



MSTronic Co., Ltd.

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MS-T410G

4 Ports Network Lightning/Surge Protector
5Gigabit 10KA PoE Compatible

Feature

- + **Shielded RJ45 jack and metal housing for EMI noise suppression**
- + **CAT5e/CAT6/CAT6a compatible**
- + **5 Gigabit Ethernet available**
- + **Support 4 Ports PoE Surge Protector**
- + **Integrated mounting brackets**
- + **DIN rail mount available (Option Kit)**
- + **802.3af/at/bt/PoH compliant**
- + **AC/DC, DC/DC PoE available**

Specification

1. Nominal voltage operating DC voltage: 56 V
2. Max. continuous operating DC voltage: 58V
3. DC breakdown voltage: 75V
4. Max. continuous DC voltage pair-pair (PoE): 58V
5. Nominal current: 2.2 A(Each pair of lines)@ 25°C
6. Nominal discharge current line-line: 17A (8/20μs)
7. Nominal discharge current line-FG: 100A (10/1000μs,300times with 3mins interval)
8. Nominal discharge current line-FG: 10KA (8/20μs,10 times with 3mins interval)
9. Voltage protection level line- FG Breakdown Voltage: 64V ~ 650V (for rising voltage 100V/s and 1000V/us)
10. Voltage protection level line- line Breakdown Voltage: 24V ~ 650V (for rising voltage 100V/s and 1000V/us)
11. Voltage protection level line-line for POE In Maximum Breakdown Voltage : 6V ~ 18.3V @IPP = 17A(8/20uS)
12. Capacitance line-line ≤ 3 PF
13. Capacitance line-FG ≤ 3 PF



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14. Capacitance line-FG ≤ 150 PF@(3-FG) , (4-FG)
15. Operating temperature range -40°C to +85°C
16. Connection (input / output) RJ45 socket
17. Pinning 1 / 2, 3 / 6, 4 / 5, 7 / 8
18. Data Rate : Ethernet PoE 5Gbps @ CAT5e 90m (pin to pin)
19. Weight : 376g
20. Dimensions : 110mmx110mmx25mm
21. Each pair of lines Over-Current Protection , (1,2/3,6) & (4,5/7,8)

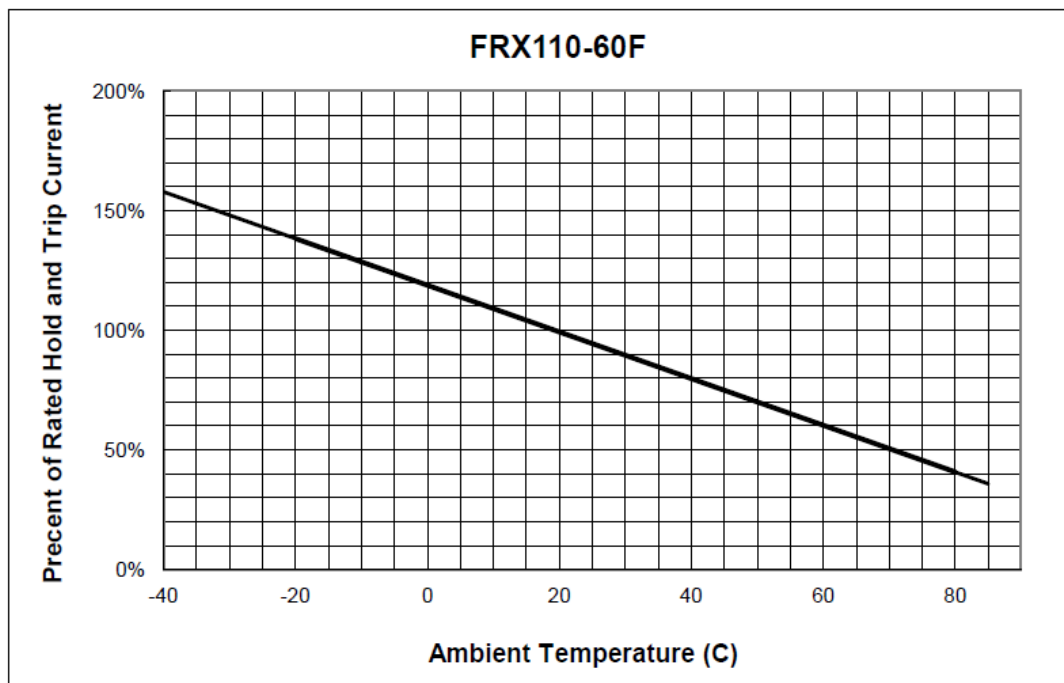
Over-Current Protection Turn-off point 2200 mA ~4400mA

3. Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Max. Current	Rated Voltage	Typ. Power	Resistance	
	I _H , A	I _T , A	at 5xI _H ,s	I _{MAX} , A	V _{MAX} , V _{DC}	P _d , W	R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	at 5xI _H ,s	I _{MAX} , A	V _{MAX} , V _{DC}	P _d , W	Ohms	Ohms
FRX110-60F	1.10	2.20	8.2	40	60	1.50	0.15	0.38

Temperature change corresponding to operating current :

5. Thermal Derating Curve





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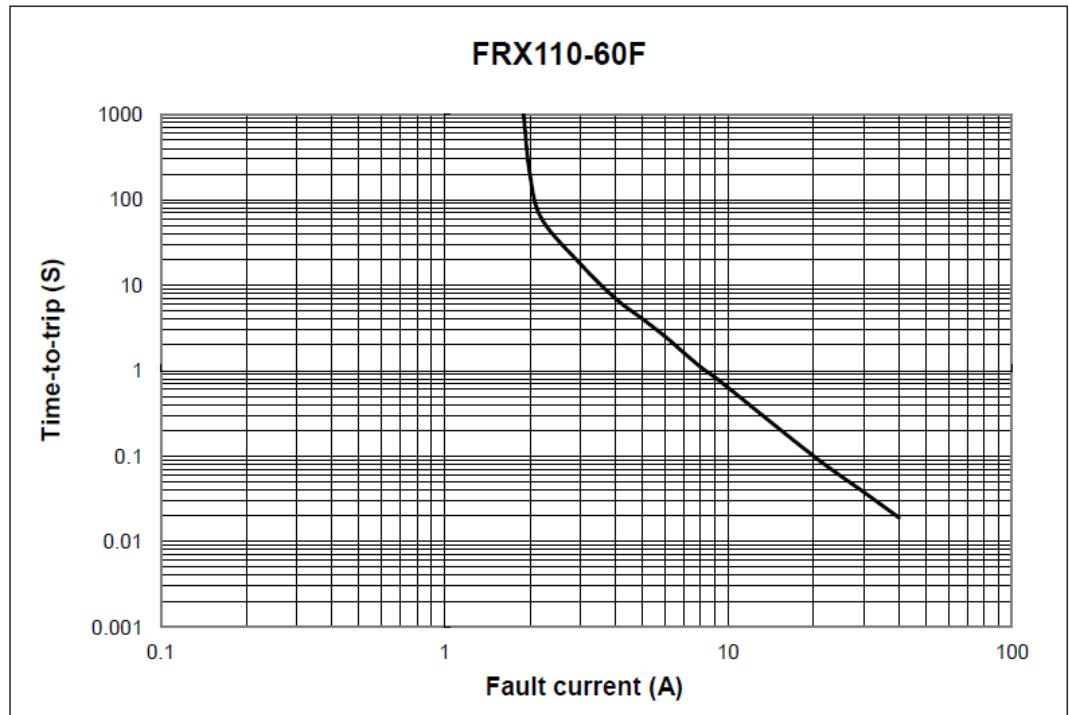
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6. Typical Time-To-Trip at 23°C





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Option: DIN rail mounting kit

Application

