Equipment Room Temperature Control Relay

- Provides protection against variations of the ambient temperature (min/max) in equipment or lift rooms
- Suitable for use in Traction and Hydraulic Lift Types
- Supports an External sensor module
- LED Indication for Relay Trip & Power ON



Ordering Information

Cat. No.	Description
45A131AR	5°C to 40°C (Traction lift type), 230V AC, 1NO, External NTC two wire sensor. Base/DIN
45A231AR	5°C to 40°C (Traction lift type), 110V AC, 1NO, External NTC two wire sensor. Base/DIN
45A231ARN	5°C to 40°C (Traction lift type), 110V AC, 1NO, Without Sensor, Base/DIN
45D331AR	5°C to 40°C (Traction Lift Type), 24V DC, 1NO, External NTC two wire sensor. Base/DIN
45A131BR	15°C to 35°C (Hydraulic Lift Type), 230V AC, 1NO, External NTC two wire sensor. Base/DIN
45A231BR	15°C to 35°C (Hydraulic Lift Type), 110V AC, 1NO, External NTC two wire sensor. Base/DIN
45D331BR	15°C to 35°C (Hydraulic Lift Type), 24V DC, 1NO, External NTC two wire sensor. Base/DIN
45SP01	Accessory, NTC 2 wire sensor assembly with 2 sensors

Equipment Room Temperature Control Relay



Cat. No.	45A131AR		45A231AR	45D331AR
Parameters				
Supply Voltage (中)	230 VAC		110 VAC	24 VDC
Supply Variation	± 15%			
Frequency	47Hz - 63Hz			NA
Power Consumption (Max.)	10 VA		5 VA	1.2 W
Device Characteristics				
Accuracy	± 1°C			
Output Control Mode	Relay ON/OFF			
Relay ON Delay	10 sec (Fixed), ± 1sec			
Relay OFF Delay	10 sec (Fixed), ± 1sec			
Hysteresis	1°C			
Trip Level				
High Trip Level	+ 40°C			
Low Trip Level	+ 5°C			
LED Indication	ON - Power ON condition (Green Color) ON - Relay ON condition (Red Color)			
LED indications for errors obse	erved			
Error Condition	Red LED	Green LED		
Sensor Break / Sensor Open	Blink @500ms	OFF		
Model Selection	OFF Blink @500ms			
Flash Read Error	Blink @500ms	Blink @500ms		
Contact Ratings	Terminal 15 – Pole, Terminal 16 – NC, Terminal 18 – NO, 8 Amp at 250VAC, 1Amp at 30VDC 3 KV Isolation between coil and contact			
Max Power Output Rating of Relay	1840 VA for AC / 30W for DC approx			
Operating Temperature Storage Temperature	- 15° C to +60° C - 20° C to +70° C			
Humidity (Non Condensing)	95% (Rh)			
Enclosure	Flame Retardant UL94-V0			
Dimension (W x H x D) (in mm)	22.5 X 75 X 100.5			
Weight (unpacked)	100 g			
Mounting	Base / DIN rail			
Certification	CE Compliant			
Degree of Protection	IP 20 for Terminals	s. IP 40 for Enclos	ure	

EMI / EMC

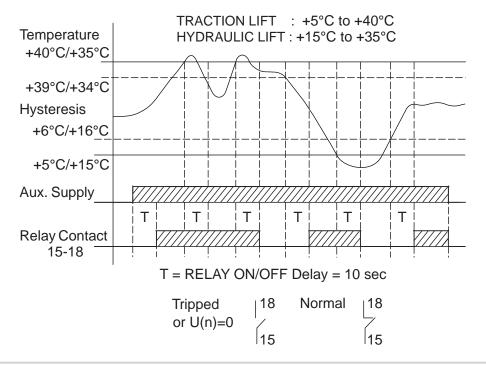
Harmonic Current Emissions	IEC 61000-3-2
ESD	IEC 61000-4-2
Radiated Susceptibility	IEC 61000-4-3
Electrical Fast Transients	IEC 61000-4-4
Surge	IEC 61000-4-5
Conducted Susceptibility	IEC 61000-4-6
Voltage Dips & Interruptions (AC)	IEC 61000-4-11
Conducted Emission	CISPR 14-1
Radiated Emission	CISPR 14-1

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

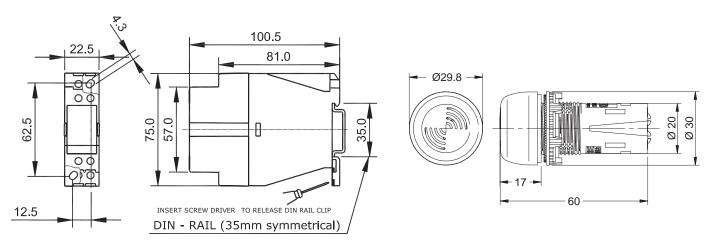
Equipment Room Temperature Control Relay



FUNCTION DIAGRAM

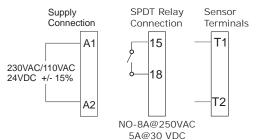


MOUNTING DIMENSIONS (mm)



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CONNECTION DIAGRAM



TERMINAL TORQUE & CAPACITY

For 8 and 12 terminal 225

Ø3.54.0mm	0.6 Nm(7 lb.in)	
	1 x 14mm ²	solid wire/single wire ferrule
	2 x 0.5 2.5 mm ²	insulated twin type ferrule
AWG	1 x 17 to 11	