



SAVEAIR
Technologies Pvt Ltd



Product Catalogue

Contact For Any Enquiry

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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 (Φ)	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	2°C		
Trip Level			
High Trip Level	+ 40°C		
Low Trip Level	+ 5°C		
LED Indication			
Power ON	Green LED ON		
Relay ON	Red LED ON		
Relay OFF	Red LED OFF		
Sensor Open / Short	Red LED Blinking		
Contact Ratings	Terminal 15 – Pole, 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	- 15° C to +60° C		
Storage Temperature	- 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	 		
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

Figure 1 consists of two vertically aligned graphs sharing a common time axis. The top graph plots Temperature in degrees Celsius, with a scale from +5°C to +40°C. A horizontal dashed line at +38°C is labeled 'TRACTION LIFT :: +5°C to +40°C'. The temperature curve starts at +7°C, rises to a peak of +40°C, drops to a minimum of +38°C, rises to another peak of +40°C, and then gradually declines to +5°C. The bottom graph shows the states of 'Aux. Supply' and 'Relay Contact 15-18'. The 'Aux. Supply' is represented by a solid horizontal bar. The 'Relay Contact 15-18' is represented by hatched bars that are active during the temperature peaks. A legend at the bottom indicates 'T = RELAY ON/OFF Delay = 10 sec'.

Normal 

Figure 1: Temperature profile and relay control sequence for the HYDRAULIC LIFT. The graph shows temperature (°C) on the y-axis (15, 17, 33, 35) and time on the x-axis. The temperature profile shows a series of peaks and troughs, with the highest peaks reaching 35°C. The relay control sequence shows the Aux. Supply (hatched bar) and Relay Contact 15-18 (hatched bars) over time. The relay contact is closed during the temperature peaks. The legend indicates T = RELAY ON/OFF Delay = 10 sec.

Normal $\begin{array}{c} 18 \\ | \\ 15 \end{array}$

22.5

62.5

12.5

75.0

57.0

100.5

81.0

35.0

Ø29.8

Ø20

Ø30

17

60

INSERT SCREW DRIVER TO RELEASE DIN RAIL CLIP

DIN - RAIL (35mm symmetrical)

Supply Connection

230VAC/110VAC
24VDC +/- 15%

A1
A2

SPDT Relay Connection

15
18

Sensor Terminals

T1
T2

NO-8A@250VAC
5A@30 VDC

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