



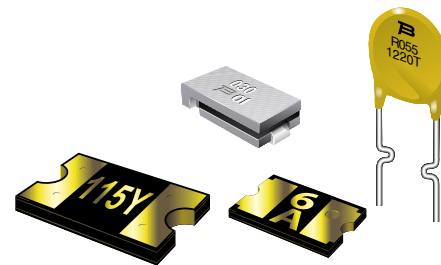
CIRCUIT PROTECTION

- ▶ Bourns10-12
- ▶ Phoenix Contact13
- ▶ Tyco Electronics14-16



Multifuse® Polymer Positive Temperature Coefficient (PTC) Resettable Fuses

Bourns Multifuse® PTC resettable fuses protect against overcurrent conditions, such as short circuit, overcurrent, and over-temperature. During fault conditions, the PTC flips from low to high impedance, or tripped mode. Once tripped, the fuse can then be reset by cycling the power. These devices are available in thru-hole, surface-mount, and strap configurations and can be used in a wide variety of applications.



Features ▶

- Protects against short circuit, overcurrent, and over-temperature conditions
- UL, CSA, and TUV agency approvals and RoHS compliant
- Device is resettable
- Compact surface-mount packages, down to 0805
- Standard process used to customize mechanical and electrical parameters

Benefits ▶

- Reduces repairs, service requirements, downtime, and warranty costs
- Prevents potentially hazardous conditions
- Reduces manufacturing costs
- Easily customizable solution for most applications
- Does not need to be replaced; no need to be board-accessible

Applications ▶

- Over-current protection for USB, IEEE 1394, and Power-Over-Ethernet ports
- Over-current and over-temperature protection for motor windings
- Battery, battery-pack, and battery-charger over-current protection
- Portable electronics over-current protection
- Industrial controls over-current protection

Product Specifications ▶

Product Series	Mounting Configuration (package)	Operating Voltage (V)	Hold Current (Must not trip) 23°C	Trip Current (Must trip) 23°C
MF-SM	SMT - 2920 and 3425	6-60	300 mA-3A	600 mA-6A
MF-SMDF	SMT - 2018	10-60	550 mA-2A	1.2A-4A
MF-MSMF	SMT - 1812	6-60	100 mA-2.6A	300 mA-2.6A
MF-USMF	SMT - 1210	6-30	50 mA-2A	150 mA-4A
MF-NSMF	SMT - 1206	6-30	120 mA-2A	290 mA-4A
MF-PSMF	SMT - 0805	6-15	100 mA-1.1A	300 mA-2.2A
MF-R	Thru-hole	16-60	50 mA-11A	100 mA-22A
MF-RX/72	Thru-hole	72	1.1A-3.75A	2.2A-7.5A
MF-R/90	Thru-hole	90	550 mA-750 mA	1.1A-1.5A
MF-RX/250	Thru-hole	60 (250 interrupt)	120 mA-18mA	240 mA-650 mA
MF-R/600	Thru-hole	60 (500 interrupt)	150 mA-160 mA	300 mA-320 mA
MF-SVS	Axial leaded/battery strap	10	1.7A-2.3A	4.1A-5.2A
MF-VS	Axial leaded/battery strap	16	1.7A-2.4A	3.4A-5.9A
MF-LR	Axial leaded/battery strap	15-20	1.9A-9.0A	3.9A-16.7A
MF-LS	Axial leaded/battery strap	15-24	700 mA-3.4A	1.5A-6.8A
MF-S	Axial leaded/battery strap	15-30	1.2A-4.2A	2.7A-7.6A

Related Information ▶



MF-SM
2920



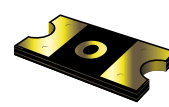
MF-SMDF
2018



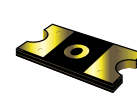
MF-MSMF
1812



MF-USMF
2920



MF-NSMF
2920



MF-PSMF
2920



GDT Surge Protection for Industrial Applications

Bourns® Gas Discharge Tubes (GDT) can be used for protection of sensitive circuitry from surges of any polarity or magnitude. Ideal for protection against high-energy transients, they support low loss on high speed data lines, provide long and stable life performance, and feature low capacitance of less than 2 pF. GDTs are designed to prevent damage from transient disturbances by acting as a “crowbar” to create a short-to-ground circuit during conduction.

Features ▶

- Ideal for board-level protection of signaling circuits
- High surge-current rating
- Low insertion loss
- Stable breakdown throughout life
- UL recognized
- RoHS compliant versions available

Benefits ▶

- Long surge life in harsh environments
- Surface-mount available for automated assembly
- High energy handling for severe exposure applications
- Very low loss characteristics for high speed applications

Applications ▶

- Industrial electronics
- Commercial electronics
- Signaling systems
- Aircraft and military electronics
- Communications systems

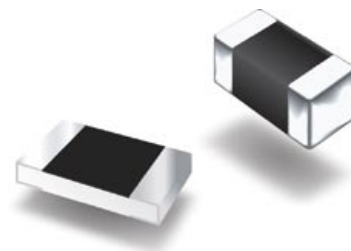
Product Specifications ▶

Part Number	Description	Packaging Type	DC Sparkover @ 100 V/sec, ± %	Impulse Sparkover 100 V/micro sec	Shipment Pack Quantity	RoHS Compliant	Order Multiple
2026-09-C2LF	3-electrode GDT, 90V	Tray	90, ±20	275	100	Yes	1000
2026-60-C2LF	3-electrode GDT, 600V	Tray	600, ±20	925	100	Yes	1000
2027-09-BLF	2-electrode GDT, 90V	Bulk	90, ±20	275	100	Yes	1000
2027-09-SM-RPLF	2-electrode GDT, 90V, surface-mount, reel pack	Reel	90, ±20	275	1000	Yes	1000
2027-60-BLF	2-electrode GDT, 600V	Bulk	600, ±15	850	100	Yes	1000
2027-60-SM-RPLF	2 electrode GDT, 600V, surface-mount, reel pack	Reel	600, ±15	850	1000	Yes	1000
2035-09-BLF	2-electrode GDT, 90V, mini	Bulk	90, ±20	300	100	Yes	1000
2035-09-SM-RPLF	2-electrode GDT, 90V, mini, surface-mount, reel pack	Reel	90, ±20	300	1500	Yes	1500
2035-60-BLF	2-electrode GDT, 600V, mini	Bulk	600, ±15	950	100	Yes	1000
2035-60-SM-RPLF	2-electrode GDT, 600V, mini, surface-mount, reel pack	Reel	600, ±15	950	1500	Yes	1500
2036-09-B3LF	3-electrode GDT, 90V, mini	Tray	90, ±20	250	100	Yes	1000
2036-09-SM-RPLF	3-electrode GDT, 90V, mini, surface-mount, reel pack	Reel	90, ±20	250	1000	Yes	1000
2036-60-B3LF	3-electrode GDT, 600V, mini	Tray	600, ±15	850	100	Yes	1000
2036-60-SM-RPLF	3-electrode GDT, 600V, mini, surface-mount, reel pack	Reel	600, ±15	850	1000	Yes	1000
2039-80-SM-RPLF	2-electrode GDT, 800V, mini, surface-mount, reel pack	Reel	800, ±20	1250	1500	Yes	1500
2039-110-SM-RPLF	2-electrode GDT, 1100V, mini, surface-mount, reel pack	Reel	1100, ±20	1500	1500	Yes	1500



ESD Protection Products

Bourns® ChipGuard® is a family of Electrostatic Sensitive Device (ESD) protection devices. ChipGuard® metal oxide technology provides a high-impulse current capability of 20A at 8/20 μ s in an ultra-small 0402 package with a low capacitance of 0.5 pF. The ChipGuard® family is available in a variety of voltage options from 5.5 VDC to 18 VDC, and in 0402-type and 0603-type packaging to meet industry standards.



Features ▶

- Protects against IEC 61000-4-2 (± 8 kV contact/ ± 15 kV air discharge) and IEC 61000-4-5
- RoHS compliant
- SMT 0402 and 0603 discrete package

Benefits ▶

- Protects against ESD, EFT, and surge transients
- Reduces repairs, service, downtime, and warranty costs
- Product integration reduces manufacturing assembly cost
- Does not need to be replaced; no need to be board-accessible
- Low-capacitance and low-leakage currents available

Applications ▶

- USB, IEEE 1394, and HDMI port over-voltage protection
- Antenna over-voltage protection
- Portable electronics over-voltage protection
- Industrial controls over-voltage protection
- Telecom, automotive, and computer over-voltage protection

Product Specifications ▶

	Part Number	Working Voltage (V)		Tolerance (%)	Clamping Voltage VC	Impulse Current ITM Max. (A)	Capacitance Cp Typ. (pF)
		Vms	VDC				
MLA Series	CG0402MLA-5.5MG	4	5.5	20	19	20	300
	CG0402MLA-14KG	11	14	10	38	20	100
	CG0402MLA-18KG	14	18	10	45	20	95
	CG0603MLA-5.5ME	4	5.5	20	19	30	300
	CG0603MLA-14KE	11	14	10	35	30	160
	CG0603MLA-18KE	14	18	10	40	30	140
MLC Series	Part Number	Continuous Operating Voltage VDC (V)		Clamping Voltage VClamp Max. (V)	Off-State Current IL Max. (nA)	Response Time TD Max. (A)	Capacitance C0F Max. (pF)
		Typ.	Max.				
	CG0603MLC-05E	5	6	35	50	1	0.5
CG0603MLC-12E	12	NA	50	50	1	0.5	
MLE Series	Part Number	Continuous Operating Voltage (V)			Clamping Voltage Typ. 8 kV Contact VClamp (V)	Off-State Current IL Max. 12V (μ A)	Capacitance 1 Vms@1 MHz Cp Max. (pF)
		Vms Max.	VDC Typ.	VDC Max.			
	CG0402MLE-18G	8.5	12	18	100	1	9
CG0603MLE-18E	8.5	12	18	40	1	50	
MLD Series	Part Number	Continuous Operating Voltage Max. VDC	Breakdown Voltage Typ. VB@1 mA	Clamping Voltage Max. VC@1A 8/20 μ s	Off-State Current IL Max. (μ A)	Capacitance C0FF Max. (pF)	
							CG0402MLD-12G
	CG0603MLD-12E	12	50-60	140	1	5	



Surge Protection

With over 25 years experience in surge and lightning protection, Phoenix Contact, Inc. offers one of the most comprehensive product lines on the market. With over 2,000 different surge protection part numbers, the company offers a wide range of protection products and technologies to handle four main areas: power, measurement and control, data, and coax systems.

Features ▶

- Multi-stage protection
- Hot-swap capability
- Easy to integrate with DIN-rail mount
- Remote indicator

Benefits ▶

- Large product offering to meet all your needs
- Increased equipment uptime
- Save on installation and maintenance labor costs

Applications ▶

- AC and DC power supplies
- Measurement and control signals (I/O)
- Data networks and industrial bus systems
- Telemetry and telephone interfaces
- Antenna (coax) lines

Product Specifications ▶

	Part Number	Description	Power System	Surge Current Capability	Hot-Swap	DIN-Rail	Remote Indicator	Warranty
Protection for Power Supply	5602746	SYSTEMTRAB 3 phase, wye-connected	480/277 VAC	50 kA	Yes	Yes	Yes	Yes
	5602747	SYSTEMTRAB 3 phase, wye-connected	208/120 VAC	50 kA	Yes	Yes	Yes	Yes
	5603421	SYSTEMTRAB 3 phase, ungrounded DELTA connected	480 VAC	50 kA	Yes	Yes	Yes	Yes
	2798844	VAL-MS 230 ST	230 VAC	40 kA	Yes	Yes	Yes	Yes
	2817741	VAL-MS-BE (base-use with 2798844)	NA	NA	NA	Yes	Yes	Yes
	2839334	PT2-PE/S-120AC	120 VAC/VDC	10 kA	Yes	Yes	Yes	Yes
	2839282	PT-BE/FM (base-use with 2839334)	NA	NA	NA	Yes	Yes	Yes
	2856702	SFP 1-20/120 AC also in 5A,10A, and 15A	120 VAC	3 kA	No	Yes	Yes	Yes
Protection for Measurement and Control	2838241	PT 2 x 2-5DC-ST for floating signal	5 VDC	10 kA	Yes	Yes	No	Yes
	2838306	PT 4 x 1-5DC-ST for a common reference	5 VDC	10 kA	Yes	Yes	No	Yes
	2819008	PT PE/S+1 x 2-24-ST for power supply and floating signal	40 DC/28 AC	10 kA	Yes	Yes	Yes	Yes
Protection for Coax	2838490	CN-LAMBDA/4-5.9-BB for 2.4 GHz-5.9 GHz	NA	60 kA	No	Yes*	No	Yes
	2782300	C-UFB-5DC/E for video systems	5 VDC	≤ 2 μA	No	Yes*	No	Yes
	2803166	CN-UB-70DC-6-BB for 6 GHz	70 VDC	20 kA	No	Yes*	No	Yes
Protection for Data	2881007	DT-LAN-CAT.6 for power over Ethernet	3.3 VDC	2 kA	No	Yes	No	Yes
	2858991	D-LAN-CAT.5E for Ethernet	±7 VDC	2.5 kA	No	Yes	No	Yes
	2838283	PT 2 x 2-24AC-ST for interbus	24 VAC	20 kA	Yes	Yes	No	Yes

*Needs additional mounting bracket part number 5604838

Related Information ▶

For a complete list of Phoenix Contact, Inc. products, TRABTECH products, and additional data contact an Arrow representative at 800-349-4960.

Remember to order the plug and the base; contact an Arrow representative for assistance.



3-Phase RFI Filters

3-Phase Radio Frequency Interference (RFI) filters are available with current ratings from 3A to 400A. These filters help equipment comply with international requirements for conducted emissions, and they aid in immunity/susceptibility compliance. Products include both Delta and wye wiring configurations. Filter circuits are optimized for general purpose and clean-up applications, frequency converters, and motor control devices. Customizations are also available.



3-Phase RFI filters

Features ▶

- 3A to 400A rating
- Delta or wye wiring
- Safety agency approvals—see table
- Voltage ratings 277/480 and 250/440
- Various termination options

Benefits ▶

- Helps protect electronic equipment in industrial applications
- Enables equipment to meet strict international emissions standards
- Optimized circuit for various applications
- Minimized package size to fit specific applications
- Sample availability

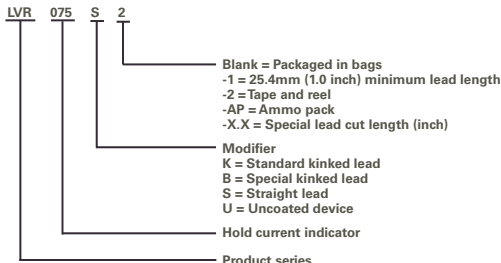
Applications ▶

- Factory automation
- HVAC systems
- Heavy equipment
- Packaging equipment
- Motor manufacturers
- Food processing equipment
- Elevators

Product Specifications ▶

Part Number	Wiring Type	Current Rating (A)	Rated Voltage (VAC max.) Phase-Neutral/Phase-Phase	Length (inches)	Width (inches)	Height (inches)	Insertion Loss (dB Line-Ground) at 500 kHz	Insertion Loss (dB Line-Line) at 500 kHz	Safety Agency Approvals
6FCD10	Delta	6	277/480	6.0	4.3	2.30	56	62	UL
16FCD10	Delta	16	277/480	7.2	5.48	2.55	75	75	UL
25FCD10	Delta	25	277/480	9.69	6.3	2.55	75	75	UL
36FCD10	Delta	36	277/480	9.69	6.3	2.55	75	75	UL
50FCD10	Delta	50	277/480	10.5	6.3	2.54	75	75	UL
63ADT6	Delta	63	277/480	14	10	3.50	85	100	UL
63ADT6S	Delta	63	277/480	19	10	4.50	45	100	UL
100ADT6	Delta	100	277/480	19	10	4.50	85	100	UL
100ADT6S	Delta	100	277/480	19	10	4.50	60	100	UL
160ADT6	Delta	160	277/480	19	10	4.50	80	100	UL
160ADT6S	Delta	160	277/480	22	13	4.50	58	100	UL
200ADT6	Delta	200	277/480	19	10	4.50	77	100	UL
200ADT6S	Delta	200	277/480	22	13	4.50	54	100	UL
3AYO1	Delta or wye	3	250/440	3.37	2.07	1.53	23	12	UL, CSA, VDE
6AYO1	Delta or wye	6	250/440	3.37	2.07	1.53	23	18	UL, CSA, VDE
10AYO1	Delta or wye	10	250/440	3.37	2.07	1.53	1	18	UL, CSA, VDE
20AYO1	Delta or wye	20	250/440	3.37	2.07	1.53	7	82	UL, CSA, VDE
16AYA6A	Delta or wye	16	250/440	7.91	4.37	1.97	52	85	UL
25AYA6A	Delta or wye	25	250/440	7.91	4.37	1.97	46	86	UL
36AYA6A	Delta or wye	36	250/440	7.91	4.37	2.56	49	85	UL
50AYA6A	Delta or wye	50	250/440	7.91	4.37	2.56	43	82	UL
16AYC10B	Delta or wye	16	277/480	6.69	4.37	2.56	88	90	UL
25AYC10B	Delta or wye	25	277/480	9.96	5.08	2.52	96	95	UL
36AYC10B	Delta or wye	36	277/480	10.35	5.08	2.52	90	87	UL
63AYC10B	Delta or wye	63	277/480	10.89	5.08	2.52	88	77	UL
80AYC10B	Delta or wye	80	277/480	12.09	5.55	5.55	88	77	UL
110AYC10B	Delta or wye	110	277/480	12.09	5.55	5.55	85	72	UL
150AYC10B	Delta or wye	150	277/480	12.09	5.55	5.55	97	66	UL
150AYC10B-95	Delta or wye	150	277/480	12.09	5.55	5.55	100	67	UL
180AYC10B	Delta or wye	180	277/480	15.71	5.55	5.55	94	64	UL
20AYP6C	Delta or wye	20	250/440	8.82	5.57	2.56	55	65	UL, CSA, VDE
30AYP6C	Delta or wye	30	250/440	8.82	5.57	2.56	55	65	UL, CSA, VDE
45AYPC	Delta or wye	45	250/440	9.43	6.92	4.82	49	60	UL, CSA, VDE
60AYP6C	Delta or wye	60	250/440	9.43	6.92	4.82	50	60	UL, CSA, VDE
20AYT6C	Delta or wye	20	250/440	13.82	5.57	2.56	75	70	UL, CSA, VDE
30AYT6C	Delta or wye	30	250/440	13.82	5.57	2.56	75	75	UL, CSA, VDE
45AYT6C	Delta or wye	45	250/440	13.83	6.92	4.82	75	75	UL, CSA, VDE
60AYT6C	Delta or wye	60	250/440	13.83	6.92	4.82	75	75	UL, CSA, VDE
400CFN12	Delta	400	277/480	25	12	6.5	82	66	UL

Arrow Industrial Selector Guide



Part numbering system for PolySwitch LVR devices

LVR Series—Line Voltage PPTC (Polymeric Positive-Temperature Coefficient) Devices for up to 265 VAC

PolySwitch™ LVR devices help protect electric motors and transformers used in commercial and home appliances from failures caused by mechanical overload, overheating, stall, lost neutral, and other potentially damaging conditions. This series includes components that are rated for line voltages of 120 VAC and 240 VAC, and up to 2A of operating current at +20 degrees Celsius.

Features ▶

- Polymeric positive-temperature coefficient (PPTC) device
- Solid-state construction
- Line voltage rated up to 265 VAC
- RoHS compliant
- UL/CSA/TUV recognition

Benefits ▶

- Resettable device helps reduce repair cost
- Senses both current and temperature
- Low initial inline resistance
- No cycling in tripped state
- Rugged handling

Applications ▶

- Motor and compressor-winding protection
- Primary-side overcurrent protection for transformers
- Secondary-side protection for specific components on printed circuit boards
- MOSFET protection
- Replaces bi-metal breakers in certain applications

Product Specifications ▶

Part Number	I_{HOLD} (A)	I_{TRIP} (A)	V_{max} (V)	V_{max} Interrupt (VAC)	I_{max} (A)	PD Typical (W)	Maximum Time-to-Trip (A)	Maximum Time-to-Trip (s)	R_{min} (Ω)	R_{max} (Ω)	R1 Maximum (Ω)
LVR005K	0.05	0.12	240	265	1.0	0.7	0.25	15.0	18.50	31.00	65.00
LVR005S	0.05	0.12	240	265	1.0	0.7	0.25	15.0	18.50	31.00	65.00
LVR008K	0.08	0.19	240	265	1.2	0.8	0.40	15.0	7.40	12.00	26.00
LVR008S	0.08	0.19	240	265	1.2	0.8	0.40	15.0	7.40	12.00	26.00
LVR012K	0.12	0.30	240	265	1.2	1.0	0.60	15.0	3.00	6.50	12.00
LVR012S	0.12	0.30	240	265	1.2	1.0	0.60	15.0	3.00	6.50	12.00
LVR016K	0.16	0.37	240	265	2.0	1.4	0.80	15.0	2.50	4.10	7.80
LVR016S	0.16	0.37	240	265	2.0	1.4	0.80	15.0	2.50	4.10	7.80
LVR025K	0.25	0.56	240	265	3.5	1.5	1.25	18.5	1.30	2.10	3.80
LVR025S	0.25	0.56	240	265	3.5	1.5	1.25	18.5	1.30	2.10	3.80
LVR033S	0.33	0.74	240	265	4.5	1.7	1.65	21.0	0.77	1.24	2.60
LVR033K	0.33	0.74	240	265	4.5	1.7	1.65	21.0	0.77	1.24	2.60
LVR040K	0.40	0.90	240	265	5.5	2.0	2.00	24.0	0.60	0.97	1.90
LVR040S	0.40	0.90	240	265	5.5	2.0	2.00	24.0	0.60	0.97	1.90
LVR055K	0.55	1.25	240	265	7.0	3.4	2.75	26.0	0.45	0.73	1.45
LVR055S	0.55	1.25	240	265	7.0	3.4	2.75	26.0	0.45	0.73	1.45
LVR075S	0.75	1.5	240	265	7.5	2.6	3.75	18.0	0.32	0.48	0.84
LVR100S	1.00	2.00	240	265	10.0	2.9	5.00	21.0	0.22	0.33	0.58
LVR125S	1.25	2.50	240	265	12.5	3.3	6.25	23.0	0.17	0.18	0.44
LVR200S	2.00	4.00	240	265	20.0	4.5	10.00	28.0	0.09	0.13	0.22
LVRL075S	0.75	1.52	120	135	7.5	1.8	3.75	14.0	0.25	0.40	0.69
LVRL100S	1.00	2.00	120	135	10.0	2.2	5.00	13.6	0.18	0.27	0.47
LVRL125S	1.25	2.50	120	135	12.5	2.0	6.25	18.0	0.12	0.18	0.32
LVRL135S	1.35	2.70	120	135	13.5	2.8	6.75	20.0	0.11	0.17	0.30
LVRL200S	2.00	4.00	120	135	20.0	3.9	10.00	36.0	0.08	0.12	0.21



Raychem Metal Oxide Varistors

Tyco Electronics' Raychem Metal Oxide Varistor (MOV) devices help provide protection against over-voltage faults such as lightning, power contact, and power induction, for a wide variety of power systems. Suitable for a broad range of applications, these devices help protect valuable equipment from potential power surge damage by clamping high-energy, short-duration impulses. Their high current handling, energy absorption capability, and fast response times help protect against transient faults.



Features ▶

- Diameter sizes: 5 mm, 7 mm, 10 mm, 14 mm, 20 mm
- Broad varistor voltage range: 18V to 1800V
- Surge capabilities: standard, high surge, extra-high surge
- Lead types: straight, kinked, other special lead types
- Packaging options: bulk, tape and reel, ammo pack

Benefits ▶

- Helps provide over-voltage fault protection for a wide variety of power systems
- Assists designers to meet UL, CSA, and VDE standards
- Helps reduce warranty and service costs

Applications ▶

- Power systems
- Surge strips
- Security systems
- Motor protection
- Household appliances

Product Specifications ▶

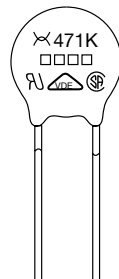
Product Series	Diameter of Disc (mm)	Surge Series	Maximum Surge Current (8 x 20 μ s) Standard	Maximum Surge Current (8 x 20 μ s) High	Maximum Surge Current (8 x 20 μ s) Extra High	Varistor Voltage Tolerance (%)	Varistor Voltage V@1 mA	Maximum Voltage AC (VRMS)	Maximum Voltage DC (V)
ROV05	05	Standard/High	100/400	250/800	NA	10/15/20	18-750 V@0.1mA	11-460	14-615
ROV07	07	Standard/High	250/1200	500/1750	NA	10/15/20	18-820	11-510	14-670
ROV10	10	Standard/High	500/2500	1000/3500	NA	10/15/20	18-1800	11-1000	14-1465
ROV14	14	Standard/High/Extra High	1000/4500	2000/6000	6500	10/15/20	18-1800	11-1000	14-1465
ROV20	20	Standard/High/Extra High	2000/6500	3000/10000	12500	10/15/20	18-1800	14-1000	18-1465

Agency Recognition for Radial-Leaded Metal Oxide Varistors*	Standard	Title	File Number
	UL1414**	Across-the-line components	E223034
	UL1449** (2nd Edition)	Transient voltage surge suppressors	E223033
	CSA	NA	NA
	VDE	Accessories and parts for electronic equipment	220978
		Varistors for use in electronic equipment	40006997

*Each part will meet different certifications. To determine which certifications a part meets please refer to the Standard Series Specifications in the ROV Devices Datasheet (PDF).

**For UL 1449 (2nd edition), the maximum clamping voltage is measured at 500A.

Related Information ▶



- ⊗ : Manufacturer's Mark
- 471 : Varistor Voltage Indicator
- K : Varistor Voltage Tolerance
- : Lot Identification



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