

## MV Series Medium Voltage Surge Protective Device



Monitoring  
Not Shown



Medium Voltage Parallel Suppressor  
designed for Oil & Gas, Water, Chemical,  
Large Industrial & Heavy Duty Applications  
at Service Entrance, Distribution and  
Individual Equipment

### Specifications

- Available Surge Current Ratings
  - 120kA per phase
  - 240kA per phase
- Proven 'large block' 40mm MOV Technology
- Protection Modes: All Modes L-L & L-G (Normal mode & Common mode)
- Directly connected MOV suppression elements
- NEMA 4 (IP66) Heavy Gauge Steel Enclosure
- Dimensions
  - 31cm (12") X 31cm (12") X 15.5cm (6")
- Weight:
  - Without monitoring: 29.5kg (65 Lbs)
  - With monitoring: 34.5kg (75 Lbs)
- Relative Humidity Range: 0 – 100% Non-Condensing
- Operating Frequency: 50Hz, 60Hz
- Operating Temperature: -40°C (-40°F) to +85°C (+185°F)

### Quality

- Seven (7) Year Warranty on TVSS
- One (1) Year Warranty on Diagnostic Instrumentation
- Every unit Burn-in Tested Prior to Shipment
- ANSI/IEEE C62.11
- APT's Quality Management System is ISO 9001:2000 Certified

### Design Features

- Low clamping voltage for maximum equipment protection
- Parallel design MOV suppression allows installation flexibility
- Bi-directional operation for positive & negative surges)
- Solid state, fully automatic action & reset
- Intended for High Energy applications including all IEEE C62.41.2 Category A, B & C High Applications
- Pre-wired with 5 feet (1.3 Meters) #6 stranded leads
- Includes internally threaded conduit hub
- External Mounting Flanges
- Inorganic silica particle encapsulation
  - Noncombustible at extreme temperature
  - Superior gaseous expansion tolerance
- Double insulated against ground fault or arcing with separate polypropylene and polyethylene layers
- Elastomeric Ceramgard® potting protects against environmental contaminants
- Fusing - coordinate to electrical system
- High Voltage warning labels standard

### Optional Monitoring Package

- Allows for on-site or remote monitoring of suppression circuits
  - Indicator lights for each phase
  - Surge Counters for each phase
  - Dry Contacts for each phase
  - Available on 120kA models only

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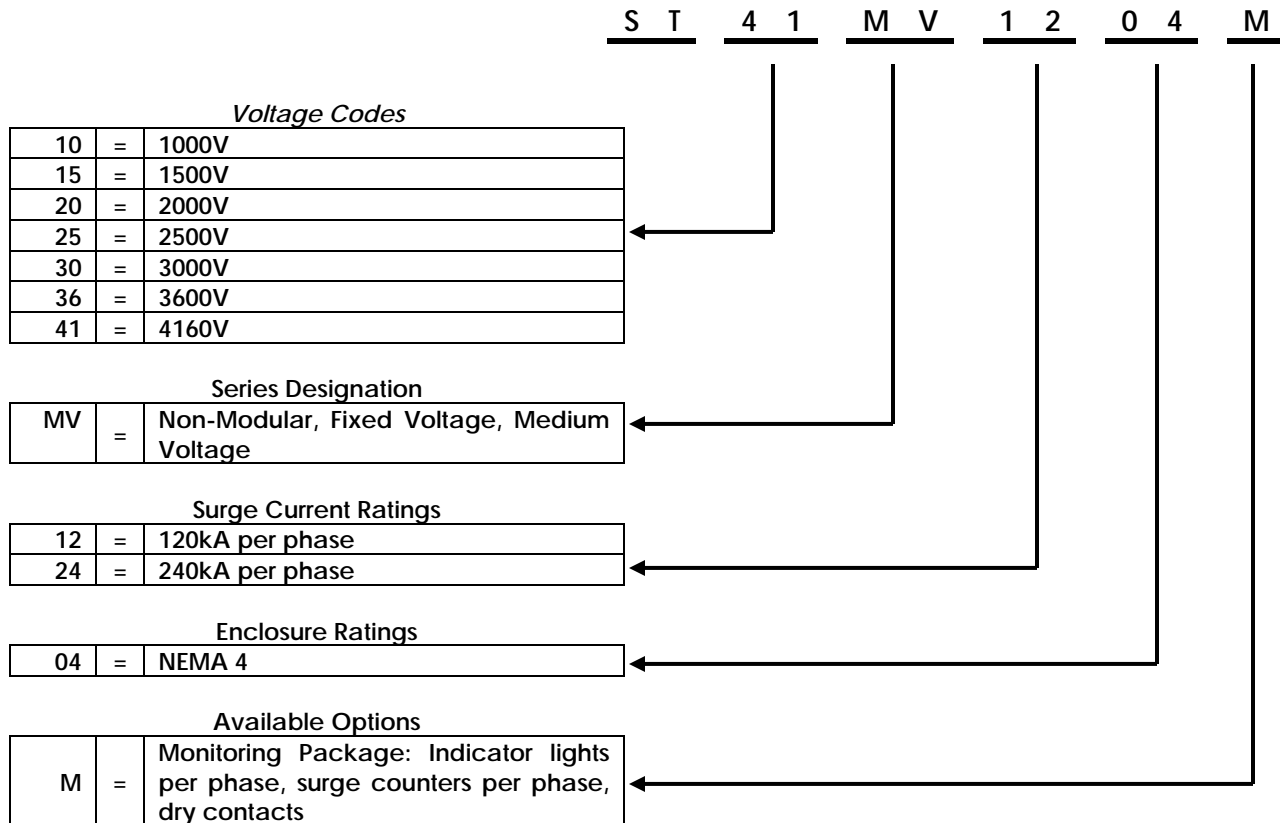
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# STMV Series Medium Voltage Surge Protective Device

Model	Service Voltage	MCOV
ST10MV	1000VAC	1200VAC
ST15MV	1500VAC	2075VAC
ST20MV	2000VAC	2400VAC
ST25MV	2500VAC	3400VAC
ST30MV	3000VAC	3600VAC
ST36MV	3600VAC	4800VAC
ST41MV	4160VAC	5600VAC

Example Part Number: ST41MV1204M = 4160V, 120kA per phase, NEMA 4 Enclosure, Monitoring Package Included



**Note: Monitoring Package available only on 120kA per phase models**