

FEATURES

Low hold current, Solid state, Radial leaded product idea for up to 265V_{AC/DC}
 Application: Line Voltage Power Supply, Transformer and appliances
 Operation Current: 50mA ~ 550mA
 Maximum Operating Voltage: 240V_{AC/DC}
 Maximum Interrupt Voltage: 265V_{AC/DC}
 Temperature Range: -40°C to 85°C

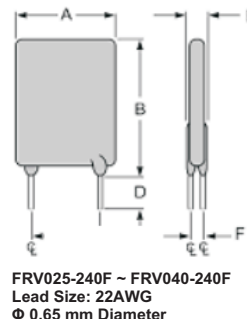
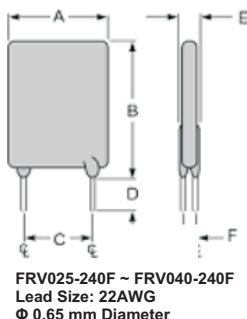
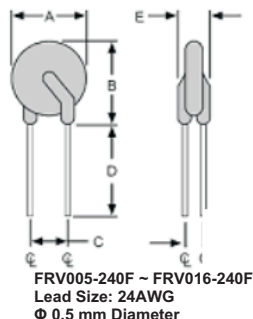
AGENCY RECOGNITION

- UL (E211981)
- C-UL (E211981)
- TUV (R50021651)

ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current	Trip Current	Max. Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
	I _H , A	I _T , A	at 5xI _H , S	I _{MAX} , A	V _{MAX} , V _{AC/DC}		R _{MIN}	R _{1MAX}
						Pd, W	OHMS	OHMS
FRV005-240F	0.05	0.12	15.0	1.0	240	0.70	18.50	65.00
FRV008-240F	0.08	0.19	15.0	1.2	240	0.80	7.40	26.00
FRV012-240F	0.12	0.30	15.0	1.2	240	1.00	3.00	12.00
FRV016-240F	0.16	0.37	15.0	2.0	240	1.40	2.50	7.80
FRV025-240F	0.25	0.56	18.5	3.5	240	1.50	1.30	3.80
FRV033-240F	0.33	0.74	18.5	4.5	240	1.70	0.83	2.60
FRV040-240F	0.40	0.90	24.0	5.5	240	2.00	0.60	1.90
FRV055-240F	0.55	1.25	26.0	7.0	240	3.40	0.45	1.45

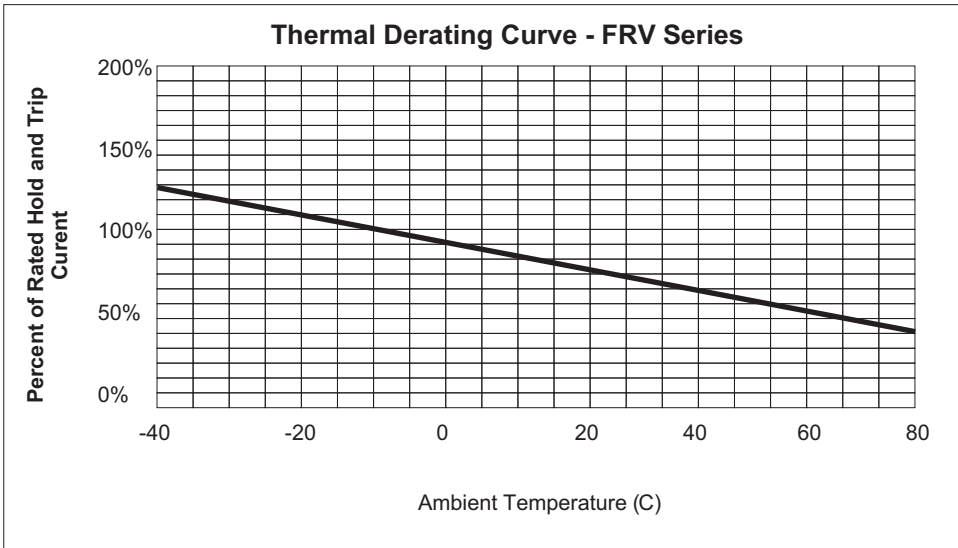
I_H=Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T=Trip current-minimum current at which the device will always trip at 23°C still air.
 V_{MAX}=Maximum voltage device can withstand without damage at its rated current.
 I_{MAX}=Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).
 Pd=Typical power dissipated from device when in the tripped state in 23°C still air environment.
 R_{MIN}=Minimum device resistance at 23°C.
 R_{1MAX}=Maximum device resistance at 23°C, 1 hour after tripping.
 Physical specifications:
 Lead material: FRV005-240F ~ FRV016-240F Tin plated copper, 24AWG.
 FRV025-240F ~ FRV040-240F Tin plated copper, 22AWG.
 FRV055-240F Tin plated copper, 20AWG.
 Soldering characteristics: MIL-STD-202, Method 208E.
 Insulating coating: Flame retardant epoxy, meets UL-94V-0 requirement.



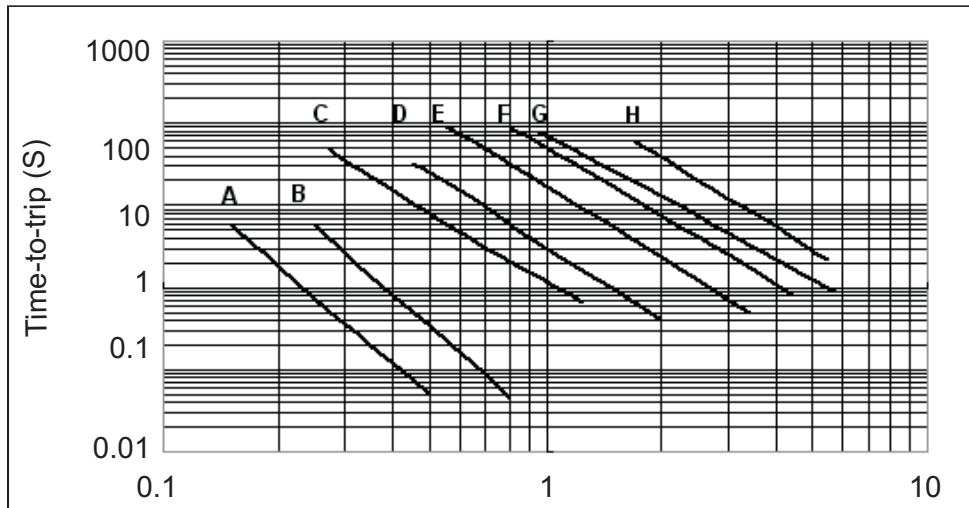
FRT PRODUCT DIMENSIONS (MILLIMETERS)

Part Number	A	B	C	D	E
	Maximum	Maximum	Typical	Minimum	Maximum
FRV005-240F	8.3	10.7	5.1	7.6	3.8
FRV008-240F	8.3	10.7	5.1	7.6	3.8
FRV012-240F	8.3	10.7	5.1	7.6	3.8
FRV016-240F	9.9	12.5	5.1	7.6	3.8
FRV025-240F	9.6	17.4	5.1	7.6	3.8
FRV033-240F	11.4	16.5	5.1	7.6	3.8
FRV040-240F	11.5	19.5	5.1	7.6	3.8
FRV055-240F	14.0	21.7	5.1	7.6	4.1

■ THERMAL DERATING CURVE



■ TYPICAL TIME-TO-TRIP AT 23°C



- A = FRV005-240F
- B = FRV008-240F
- C = FRV012-240F
- D = FRV016-240F
- E = FRV025-240F
- F = FRV033-240F
- G = FRV040-240F
- H = FRV055-240F

NOTE: All specifications subject to change without notice.