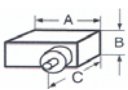
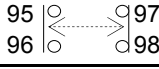


Thermal Overload Relays

Model : Standard Type (1E) Thermal Overload Relays

Model		Standard Type (1E) Thermal Overload Relays (Overload and Lock Protections)																			
Frame		12B		20B		25B		50B		80B		150B		250B		400B		600B			
Type		TR12B -1E		TR20B -1E		TR25B -1E		TR50B -1E		TR80B -1E		TR150B -1E		*TR250B -1E		*TR400B -1E		*TR600B -1E			
Heater Specifications	Type of Heater (Center RC Value) (A)	0.2	0.3	0.2	0.3	20	9	20	80	(140)	(140)	(140)									
		0.5	0.8	0.5	0.8	22	11	28	105	(240)	(240)	(240)									
		1.2	1.4	1.2	1.4		15	40	130	(380)	(380)	(380)									
		2.4	3.8	2.4	3.8		20	55												(500)	
		5.0	6.8	5.0	6.8		28	67													
		9	11	9	11		40														
					15		55														
*Numbers of heat elements		2		2		2		2		2		2		2		2		2			
Heat element consumption VA(VA/ 1 phase)		1.9		1.9		1.9		4.1		7.6		7.6		1.9		1.9		1.9			
External Dimensions (mm)		A	45		63		63		85		102.5		102.5		148		164		230		
		B	71		45		54		45		55		87		120		135		179		
		C (Height to Reset Button)	78.5		72.5		72.5		73.5		73.5		73.5		167		167		170		
Net weight (kg)		0.1		0.15		0.17		0.25		0.36		0.37		2.0		2.0		5.0			
Terminal Screw Diam	Main Circuit	M3.5		M4		M4 (Line) M5 (Load)		M5		M6		M6 (Line) M8 (Load)		M10		M12		M12			
	Operating Circuit	M3.5		M3.5		M3.5		M3.5		M3.5		M3.5		M3.5		M3.5		M3.5			
Contract Specifications	Type of Contact		1N01NC																		
	Arrangement		 95-96 (NC contact) 97-98 (NO contact)																		
	Rated Insulation Voltage (V)		600																		
	Rated Thermal Current (A)		NC contact : 3 , NO contact : 2																		
	Rated Operational Current (A) (Values in parenthesis : for Automatic reset)	AC (AC15)	110V	NC contact : 3 (1) , NO contact : 2 (0.5)																	
			220V	NC contact : 2 (1) , NO contact : 1 (0.5)																	
			440V	NC contact : 1 (0.3) , NO contact : 0.5 (0.2)																	
			550V	NC contact : 1 (0.3) , NO contact : 0.5 (0.2)																	
		DC L/R ≤ 40ms	24V	NC contact : 1 (0.4) , NO contact : 0.5 (0.2)																	
			48V	NC contact : 0.5 (0.2) , NO contact : 0.2 (0.1)																	
110V		NC contact : 0.2 (0.1) , NO contact : 0.1 (0.05)																			
220V		NC contact : 0.1 (0.05) , NO contact : 0.1 (0.05)																			
Minimum Rating		NC contact : 24V 200mA , NO contact : 24V 10mA																			
Reset Method		** both as Manual and Automatic reset																			
Separate Mounting		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Refer Remarks 4	
Protection Cover of Adjusting Knob		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Option	Reset Release	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Lamp Unit	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	Safety Cover	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	<input type="radio"/>	-	
	Separate (DIN rail) Mounting Unit	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Applicable Electromagnetic Contactor		H8C	H20		H25		H35		H65C		H100C		H200C		H300C		H600C				
		H10C					H50		H80C		H125C		H250C		H400C						
		H11									H150C										
		H12																			
		H10B-R																			
Conforming Standard		JIS,JEM,IEC,BS,VDE(3 Heat Element Only)																			

