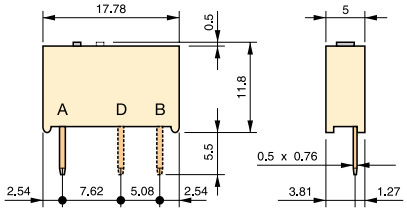
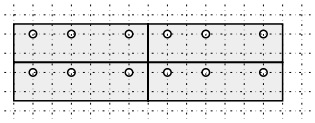
Subminiature circuit breaker for printed circuit board
Series “TINY”

TY...

Spacing 5 mm *(.196”)*





Rating ≥ 1.6 A : Leads A and B

Rating < 1.6 A : Leads A and D

Layout on spacing 2.54 mm grid.
Thickness P.C.B. : 0.6 to 3.2 mm.
P.C.B. holes DIA 1 mm.

Description

The “TINY” subminiature circuit breaker is equipped with a “thermal” type detection device. Therefore, it can withstand transitory currents and avoid untimely tripping which the capacitors fitted in the protected circuit may cause.

As this device has no polarity, the “TINY” can be used either with alternating current or with direct current.

It is fitted with a sliding resetting switch which makes the position of contacts visible by its position. The “TINY” circuit breaker allows:

- **resetting after automatic tripping**
- **manual tripping** (switch function)

As it is compact with a relatively high rupturig capacity, this circuit breaker is highly suitable to protect printed circuit boards against high currents and short circuits.

A rupture isolates the faulty line and prevents the other components from being destroyed in cascade.

Rating

	Rating in Amps
Rating marked on the casing	**0.10**
	0.20
	0.40
	0.60
	1.00
	1.60
	3.00

For other P.C.B. applications, it is possible to use our screw flush mounting GD - GN - GV series.

See our circuit breaker catalog for specifications.

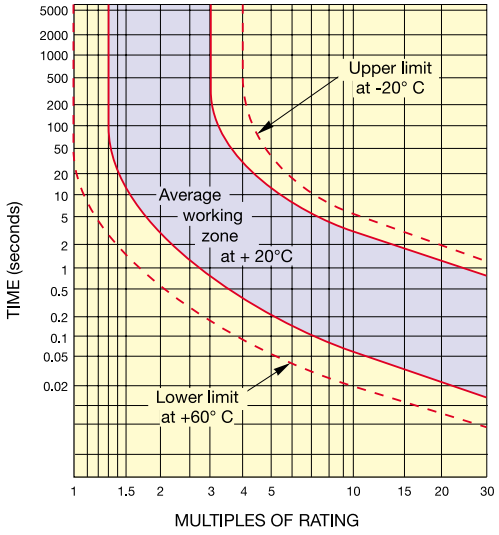
Type / Part number

Type	Part number
Standard terminals (straight)	
TY 0.10	**809 012 001**
TY 0.20	**809 014 001**
TY 0.40	**809 017 001**
TY 0.60	**809 019 001**
TY 1	**809 023 001**
TY 1.6	**809 026 001**
TY 3	**809 032 001**

Curved terminals on request

CNET CE

Tripping curves with no warm-up time



Characteristics

Operating voltage	24 V DC or 24 V AC (Any other voltage, consult us)

Rupturing capacity

See curves

At 24 V DC, resistive load	Presumed current	True current	Breaking time at 20° C
Rating 0.10 A		2 A	150 - 500 ms
0.20 A	10 A	4 A	150 - 500 ms
0.40 A	14 A	10 A	150 - 400 ms
0.60 A	15 A	12 A	100 - 400 ms
1.00 A	14 A	13 A	200 - 700 ms
1.60 A	33 A	32 A	50 - 150 ms
3.00 A	46 A	45 A	80 - 300 ms

Others characteristics

Lifetime (O + F)	500 cycles under 24 V DC and rating current
Breakdown voltage	> 1 500 V
Power consumption under rated current	< 0.20 Watt
Lifetime of contacts	500 cycles under 24 V DC, 5 Amps
Surge voltage withstanding	3 kv surge (1.2/50 µs)
Contacts	Silver alloy
Ambient temperature	-20° C to 60° C
Weight	1.2 g

Accessories

Type	Part number