

Thermal motor protector
Temperature limiter
Thermal cut-out

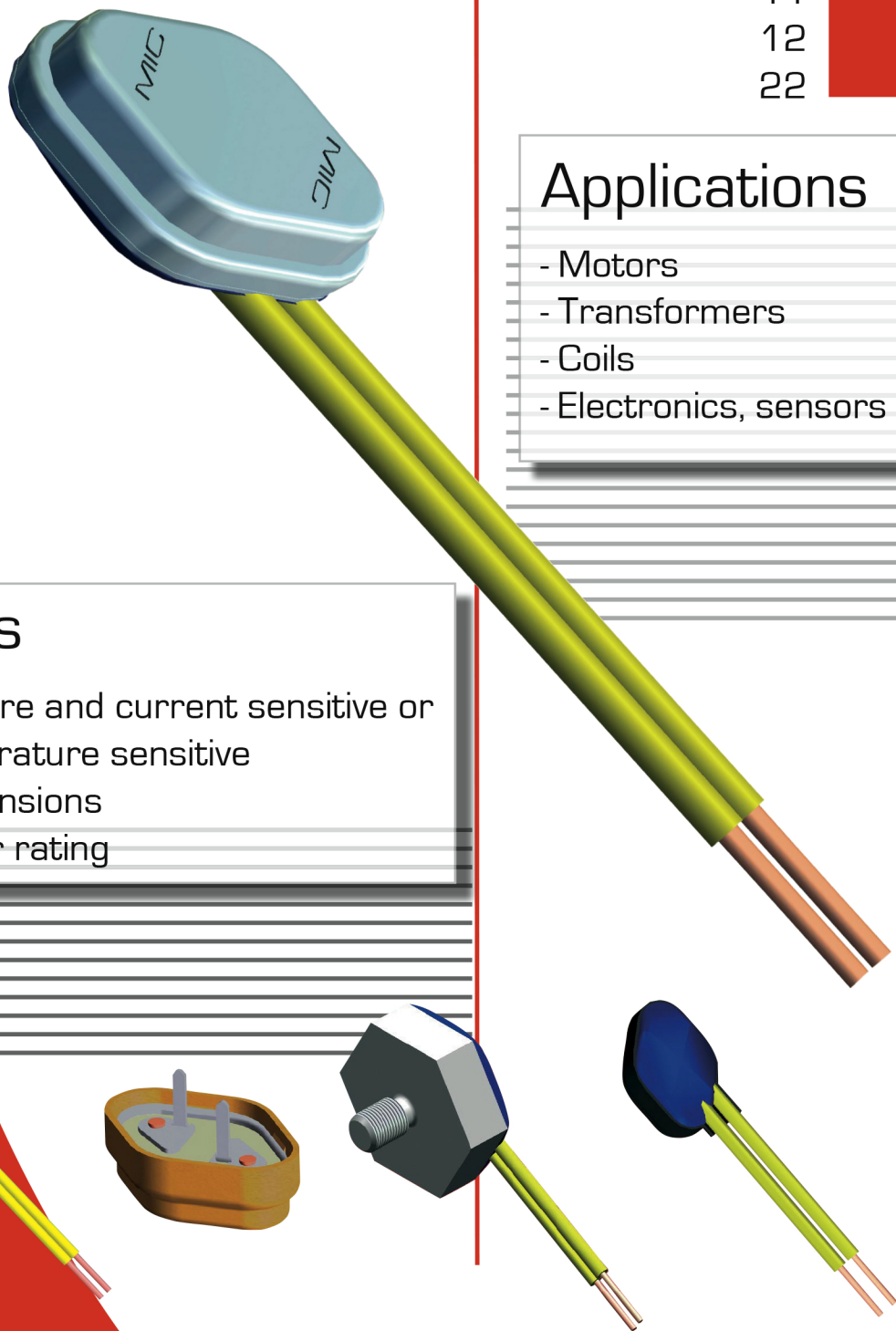
10
11
12
22

Applications

- Motors
- Transformers
- Coils
- Electronics, sensors

Benefits

- Temperature and current sensitive or only temperature sensitive
- Small dimensions
- High power rating



CANTHERM

■ Technical data

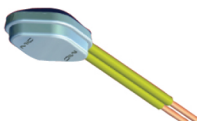
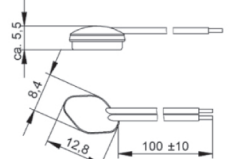
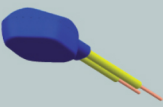
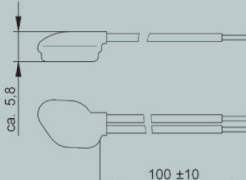
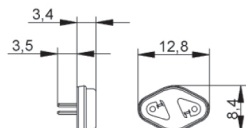
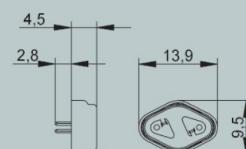
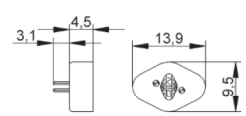
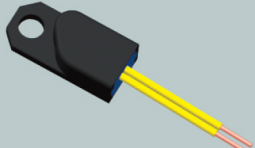
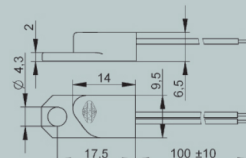
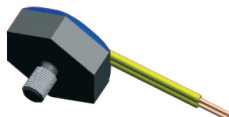
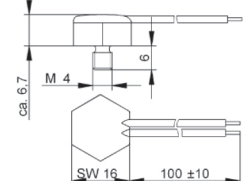
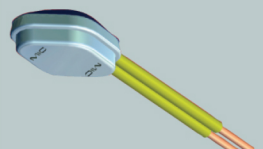
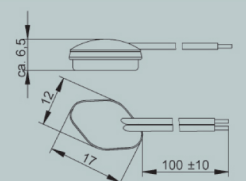
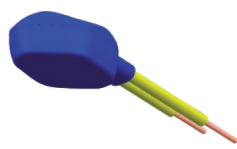
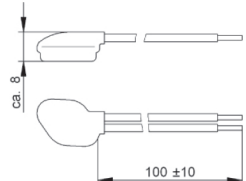
1) details on request 2) T₁₀ max. T_a 160 °C 3) approval to EN60730-2-2 up to 180°C
4) T₁₀ available with ± 3 K tolerances and smaller hysteresis 5) at the T_a (upper and lower) limits the hysteresis could deviate 6) different power rating

■ **Standard wire** (length 100 ± 10 mm, stripped 6 ± 1 mm)

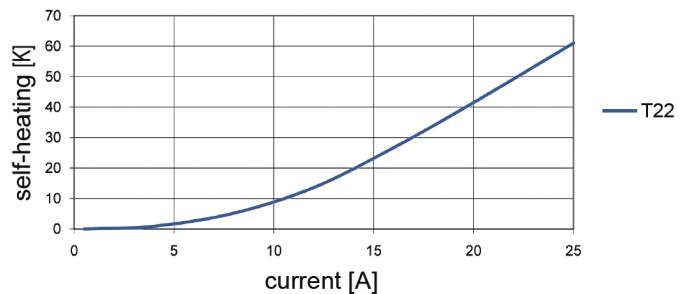
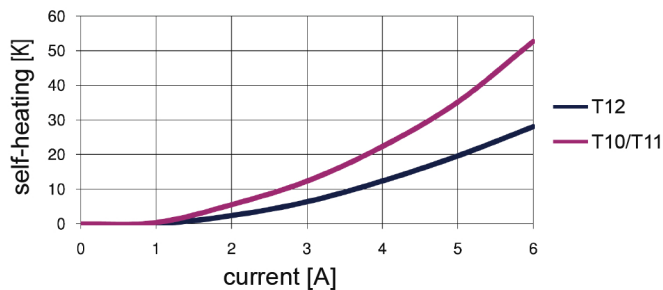
1) T22 only 2) for T12/T11 AWG20 and for T10 AWG24 is recommended 3) Solid Wire NOTE: Additional wires available upon request.

■ Standard insulation

[illegible]

control type	nc	no	Cantherm-code	illustration	drawing dimension (mm)	technical specification	approvals
T10 T11, T12	A A	B	Insulation 0	 type T11, T12 illustrated		no insulation potted	VDE, UL, cUL, CSA
T10 T11, T12	A A	B	Insulation U112 L			coated T _a max. 160 °C	VDE, UL, cUL
T11, T12	A		Wire Type A334 6			no insulation PCB connector grid dimension 5.08	VDE, UL, cUL
T11, T12	A		Insulation U314 4			cap of PPS PCB connector grid dimension 5.08	VDE, UL, cUL
T11, T12	A		Insulation U315 5			cap of PPS PCB connector grid dimension 5.08	VDE, UL, cUL
T10 T11, T12	A A	B	Insulation U293 2			housing of PPS potted	VDE, UL, cUL
T10 T11, T12	E E	G	Housing G502 E			potted aluminium housing anodized black M4x6 T _a max. 150 °C	VDE, UL, cUL
T22	A	B	Insulation 0			no insulation potted	VDE, UL, cUL, CSA
T22	A	B	Insulation U112 L			coated T _a max. 160 °C	VDE, UL, cUL

■ Heating by current



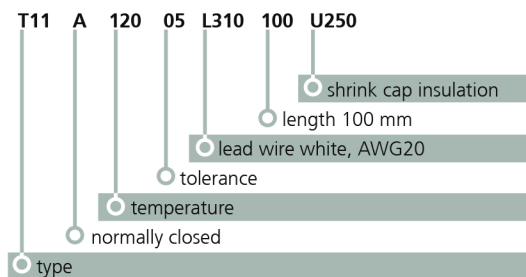
The characteristic curves are measured with a thermal control without any insulation in an oil bath.

Attention:

The heating depends on the thermal conduction of the control to the equipment or part which should be protected.

■ Ordering and marking example

Ordering example (Microtherm)



Deviations from standard controls on request.

Marking (Microtherm)

- T11A** type (T11 nc)
12005 response temperature (120°C), tolerance ($\pm 5K$)
049D date of manufacture (April 2009), country (D=Germany)

Cantherm Ordering Example [T11A12005AEDCB0E]

T11	A	120	05	AE	D	C	B	0	E
type	normally closed	temp-erature	tolerance +/-5°C	lead wire UL3398 20 AWG	lead length D=4"	yellow	insulation U102	housing - none	strip length .25"

Marking (Cantherm)

T11A type (T11 nc)

12005 response temperature (120°C), tolerance ($\pm 5K$)

112C date of manufacture (Nov. 2012), country (C = Canada)



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