteristic	aR
I.R. AC (IEC)	160 kA
I.R. AC (UL)	200 kA
I.R. DC (UL)	50 kA

FEATURES & BENEFITS

- Low I^2t for improved semiconductor protection
- Extremely fast acting
- Current limiting
- Excellent cycling capability
- UL recognized
- aR-class according to 60269-4

APPLICATIONS

- Small inverters
- UPS systems
- Variable speed drives
- Other similar 700V or less equipments

STANDARDS

- IEC 60269-4
- UL recognized
- CSA
- RoHS compliant

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PRODUCT RANGE



FR14AR69V16T

Size 14x51 aR with striker

Catalog number	Item number	Rated voltage AC (IEC)	Rated current I_n	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	Pre-arcing I^2t	Package	Weight
FR14AR69V6T	P1056656	690 V	6 A	20 A²s	160 kA	1.5 W	2.4 A²s	10	20 g
FR14AR69V8T	Q1056657	690 V	8 A	30 A²s	160 kA	2 W	3.3 A²s	10	20 g
FR14AR69V10T	R1056658	690 V	10 A	40 A²s	160 kA	3 W	4.3 A²s	10	20 g
FR14AR69V12T	S1056659	690 V	12 A	55 A²s	160 kA	4 W	5.4 A²s	10	20 g
FR14AR69V16T	T1056660	690 V	16 A	100 A²s	160 kA	5 W	11.3 A²s	10	20 g
FR14AR69V20T	V1056661	690 V	20 A	160 A²s	160 kA	5.5 W	21.7 A²s	10	20 g
FR14AR69V25T	W1056662	690 V	25 A	345 A²s	160 kA	6 W	45.3 A²s	10	20 g
FR14AR69V32T	X1056663	690 V	32 A	500 A²s	160 kA	7.7 W	77.4 A²s	10	20 g
FR14AR69V40T	Y1056664	690 V	40 A	850 A²s	160 kA	9.2 W	129.6 A²s	10	20 g
FR14AR69V50T	Z1056665	690 V	50 A	1500 A²s	160 kA	11.2 W	241.1 A²s	10	20 g
FR14AR69V63T	A1056666	690 V	63 A	2600 A²s	160 kA	14.3 W	428.6 A²s	10	20 g



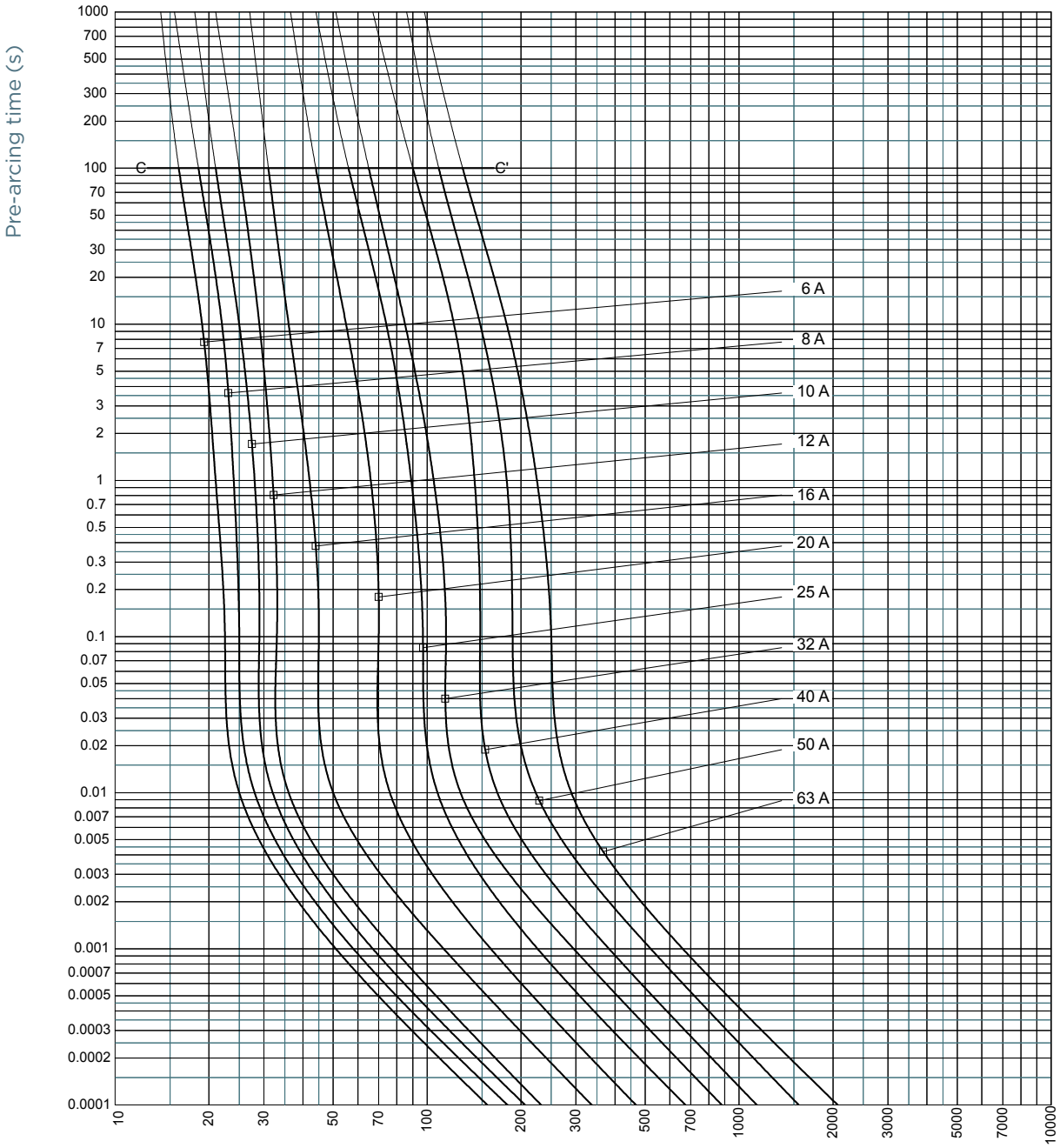
FR14AR69V50

Size 14x51 aR without striker

Catalog number	Item number	Rated voltage AC (IEC)	Rated current I_n	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	Pre-arcing I^2t	Package	Weight
FR14AR69V6	H1027325	690 V	6 A	20 A²s	160 kA	1.5 W	2.4 A²s	10	20 g
FR14AR69V8	J1027326	690 V	8 A	30 A²s	160 kA	2 W	3.3 A²s	10	20 g
FR14AR69V10	K1027327	690 V	10 A	40 A²s	160 kA	3 W	4.3 A²s	10	20 g
FR14AR69V12	L1027328	690 V	12 A	55 A²s	160 kA	4 W	5.4 A²s	10	20 g
FR14AR69V16	M1027329	690 V	16 A	100 A²s	160 kA	5 W	11.3 A²s	10	20 g
FR14AR69V20	N1027330	690 V	20 A	160 A²s	160 kA	5.5 W	21.7 A²s	10	20 g
FR14AR69V25	P1027331	690 V	25 A	345 A²s	160 kA	6 W	45.3 A²s	10	20 g
FR14AR69V32	Q1027332	690 V	32 A	500 A²s	160 kA	7.7 W	77.4 A²s	10	20 g
FR14AR69V40	R1027333	690 V	40 A	850 A²s	160 kA	9.2 W	129.6 A²s	10	20 g
FR14AR69V50	S1027334	690 V	50 A	1500 A²s	160 kA	11.2 W	241.1 A²s	10	20 g
FR14AR69V63	T1027335	690 V	63 A	2600 A²s	160 kA	14.3 W	428.6 A²s	10	20 g

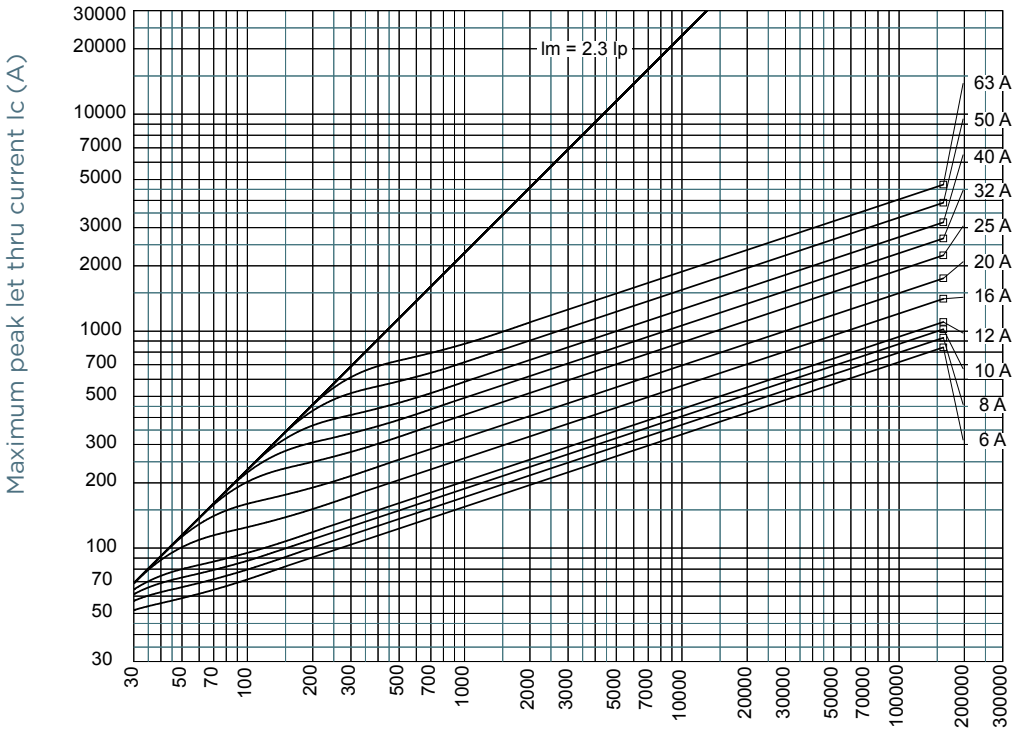
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TIME CURRENT CHARACTERISTIC CURVES

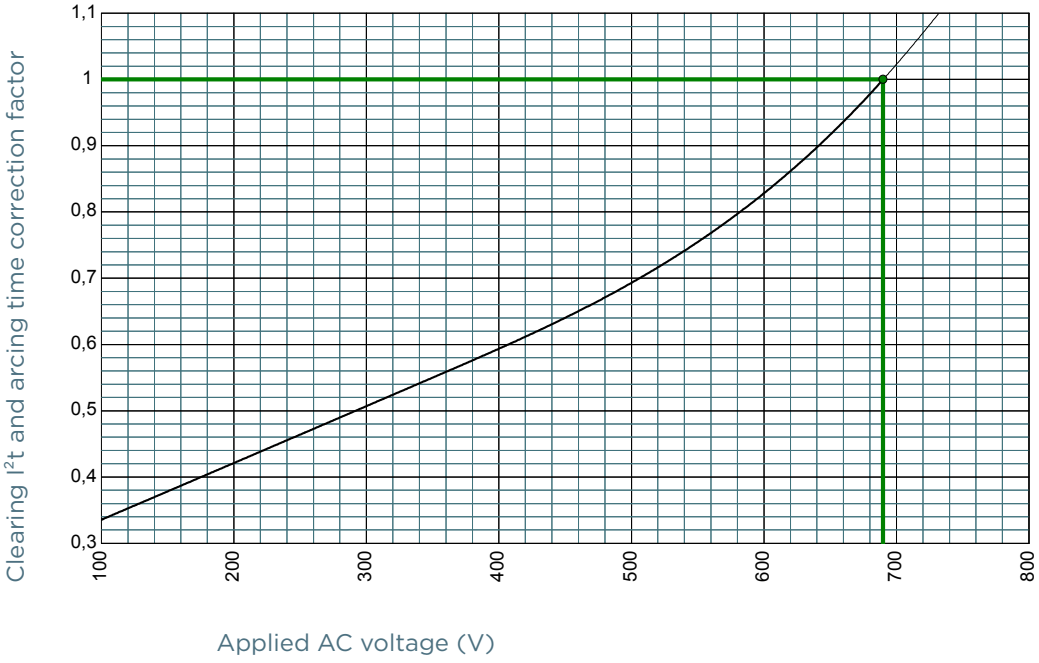


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CUT-OFF CURRENT CHARACTERISTIC

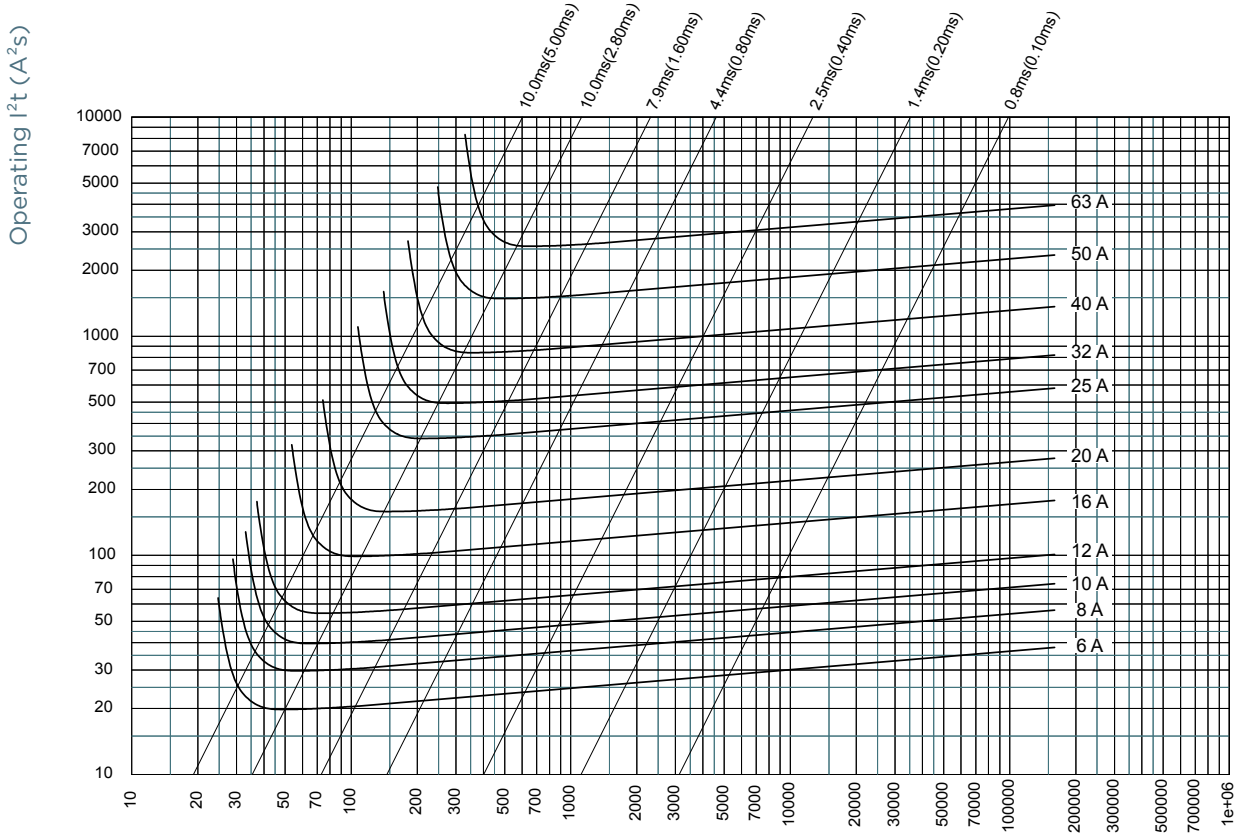


I²T MULTIPLIER COEFFICIENT

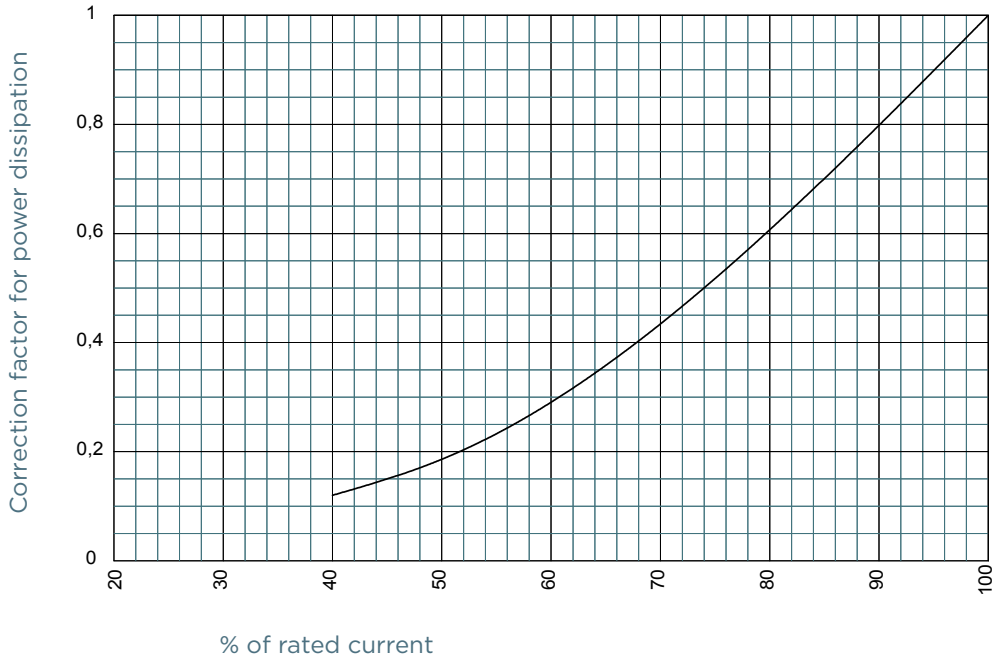


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CHARACTERISTICS TOTAL I^2T CURVE

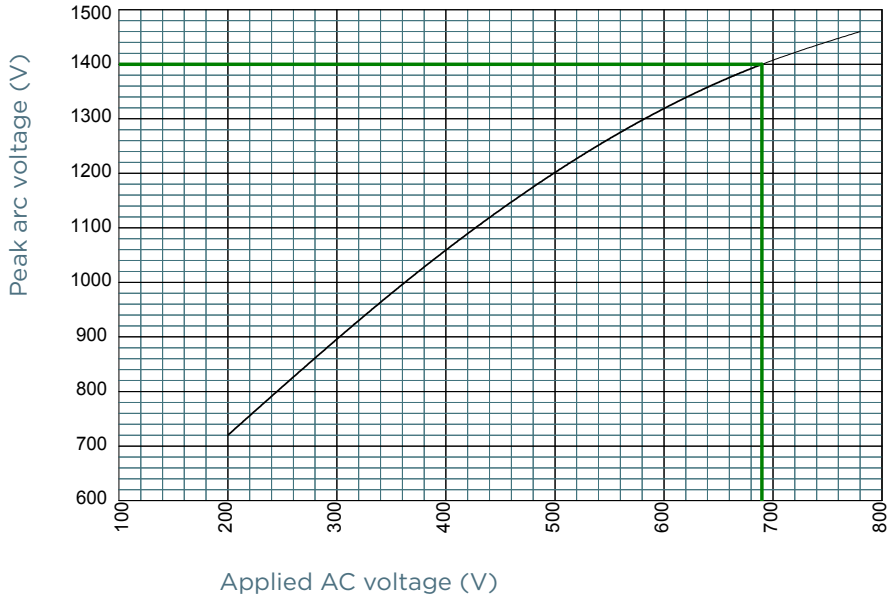


POWER DISSIPATION



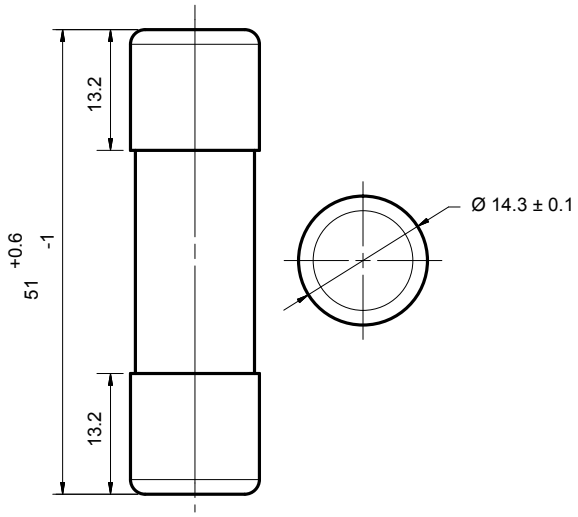
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PEAK ARC VOLTAGE



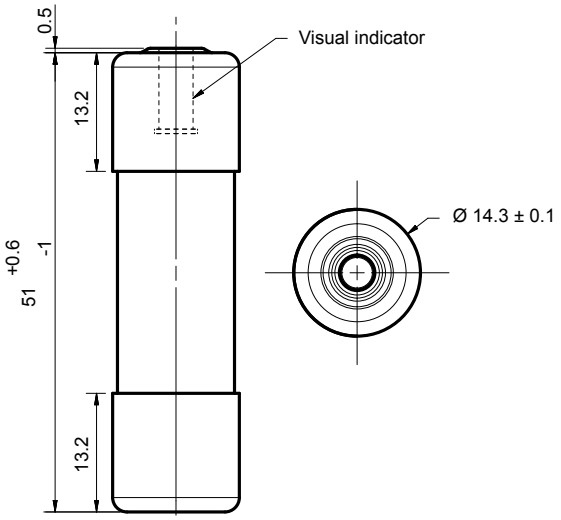
DIMENSIONS

Size 14x51 aR without striker



Dimensions in mm

Size 14x51 aR with striker



Dimensions in mm

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