

### Applications

- Fluorescent Lighting ballast and others
- Heating appliances
- small electric motors
- Thermal overload protection of small equipments

### Function

The Protector of Thermal (R42007) =EC02 normally operates not current sensitive.  
 Temperature detection is realized by a bimetal snap disk  
 Using high- impedance bimetal material, the response time of the protector can be reduced ( moderate current sensitivity).  
 The (R42007) EC02 thermal protector is available with normally closed (NC) as well as normally opened (NO) contacts

Diagramm of (NC) contact

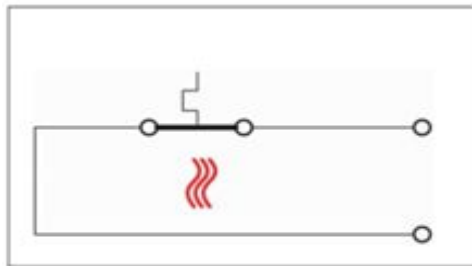
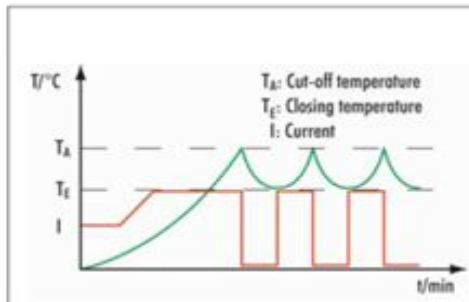
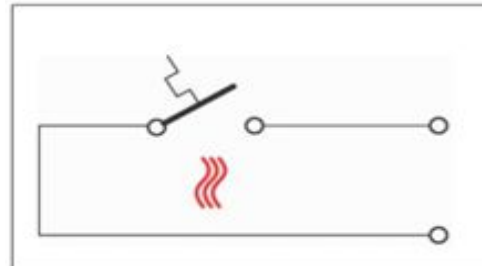
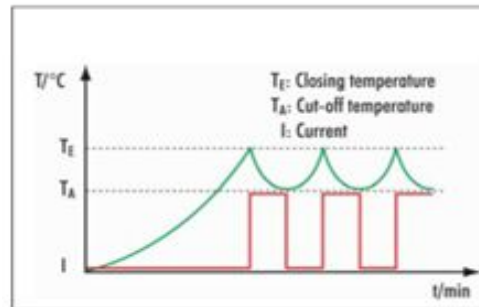


Diagramm of (NO) contact



Switching Capacity:	250V / 50Hz / 2A
Minimum Current:	50mA
Max. Switching Capacity:	250VAC, 2A
10000 cycles:	115VAC, 3A
	24VDC, 3A
	12VDC, 4A
Action Type :	3C
Switching Temperature:	30°C ~ 155°C (± 5K )
Switching Differential:	10 - 50 K (± 15K
	depending on Switching Temperature
Max. Ambient Temperature:	160°C
Approvals:	UL/CSA2111; VDE60730-2-2; CQC;
	TÜV 60730-2-9-2-3

### Thermal Protector

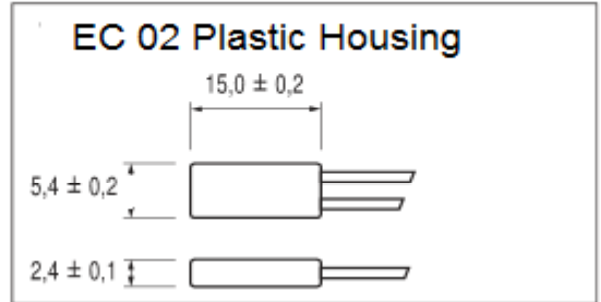
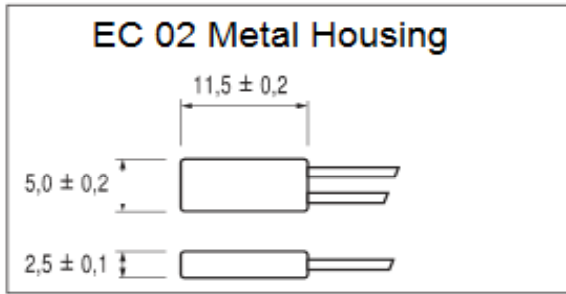
Part No.: **R42007**

Customer:

DRW:	Jason	CHKD	Jules	MATL:	Wu	DATE	05.04.2023
APPD:	Join			FINISH	Shieh	Sheet	1 from 3



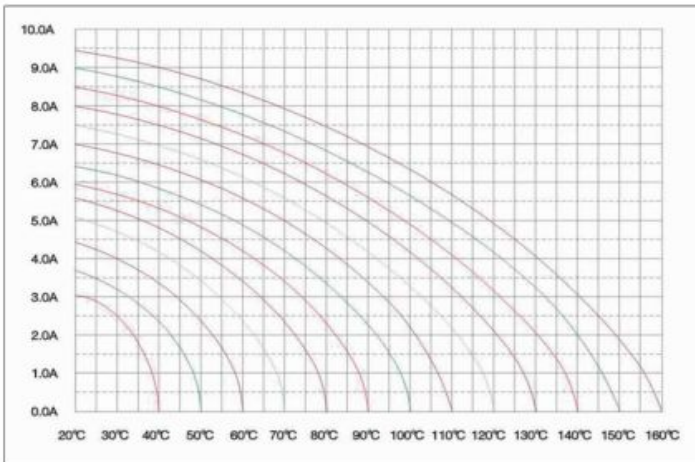
EC02 Housing Type / Plastic / Metall



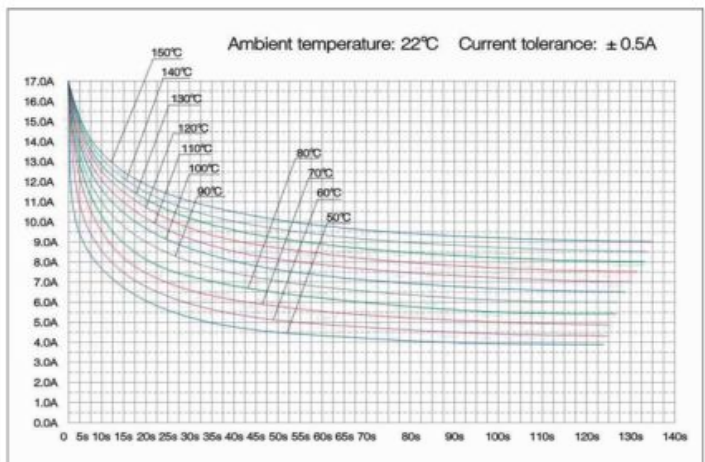
Technical Informations

The thermal protector EC02 is enclosed by a mould proof housing which is available as metal or plastic housing type. Electrical insulation of metal housing is possible by means of insulation tubes. Its rectangular homogeneous design provides efficient and fast temperature transfer. Standard leads length is 70mm / Wire Type (22/24AWG) other leads, wires, terminals, stripped, etc. are available on request.

Tripping Temperature vs. Current

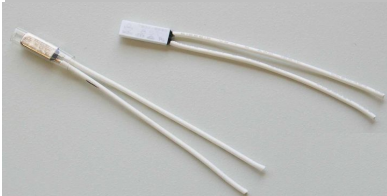


Current vs. Tripping Time Rate



<b>Thermal Protector</b>	
Part No.:	<b>R42007</b>
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### Ordering Information

Serie	Contact configuration	Protection Type	Case Type	Bimetal	Operating Temperature	ROHS	Packing
<b>R42007</b>	<b>B</b>	<b>B</b>	<b>8</b>	<b>D</b>	<b>090</b>	<b>R</b>	<b>BU</b>
R42007 / EC02	<b>B</b> = normally closed <b>K</b> = normally open	<b>A</b> =Temperature Protection <b>B</b> =Current / Temperature Protection	<b>1</b> = Metal Case <b>8</b> = Plastic Case	<b>D</b> = low resistance Value	<b>XXX</b> = Temperature Selection	<b>R</b> = ROHS Conform <b>N</b> = NON ROHS Conform	<b>BU</b> = Bulk-Ware <b>IV</b> = Individual Packing

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