

The MVF consists of a Medium Voltage parallel SPD and stand-alone, three phase fuse box. The MVF is designed for Oil and Gas, Water/Wastewater, Chemical, Large Industrial and Heavy Duty Applications at Service Entrance, Distribution locations as well as Individual Equipment. The Three Phase Fuse Box component of the MVF is REQUIRED to be installed on the line side of, and in-line with, the Medium Voltage SPD component as dedicated overcurrent protection and to safely disconnect the SPD from the electrical system in the event of an SPD failure.

### **MVF SPD Component Design Features**

- Low clamping voltage for maximum equipment protection
- Parallel design MOV suppression allows installation flexibility
- Bi-directional operation for positive and negative surges
- Solid state, fully automatic action and reset
- Large-Block, 40mm, MOVs
- Solid State Bidirectional Operation
- Intended for High Energy applications including all IEEE C62.41.2 Category A, B and C High Applications
- All Mode (6 Modes) dedicated (A-B, B-C, A-C, A-G, B-G, C-G)
- Pre-wired with 2' (0.61 Meters) #6 stranded leads for connection to Fuse Box
- Includes internally threaded conduit hub 1 1/4"
- 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
- High Voltage warning labels standard

### **MVF SPD Component Specifications**

- Surge Current Rating: 120kA per phase
- Proven 'large block' 40mm MOV Technology
- Protection Modes: All Modes L-L and L-G (Normal mode & Common mode)
- Directly connected MOV suppression elements
- NEMA 4 (IP66) Heavy Gauge Steel Enclosure
- Dimensions: 31cm x 31cm x 15.5cm (12" x 12" x 6")
- Weight: 29.5kg (65 Lbs)
- Relative Humidity Range: 0 – 95% Non-Condensing
- Operating Frequency: 50Hz, 60Hz
- Operating Temperature: -40°C (-40°F) to +85°C (+185°F)

### **MVF SPD Quality**

- Seven (7) Year Warranty on SPD
- Every unit Burn-in tested prior to shipment
- ANSI/IEEE C62.11

# MVF - Medium Voltage Surge Protective Device + Three Phase Fuse Box

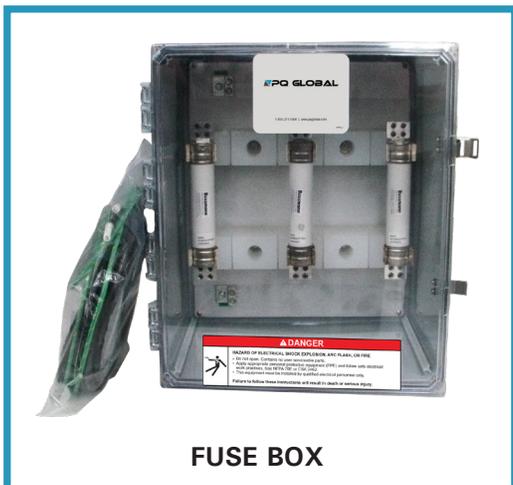


## Optional Monitoring Package

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

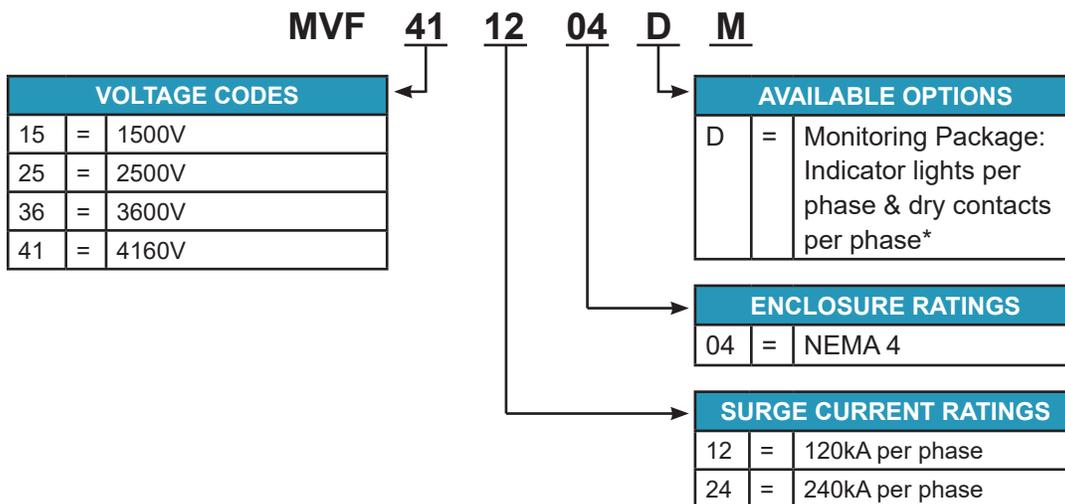
## Fuse Box Component Design Features

- Designed to be installed in front of and in-line with PQ Global's MV Medium Voltage SPD as part of the MVF.
- NEMA 4X Polycarbonate enclosure with stainless steel lockable latches.
- All connecting wires included
  - 2.4m (8 ft) of #6 AWG, 25kV wire each (3 Phase, 1 Ground).
  - Additional 6kV sleeving on each wire for added safety.
- 2 – 1 1/2" threaded hubs included to enter and exit enclosure.
- Includes 3 Bussman model 5.5CAVE (5.5kV, 15A).
- Includes 6" of conduit for SPD to Fuse Box connection.



## Fuse Box Component Specifications

- Enclosure Dimensions: 457.2mm x 406.4mm x 254mm (18" x 16" x 10")
- Weight: 15.9 kg (35 lbs)
- Maximum Voltage: 5500VAC
- Maximum Current: 15 Amp
- Torque: 80 Inch-Lbs
- Relative Humidity Range: 0 – 95% Non-Condensing
- Operating Frequency: 50Hz, 60Hz
- Operating Temperature: -40°C (-40°F) to +85°C (+185°F)



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