

TH10 Thermal Cut-Out

KEY BENEFITS

Flexible mounting: 3 terminal configurations available

Robust design:

The bimetal disc is protected by the metal support

Full automated live: Provides stable setting values

Low price: The particular design provides high competitivity



Sensata Technologies has developed the TH10 temperature cut-out to respond to the need of increasing power of heating and personal care appliances. As a result of this, Sensata Technologies has further established its leading position in the worldwide thermal protection market.

Design and operating principles

The TH10 consists of two nickelplated supports, held together with ceramic pins. One support holds the high performance Klixon® bimetal disc, which, in combination with the sophisticated contact system, provides superior cycling performance. For self-hold versions see TH11/21. A wide temperature range, standard 5K tolerance, different bimetal resistivity, plus optional terminal configurations make the TH10 suitable for a very wide range of applications.

The operating principle of the TH10 is simple and effective. A current flows through the resistive Klixon® bimetal disc. When a fault condition occurs, the increased ambient temperature causes the bimetal disc to snap open the contacts. As the device cools down to a safe temperature again, the contacts will automatically reset.

Applications

Sensata

Technologies

The TH10 operates as a sensitive power cut-out for:

- · Hair dryers
- · Fan heaters
- · Convector heaters
- Transformers
- · Hand dryers

and various other applications. With the TH10 Sensata Technologies provides you with cost-effective protection while offering superior quality and reliability.



Certifications: Agency: ENEC Filenumber: 2014531.14 Rating: 13(2)A 250 Vac @ 30.000 cycles, 30(5)A 250 Vac @ 3.000 cycles Standard: EN60730-2-9, EN60730-2-2, EN60730-1

Agency: UL Filenumber: E54813











	Coding System						
	TH 10	C	A		101		
Terminal Configuration			Disc and contact support material		Standard opening temperature		
Code	Terminals	Code	Material		resistivity resi bimetal bime		High
A	Terminals on same end	A	Nickel plated steel				resistivity bimetal disc (B1)
в					60°C	031	035
	Terminals on opposite end				65°C	041	045
	opposito cita				70°C	051	055
С	Terminals on				75°C	061	065
	opposite end				80°C	071	075
	(with holes)				85°C	081	085
					90°C	091	095
					95°C	101	105
					100°C	111	115
					105°C	121	125
					110°C	131	135
					115°C	141	145
					120°C	151	155
					125°C	161	165
					130°C	171	175
					135°C	181	185
					140°C	191	195
					145°C	201	205
					150°C	211	215



Specifications	
Standard operating temperature range	from 45°C - 170°C
Max. Ambient temperature	200°C
Tolerance on open temperature	± 5K

Declarations		Destanting to ENGOZOD 0.0	
		Declarations to EN60730-2-2	
Purpose of the control	Thermal Cut-Out	Purpose of the control	Thermal Motorprotector
Construction	Incorporated, non-electronic		
Degree of protection	IP00		
Terminals for ext. conductors	For internal conductors only		
Method of (dis) connection			
of terminals	Riveting, soldering, spotwelding, springloaded contacting		
Details for terminals for			
internal conductors	Insulation of conductors used by OEM's must be able to withstand		
	the operating temperatures in normal usage		
Temperature limits of the			
switchhead	200°C		
PTI of insulation materials	PTI 250	PTI of insulation materials	PTI 250
Method of mounting	By various means in conjunction with (holes in) terminals, such that	Method of mounting	By various means in conjunction with (holes in) terminals, such
	adequate creepage and clearance distances are maintained between		that adequate creepage and clearance distances are maintained
	live parts and accessible metal parts		between live parts and accessible metal parts
Operating time	For continuous operation		
Type of action	Type 2B	Type of action	Type 3C
Reset characteristic	Automatic	Reset characteristic	Automatic
Extent of sensing element	Whole control		
Control pollution degree	Degree 2	Control pollution degree	Degree 2

255

170°C



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