Temperature Control Relay



Cat. No.		41A111AR	41A111BR	
Parameters	S			
Series nos.		TCR - 111	TCR - 112	
Number of set points		Double SP	Single SP	
Supply Voltage (中)		110 - 240 VAC, -20% to +10%		
Frequency		50/60 Hz		
Power Consumption (Max.)		3 VA		
Device Cha	aracteristics			
Sensor		Inbuilt Temperature Sensor		
Temperature Unit		O°		
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	Low Level (StL)	-10°C to (StH-4°C)	Internally Fixed to -5°C	
Range	High Level (StH)	(StL + 4°C) to +55°C	0°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 Storage Temperature		- 10° C to +55° C - 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

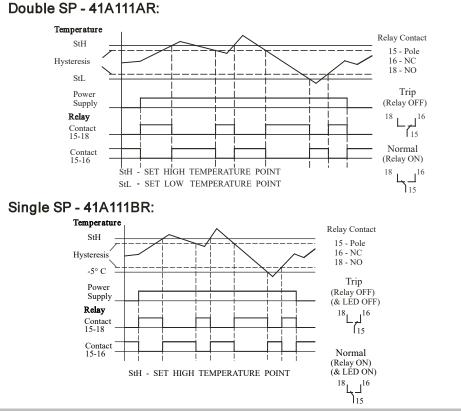
Environmental

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

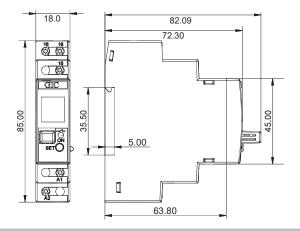
Temperature Control Relay



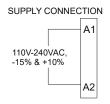
FUNCTION DIAGRAM

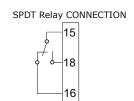


MOUNTING DIMENSIONS (mm)



CONNECTION DIAGRAM





TERMINAL TORQUE & CAPACITY

Ø 3.5 mm4.0mm	0.60 N.m (5.3 Lb.in)
	1 x 4.0 mm ² Solid/Stranded Wire
AWG	1 x 20 to 10

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