



# SEMIFUSE<sup>®</sup> SFRV Mains Rated PTC Fuses

Our new SFRV series PTC fuses provide re-settable short-circuit protection in mains voltage applications e.g. transformers, electric motors, lighting etc. Current ratings from 0.05 ~ 2.0A.

## Characteristics

## Agency Approvals; UL,C-UL and TÜV

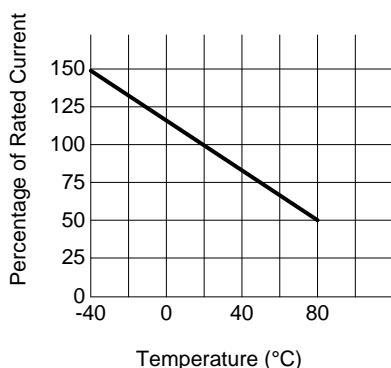
Part Number	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>d</sub> <sup>max</sup> (W)	Max Time to Trip @ 23°C 5 x lh		Resistance @ 23°C		Maximum Dimension (mm)		
						Current (A)	Time (Sec.)	R <sub>min</sub> (Ω)	R <sub>1max</sub> (Ω)	A	B	C
SFRV005F	0.05	0.12	240	1.0	0.7	0.25	15.0	18.50	65.00	8.3	10.7	5.1
SFRV008F	0.08	0.19	240	1.2	0.8	0.40	15.0	7.40	26.00	8.3	10.7	5.1
SFRV012F	0.12	0.30	240	1.2	1.0	0.60	15.0	3.00	12.00	8.3	10.7	5.1
SFRV016F	0.16	0.37	240	2.0	1.4	0.80	15.0	2.50	7.80	9.9	12.5	5.1
SFRV025F	0.25	0.56	240	3.5	1.5	1.25	18.5	1.30	3.80	9.6	17.4	5.1
SFRV033F	0.33	0.74	240	4.5	1.7	1.65	18.5	0.83	2.60	11.4	16.5	5.1
SFRV040F	0.40	0.90	240	5.5	2.0	2.00	24.0	0.60	1.90	11.5	19.5	5.1
SFRV055F	0.55	1.25	240	7.0	3.4	2.75	26.0	0.45	1.45	14.0	21.7	5.1
SFRV075F	0.75	1.50	240	7.5	2.6	3.75	18.0	0.32	0.84	11.5	23.4	5.1
SFRV100F	1.00	2.00	240	10.0	2.9	5.00	21.0	0.22	0.58	18.7	24.4	10.2
SFRV125F	1.25	2.50	240	12.5	3.3	6.25	23.0	0.17	0.44	21.2	27.4	10.2
SFRV200F	2.00	4.00	240	20.0	4.5	10.00	28.0	0.09	0.22	24.9	33.8	10.2

## Definitions

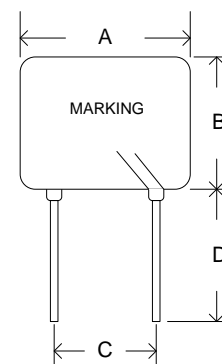
- I<sub>hold</sub> = Hold current, maximum current PTC will pass without tripping in 23°C still air.
- I<sub>trip</sub> = Trip current, minimum current at which the PTC will trip in still air at 23°C.
- V<sub>max</sub> = Maximum voltage PTC can withstand without damage at rated current (I<sub>max</sub>)
- I<sub>max</sub> = Maximum fault current PTC can withstand without damage at rated voltage (V<sub>max</sub>)



## Thermal De-Rating Curve



## Configuration



Dimensions – see above table

**CAUTION:** Operating beyond the specified maximum ratings may result in device damage and cause possible arcing and flame.