



**Quality**

**Reliability**

**Value**

**Model # 70SFMT-32F**

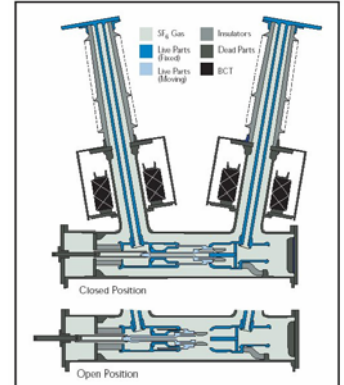


**MEPPI Design Quality**

- ❖ SST Ground Pads
- ❖ Adjustable Legs
- ❖ Galvanized Frame
- ❖ Aluminum Tanks
- ❖ Slip-Over BCTs
- ❖ Protected Linkage & Gas System (inside cabinet)
- ❖ Optional Composite Bushings
- ❖ Meets ANSI and IEC Std.'s
- ❖ **Short Lead Times**

**MEPPI Technology**

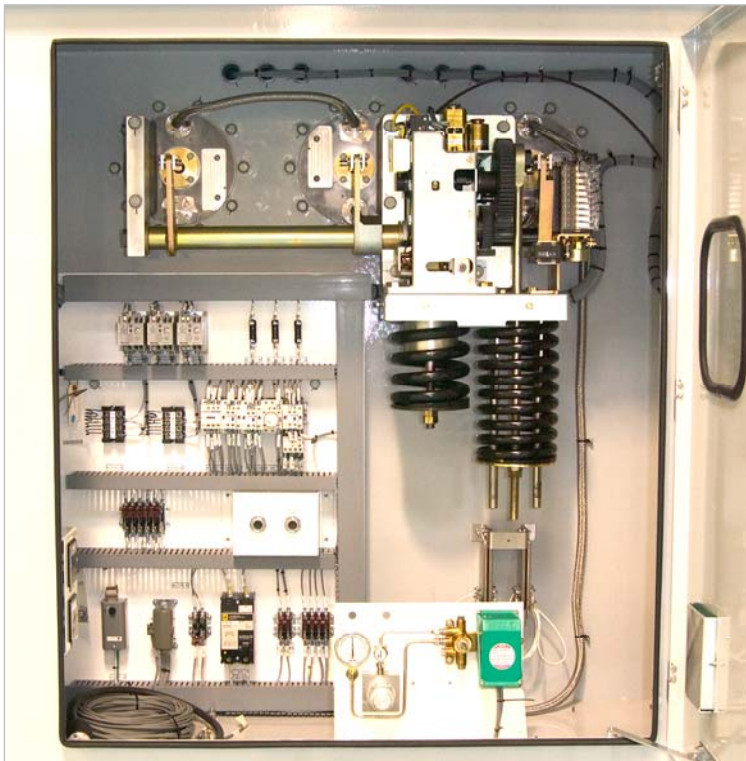
- ❖ True Puffer Interrupter
- ❖ Fifteen minute contact inspection/change-out
- ❖ Two-Part Gas Sealing System: EPR O-Rings at all static joints, RTV to seal-out the external environment
- ❖ Totally-enclosed Gas Handling System
- ❖ Minimal connection interfaces



**Ratings**

Breaker Type	70SFMT- 32F
Maximum Voltage	72.5kV
Nominal Voltage	34.5kV - 69kV
Full Load Current	1,200A, 2,000A, 3,000A
Short Circuit Current	31.5kA Interrupting
Interrupting Time	3 Cycles
Frequency	60Hz
Full Wave Withstand	350kV BIL
Bushing Creep (Standard)	1315mm (51.55 in.)
Low Frequency Withstand	160kV
Permissible Trip Delay	2 seconds

Close & Latch Capabilities	60kA RMS; 85kA Crest
Rapid Duty Cycle	O-0.3s-CO-15sec-CO-50sec-CO
Opening Time	28ms (1.7 cycles)
Closing Time	100ms (6.0 cycles)
Reclosing Time	333ms (20.0 cycles)
Gas Pressure	71psig (5kg/cm <sup>2</sup> ) @ 68°F
Rated Altitude	1,000 m (3,300 ft.)
Temperature Range (Standard)	40°C to -30°C (105 to -22°F)
Min. Temperature w/Heaters	-50°C (-58°F)
Seismic Level	IEEE 693 (1997)



**Totally Enclosed Gas System and Operating Linkage  
(Safety Shield Removed)**



**Slip-Over BCTs  
Optional Composite Bushings**



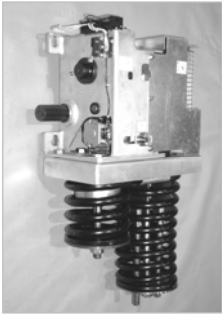
**Superior Mitsubishi Contacts and Puffer Design  
Inspect/Change Contacts with Bushings In Place**



**Quality**

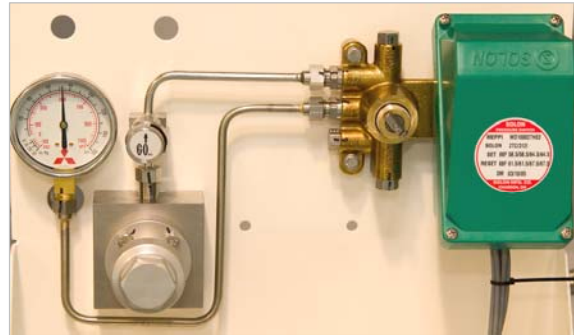
**Reliability**

**Value**



**BH-3 Mechanism**

- ❖ Helical Spring Open/Close
- ❖ 3 Cycle Interruption
- ❖ Universal Motor
- ❖ Dual Trip Coils Available
- ❖ 20a, 20b Auxiliary Switches
- ❖ Two Lube Points Every 6 Years
- ❖ 10,000 Mechanical Operations



**SF<sub>6</sub>  
Monitoring  
System  
(Totally Enclosed)**

Total Weight.....3993 lb (1815kg)  
SF6 Gas Weight.....18 lb. (8kg)  
Rated Pressure.....71 psig (5kg/cm2)  
Insulator  
Type.....Gas-Filled  
Standard Creep.....51.77 in (1315mm)

Surface Treatments  
Frame.....Hot Dip galvanized  
Control Housing.....ANSI 70 Light Gray  
SF6 Tanks.....Unfinished Aluminum  
BCT Covers.....Unfinished Aluminum  
Porcelain.....Glaze, ANSI 70

Dynamic Loading  
Horizontal.....2205 lb. (1000kg)  
Vertical Up.....2205 lb. (1000kg)  
Vertical Down.....3970 lb. (1800kg)  
Vertical Forces Add to or Subtract from  
Breaker Weight

