PROTHERM Wärmeschutz GmbH

TEMPERATURE FUSE TYPE 87N – ceramic for high temperature



TECHNICAL DATA

version	Temperature fuse type 87N
contact type	NC = normally close as SOD (single operation device)
insulation	ceramic-case
nominal switching temperature	60°C until 270°C
max. ambient temperature (corresponding NGT-test)	24 h at 230°C
standard-tolerance range	± 3 K bis ± 5 K depending on NST
rated voltage U _N 50/60 Hz (VDE/IEC)	250 VAC
rated current with UN ohmic $\cos \varphi = 1,0$	16 A
approvals	VDE, UL, CSA
standard connection	terminal 6,3 x 0,8mm
high voltage insulation	1,8 kV
degree of protection	IP00
contact resistance (MIL-Standard R5757)	<30mΩ
vibration proof (at 1060Hz)	98 m/s² ≈ 10G

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Temperature fuse (1/2" size)

Benefits & Advantages

The outstanding quality level of our Temperature Controls satisfies highest demands for safety and reliability. They are provided with a patented, fully developed and reliable switching device system.

Best geometric design	1/2" standard-size
Save, reliable & durable	100% tests while production process
Temperature sensitive	reproducible Switching-Temperature induced by mechanical unstressed and electrically unloaded bimetallic disk
Fast reaction	excellent thermal coupling induced by an ideal placed bimetallic disk
Flexible	many terminals and mountings are available

Functions & Types

Bimetal switch

After reaching its factory-adjusted Nominal Switching Temperature (NST) the bimetal disc suddenly turns over from its stable initial position into a stable end position and thereby activates the switching device.

Normally closed (NC)

Contacts open and switch off the supply \Rightarrow direct disconnection

Normally open (NO)

Contacts close and activate the supply (switching on of signal units)

fuse function

The temperature fuse is remaining with disconnected contacts in the initial position. If it's comply with special requirements, the bimetal disc could close the contact again below -35°C.

Technical Data

The listed specifications and information are based on tests and test series. They are of a standard nature and therefore deviations may occur in connection with specific applications. The suitability for a specific application must be individually tested by the user. Please contact us for advice and support.

Configuration with our article number

sample 1 is for a 87N NC-type, open at 80°C ±3K with terminal 6,3 x 0,8 mm and flexible mounting bracket

sample 2 is for a 87N NC-type, open at 200°C ±5K with 90° angled terminal and fixed mounting bracket angled 90° to the connector

1. count	24. count	5. count	68. count	9. count	1011. count	12. count	specials
A=NC-type	reaction temperature		type	сар	terminal	mounting	
A	080	-	87N	1	03	4	
Α	200	-	87N	W	04	Н	-090

The manufacturing and production of our Thermostats is DIN ISO 9001 certified. By maintaining the current RoHS-conformity the products correspond also to the WEEE 2012/19/EU.

Our friendly team would give you detailed information for all the products. Of course, we want to help you, to find the best solution for your application. Please call us for further information.

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