



SAVEAIR
Technologies Pvt Ltd



Product Catalogue

Contact For Any Enquiry

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Temperature Control Relay

- Wide ambient Temperature monitoring & controlling range with inbuilt temperature sensor.
- Protection Relay against variations of the ambient temperature set point (StH & StL)
- 3 digit LCD display for Real time Temperature Indication.
- User adjustable offset (-10°C to +10°C)
- LED indication for Relay Trip.



Ordering Information

Cat. No.	Description
41A111AR	110 - 240 VAC, Temperature Control Relay (TCR - 111) Double SP
41A111BR	110 - 240 VAC, Temperature Control Relay (TCR - 112) Single SP

Temperature Control Relay



Cat. No.		41A111AR	41A111BR
Parameters			
Series nos.		TCR - 111	TCR - 112
Number of set points		Double SP	Single SP
Supply Voltage (±)		110 - 240 VAC, -20% to +10%	
Frequency		47Hz - 63Hz	
Power Consumption (Max.)		3 VA	
Device Characteristics			
Sensor		Inbuilt Temperature Sensor	
Temperature Unit		°C	
Display Resolution		0.1°C	
Accuracy		± 3°C Max	
Output Control Mode		Relay ON/OFF	
Hysteresis		2°C (Fixed)	
Temperature measurement and Controlling Range		-10°C to 55°C	-5°C to 55°C
Set Point Range	Low Level (StL)	-10°C to (StH-4°C)	Internally Fixed to 5°C
	High Level (StH)	(StL + 4°C) to +55°C	
Offset		-10°C to 10°C	
Minimum difference between StH & StL (for double SP only)		4°C	
LED Indication		ON - Relay ON condition (Red Color)	
Display Type		Positive Image, Reflective, TN	
Contact Ratings		NO - 5A & NC - 3A @ 250 VAC / 30 VDC Resistive	
Operating Temperature		- 10° C to +55° C	
Storage Temperature		- 20° C to +65° C	
Dimension (W x H x D) (in mm)		18 X 85 X 82	
Weight (unpacked)		70 g	
Mounting		DIN rail	
Certification		 	
Degree of Protection		IP 20 for Terminals, IP 40 for Enclosure	

EMI / EMC

Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surge	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

Environmental

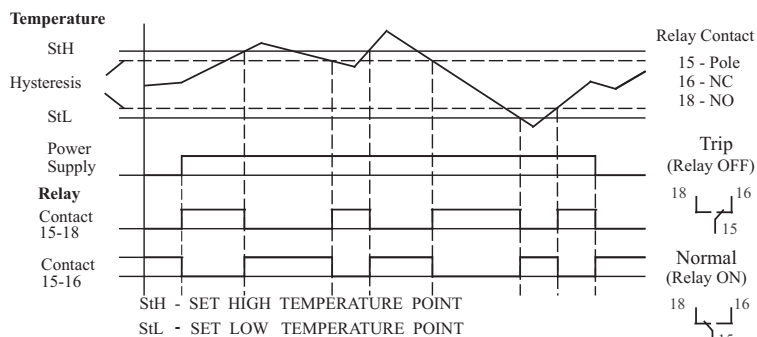
Cold Heat	IEC 60068-2-1
Dry Heat	IEC 60068-2-2
Vibration	IEC 60068-2-6
Repetitive Shock	IEC 60068-2-27
Non-Repetitive Shock	IEC 60068-2-27

Temperature Control Relay

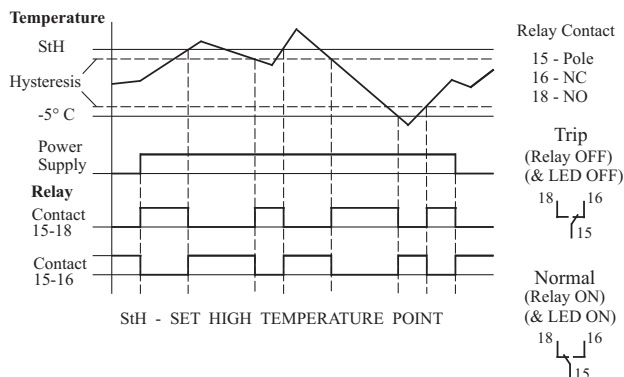


FUNCTION DIAGRAM

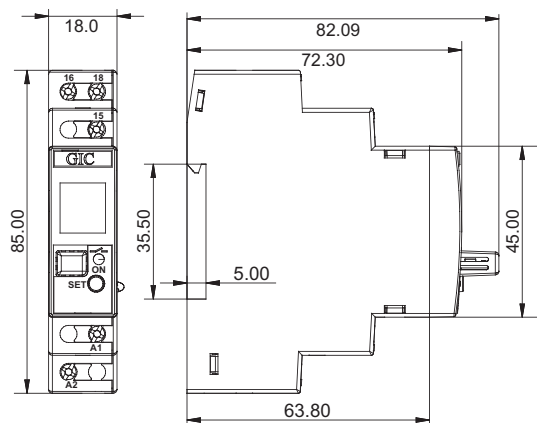
Double SP - 41A111AR:



Single SP - 41A111BR:

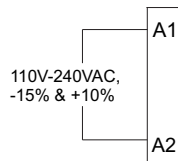


MOUNTING DIMENSIONS (mm)

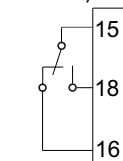


CONNECTION DIAGRAM

SUPPLY CONNECTION

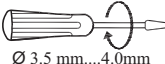


SPDT Relay CONNECTION



NO-5A & NC-3A@
250VAC/30VDC RESISTIVE

TERMINAL TORQUE & CAPACITY

 Ø 3.5 mm...4.0mm	0.60 N.m (6 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	1 x 20 to 10