

AR CYLINDRICAL FUSE LINKS FOR SEMICONDUCTORS

Rapidplus cylindrical fuse links for semiconductors

491105
Semiconductor High Speed Fuse Link 10x38mm aR ,
690V, 1A



- 10x38, 14x51 and 22x58 sizes
- wide range rated between 1A and 100A
- UL and IEC approved
- Rated up to 690VAC

PRODUCT DESCRIPTION

AR CYLINDRICAL SEMICONDUCTOR FUSE LINKS – FAST-ACTING PROTECTION FOR POWER ELECTRONICS

DF Electric's aR cylindrical fuse links are high-speed aR-class fuses, specifically designed to protect semiconductor components such as IGBTs, thyristors, SCRs, and diodes. These fast-acting fuses provide critical protection in circuits where conventional fuses are too slow to react to short-circuit events.

KEY FEATURES

- aR operating class – Offers ultra-fast disconnection to protect sensitive semiconductors from damage during fault conditions
- Voltage rating – Up to 690V AC and 700V DC (L/R = 10ms)
- Breaking capacity – 200kA at 690V AC, 30kA at 700V DC
- Current ratings – 1A to 100A
- Optional striker pin – Compatible with microswitches for remote fault indication
- Construction – Ceramic tube with silver-plated contacts for high durability and conductivity
- Standards – Compliant with IEC/EN 60269-1/-4 and UL 248-1/-13

APPLICATIONS

- Power semiconductor protection (IGBTs, MOSFETs, thyristors)
- DC/AC inverters and rectifiers
- Soft starters and variable speed drives (VSD/VFD)
- UPS systems, welding controls, and high-speed DC switching equipment
- Any power electronics requiring low I^2t and rapid fault isolation

WHY CHOOSE DF ELECTRIC AR FUSE LINKS?

- Specifically engineered for semiconductor fault protection
- Fast acting with minimal energy let-through (low I^2t)
- Supports both AC and DC environments with high breaking capacity
- Reliable performance in industrial automation, drive systems, and precision electronics

TECHNICAL DATA

GENERAL DATA

Type	aR
4853_Size (mm)	10x38

Rated current	1 A
Voltage ac max	690 V
Voltage dc max	700 V
Frequency	42...62Hz
Indicator	No

ADDITIONAL DATA

Tariff code	85361010
Country of origin	ES
Weight	8 g
Pack size	10