Electronic – PCB and small dimension fuses

1/4″ x 1 1/4″ time-delay fuses

MDL-V (axial leads)

MDL

Specifications
Description: Time-delay fuse.
Dimensions: ¼″ x 1 ¼″ (6.4 x 31.7mm).
Construction: Glasstube with nickel-plated brass endcaps.

Ratings:
Volts — 250Vac (1/16-8A)
— 32Vac (9-30A)
— 32Vdc (Self Certified)
Amps — 1/16-30A
IR* — 35A (1/16-1A @ 250Vac)
— 100A (1¼-3A @ 250Vac)
— 200A (4-8A @ 250Vac)
— 10000A (1/16-8A @ 125Vac)
— 1000A (9-30A @ 32Vac)

RoHS

*Interrupting ratings were measured at 70% – 80% power factor on AC, and at a time constant described in UL 198L.

Agency information: CE, UL Listed, Guide JDYX, File E19180, 1/16-8A; CSA Certification Class 1422-01, 1/16-8A; UL Recognized, Guide JDYX2, File E19180, 9-30A; CSA Component Acceptance, Class 142230, 9-30A.

Features and benefits
- Time-delay allows close sizing on inductive circuits.

Typical applications
- Electronic circuits

Catalog numbers (amps)

With axial leads		
MDL-V-1/16-R	MDL-V-1-R	MDL-V-6-R
MDL-V-1/10-R	MDL-V-1-1/4-R	MDL-V-7-R
MDL-V-1/8-R	MDL-V-1-1/2-R	MDL-V-8-R
MDL-V-3/16-R	MDL-V-2-R	MDL-V-9-R
MDL-V-3/16-R	MDL-V-2-1/4-R	MDL-V-10-R
MDL-V-1/4-R	MDL-V-2-1/2-R	MDL-V-12-R
MDL-V-3/10-R	MDL-V-3-R	MDL-V-15-R
MDL-V-3/8-R	MDL-V-3-3/10-R	MDL-V-20-R
MDL-V-1/2-R	MDL-V-4-R	MDL-V-25*
MDL-V-3/4-R	MDL-V-5-R	MDL-V-30*
Without axial leads		
MDL-1/16-R	MDL-1-R	MDL-6-R
MDL-1/10-R	MDL-1-1/4-R	MDL-7-R
MDL-1/8-R	MDL-1-1/2-R	MDL-8-R
MDL-3/10-R	MDL-2-R	MDL-9-R
MDL-3/16-R	MDL-2-1/4-R	MDL-10-R
MDL-1/4-R	MDL-2-1/2-R	MDL-12-R
MDL-3/10-R	MDL-3-R	MDL-15-R
MDL-3/8-R	MDL-3-3/10-R	MDL-20-R
MDL-1/2-R	MDL-4-R	MDL-25*
MDL-3/4-R	MDL-5-R	MDL-30*

*MDL-25 & MDL-30 are not available in RoHS compliant construction.

Data Sheet: 2004

MDQ-V (axial leads)

MDQ

Specifications
Description: Dual-element, time-delay fuse.
Dimensions: ¼″ x 1 ¼″ (6.4 x 31.7mm).
Construction: Glass tube with nickel-plated brass endcaps.

Ratings:
Volts — 250Vac (1/100-7A)
— 32Vac (7½-15A)
— 32Vdc (Self Certified)
Amps — 1/100-15A
IR — 35A (1/100-1A @ 250Vac)
— 100A (1¼-3A @ 250Vac)
— 200A (4-7A @ 250Vac)
— 1000A (7½-12A @ 32Vac)

Agency information: Std. 248-14, UL Listed, File E19180; Guide JDYX, 1/16-7A CSA Certification, File 47233, Class 1422-01, 1/16-7A, UL Recognized, Guide JDYX2, File E19180, 7.1-30A.

Features and benefits
- Dual-element design allows closer sizing to inductive circuits than any other fuses.

Typical applications
- Electronic relay and control circuits

Catalog numbers (amps)

With axial leads			
MDQ-V-1/100	MDQ-V-3/10	MDQ-V-1-1/2	MDQ-V-5
MDQ-V-1/32	MDQ-V-3/8	MDQ-V-1-3/10	MDQ-V-6
MDQ-V-1/16	MDQ-V-4/10	MDQ-V-1-8/10	MDQ-V-6-1/4
MDQ-V-1/10	MDQ-V-1/2	MDQ-V-2	MDQ-V-7
MDQ-V-1/8	MDQ-V-5/10	MDQ-V-2-1/4	MDQ-V-7-1/2
MDQ-V-15/100	MDQ-V-3/4	MDQ-V-2-1/2	MDQ-V-8
MDQ-V-175/1000	MDQ-V-8/10	MDQ-V-2-8/10	MDQ-V-9
MDQ-V-3/16	MDQ-V-1	MDQ-V-3	MDQ-V-10
MDQ-V-2/10	MDQ-V-1-2/10	MDQ-V-3-2/10	MDQ-V-12
MDQ-V-1/4	MDQ-V-1-1/4	MDQ-V-4	MDQ-15
Without axial leads			
MDQ-1/100	MDQ-3/10	MDQ-1-1/2	MDQ-5
MDQ-1/32	MDQ-3/8	MDQ-1-3/10	MDQ-6
MDQ-1/16	MDQ-4/10	MDQ-1-8/10	MDQ-6-1/4
MDQ-1/10	MDQ-1/2	MDQ-2	MDQ-7
MDQ-1/8	MDQ-5/10	MDQ-2-1/4	MDQ-7-1/2
MDQ-15/100	MDQ-3/4	MDQ-2-1/2	MDQ-8
MDQ-175/1000	MDQ-8/10	MDQ-2-8/10	MDQ-9
MDQ-3/16	MDQ-1	MDQ-3	MDQ-10
MDQ-2/10	MDQ-1-2/10	MDQ-3-2/10	MDQ-12
MDQ-1/4	MDQ-1-1/4	MDQ-4	MDQ-15

Data Sheet: 2044

MDA-V (axial leads)

MDA

Specifications
Description: Time-delay fuse.
Dimensions: ¼″ x 1 ¼″ (6.35 x 31.75mm).
Construction: Ceramic tube with nickel-plated brass endcaps.

Ratings:
Volts — 250Vac (or less)
— 125Vdc (20A- 30A)
— 32Vdc (Self certified)
Amps — ¼-30A
IR** — 35A (¼-1A @ 250Vac)
— 100A (1½-2A @ 250Vac)
— 200A (2½-10A @ 250Vac)
— 750A (12-15A @ 250Vac)
— 1500A (20-30A @ 250Vac)
— 10kA (¼-30A @ 125Vac)
— 10kA (20-30A @ 125Vdc)

RoHS

**Interrupting ratings were measured at 70% – 80% power factor on AC, and at a time constant described in UL 248.

Agency information: CE, Std. 248-14, UL Listed, Guide JDYX, File E19180, 0-20A CSA Certification, Class 1422-01, File 53787, 0-20A. UL Recognized, Guide JDYX2, File E19180, 25-30A, CSA Component Acceptance, Class 1422-30, 25-30A

Features and benefits
- Ceramic body allows for higher amp/volt rating combinations.
- Inventory consolidation by replacing MDL fuses allows for reduced SKU investment and minimizing potential for misapplying fuse.

Typical applications
- Electronic circuits

Catalog numbers (amps)

With axial leads		
MDA-V-1/4-R	MDA-V-3-R	MDA-V-12-R
MDA-V-1/2-R	MDA-V-4-R	MDA-V-15-R
MDA-V-3/4-R	MDA-V-5-R	MDA-V-20-R
MDA-V-1-R	MDA-V-6-R	MDA-V-25A-R
MDA-V-1-1/2-R	MDA-V-7-R	MDA-V-30A-R
MDA-V-2-R	MDA-V-8-R	
MDA-V-2-1/2-R	MDA-V-10-R	
Without axial leads		
MDA-1/4-R	MDA-3-R	MDA-12-R
MDA-1/2-R	MDA-4-R	MDA-15-R
MDA-3/4-R	MDA-5-R	MDA-20-R
MDA-1-R	MDA-6-R	MDA-25A-R
MDA-1-1/2-R	MDA-7-R	MDA-30A-R
MDA-2-R	MDA-8-R	
MDA-2-1/2-R	MDA-10-R	

Data Sheet: 2002