



# 3MPI SERIES

SINGLE PHASE  
THERMAL OVERLOAD PROTECTOR (TOP)  
SWITCHES

## PRODUCT OVERVIEW

"Krishna" 3MPI Series Single Phase Thermal Overload Protector (TOP) switches are developed for 120 and 250 VAC applications. It operates in wide temperature and current ranges. Integrated heater in combination of thermostat bimetal disc provide accurate trip times under lock rotor condition for maximum protection. It has consistent performance and good reliability. Its features are designed to support anticipated technical protection requirement of next generation AC motors.

## KEY FEATURES

- ◇ Inbuilt heater to provide better current sensitivity.
- ◇ Available with variety of terminal configuration for easy mounting & handling.
- ◇ Miniature in Size.  
Customised coding and colour of coding tape can be provided.
- ◇ Positive Snap action disc for contact break & make.
- ◇ Auto reset type.  
Wide range of current temperature settings for maximum design flexibility.
- ◇ Temperature settings as per customer's specifications.
- ◇ Opening (cut off) temperature is constant within  $\pm 5^{\circ}\text{C}$ .
- ◇ Wide selection of lead wire and insulating sleeves.
- ◇ Cadmium free contacts

## USAGES

"Krishna" 3MPI (TOP) switches are used to provide safety to a wide range of Domestic and Industrial equipments. A few typical applications are:

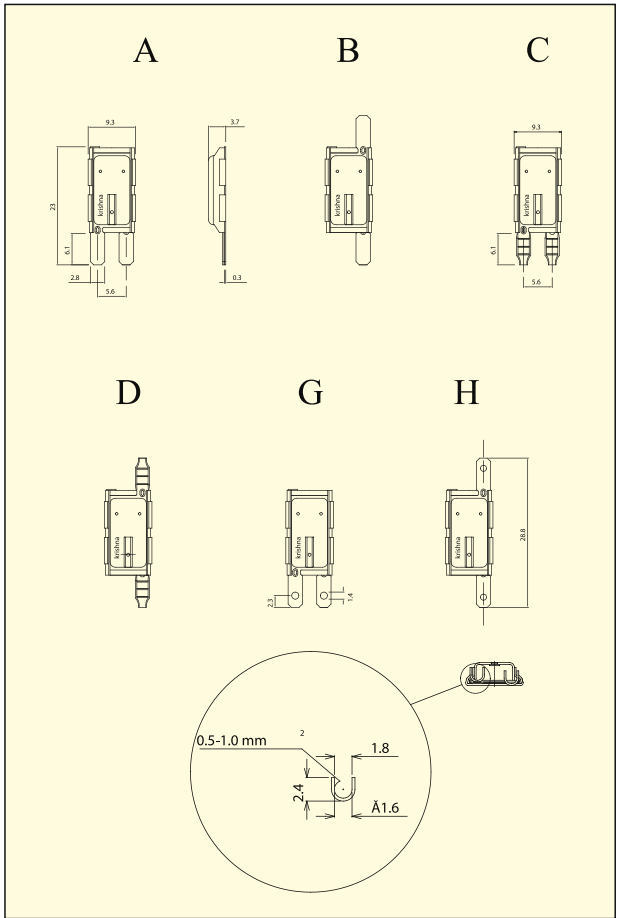
- |   |                        |
|---|------------------------|
| ◇ Dryers  | ◇ Dish Washers         |
| ◇ Washing Machine                                 | ◇ Vacuum Cleaner       |
| ◇ Single Phase Electric Motor                     | ◇ Water Pumps          |
| ◇ Others as per customers design and applications | ◇ Toroidal transformer |

## QUALITY

"Krishna" 3MPI (TOP) switches are automatically assembled, calibrated and rigorously tested in modern, custom designed computerized test equipments with the applications of Statistical Quality Control (SQC) system.

THE ETERNAL GUARDIAN FOR MOTOR PROTECTION

## Dimensions (mm) Terminal configurations

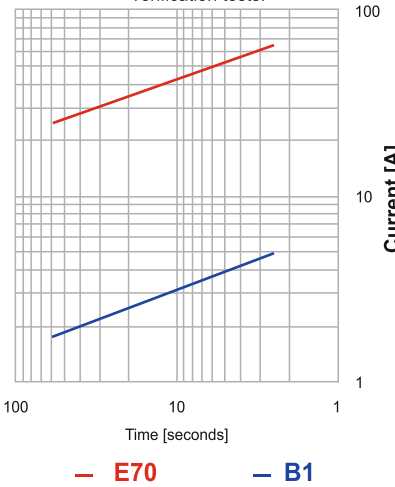


## SPECIFICATIONS

Standard Opening Temperature Range	80 °C to 170 °C
Tolerance on Open Temperature	$\pm 5^{\circ}\text{C}$
Peak Temperature (5 min.)	200 °C
Time Check T-ambient 25 °C	4 to 10 seconds
Max. ambient temperature	T-open +20 °C
Contact rating	27.5A @ cos 1/250 VAC/500 cycles 18A @ cos 0.6/250 VAC/1000 cycles 18A @ cos 0.6/120 VAC/15000 cycles

## Average First Cycle Tripping Time vs. Current (ambient is 25 °C)

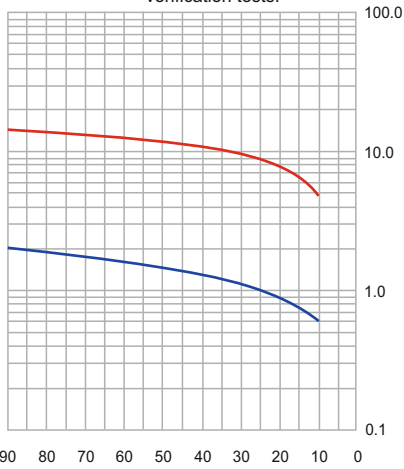
Approx. to be used for selecting samples for verification tests.



— E70 — B1

## Ultimate Trip Current vs. Ambient Temperature (non-circulating air)

Approx. to be used for selecting samples for verification tests.



Delta Temperature [°C]  
(=Open Temperature - Ambient Temperature)  
— E70 — B1

Agency	File Number	Standard Number	
UL	E247727	2111	
CB	SE-74901	IEC60730-2-9:2015 IEC60730-1:2013	IEC60730-2-2:2001+AMD1:2005

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