

## Contactor Relays

### Specification List

Model name			SR-T5	SRD-T5	SR-T9	SRD-T9
Number of poles			5		9	
Contact arrangement			5a		9a	
			4a1b		7a2b	
			3a2b		5a4b	
Rated insulation voltage [V]			690			
Applicable standard			IEC60947-5-1,EN60947-5-1,JIS C8201-5-1,GB14048.5			
Rated impulse withstand voltage [kV]			6			
Rated frequency [Hz]			50/60			
Pollution degree			3			
Conventional free air thermal current Ith [A]			10			
Contact rating (Note 1)	AC rated operational current [A]	Category AC-15 (Coil load)	120VAC	6		
			240VAC	3		
			440VAC	1.5		
			550VAC	1.2		
	DC rated operational current [A]	Category DC-13 (large coil load)	120VAC	10		
			240VAC	8		
			440VAC	5		
			550VAC	5		
DC rated operational current [A]	Category DC-12 (resistive loads)	24VDC	3			
		48VDC	1.5			
		110VDC	0.6(2)			
		220VDC	0.3(0.8)			
DC rated operational current [A]	Category DC-12 (resistive loads)	24VDC	10			
		48VDC	8			
		110VDC	5(8)			
		220VDC	1(3)			
Minimum applicable load level			20V 3mA			
Performance	Mechanical durability [ten thousand times]		1,000			
	Electrical durability [ten thousand times]		50			
	Switching frequency [time/hour]		1,800			
Characteristic	Coil consumption (Note 3)	Inrush [VA]	45	-	45	-
		Sealed [VA]	7	-	7	-
	Power consumption (Note 3) [W]		2.2 (Note 3)	3.3(2.2) (Note 4)	2.2 (Note 3)	3.3 (Note 4)
	Time constant [mg]		-	40(45) (Note 4)	-	40(45) (Note 4)
Optional unit (Note 2)	Surge absorber unit		○		○	
	Additional auxiliary contact block		○		×	
	IEC 35mm rail mounting		○		○	

Note 1: The value in brackets indicates the current when switching the load with two poles installed in series.

Note 2: In the optional unit field, ○ and X indicate mountable and non-mountable, respectively.

Note 3: Coil consumption are average values in case of applying 220V60Hz to AC200V coil.

Note 4: Coil consumption are average values in case of DC200V coil. The value in brackets indicates average values in case of DC12V and DC24V coil.

## Contactor Relays

### Contact arrangement/Contact placement

Model name	SR-T5 SRD-T5	SR-T9 SRD-T9
Contact arrangement	5a	9a
	4a1b	7a2b
	3a2b	5a4b
Contact placement	<p>5a</p>	<p>9a</p>
	<p>4a1b</p>	<p>7a2b</p>
	<p>3a2b</p>	<p>5a4b</p>

### Combination with additional auxiliary contact block

The SR-T series contactor type Contactor Relay is usable in combination with the following additional auxiliary contact blocks.

Auxiliary contact blocks		Front clip-on						Side clip-on	
		UT-AX4			UT-AX2			UT-AX11	UT-AX11
Model name	Contact arrangement	4a	3a1b	2a2b	2a	1a1b	2b	1a1b+1a1b	1a1b
SR-T5 SRD-T5	5a	9a	8a1b	7a2b	7a	6a1b	5a2b	7a2b	6a1b
	4a1b	8a1b	7a2b	6a3b	6a1b	5a2b	4a3b	6a3b	5a2b
	3a2b	7a2b	6a3b	5a4b	5a2b	4a3b	3a4b	5a4b	4a3b




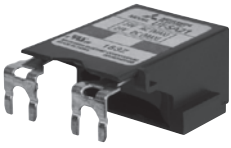
Note 1: The auxiliary contact blocks cannot be mounted on SR(D)-T9.




Note 2: The Contactor Relay is not usable with front clip-on and side clip-on blocks mounted at the same time.



Note 3: The contact arrangements in are standard combinations.

## Optional Units

### Model list (for MS-T series)

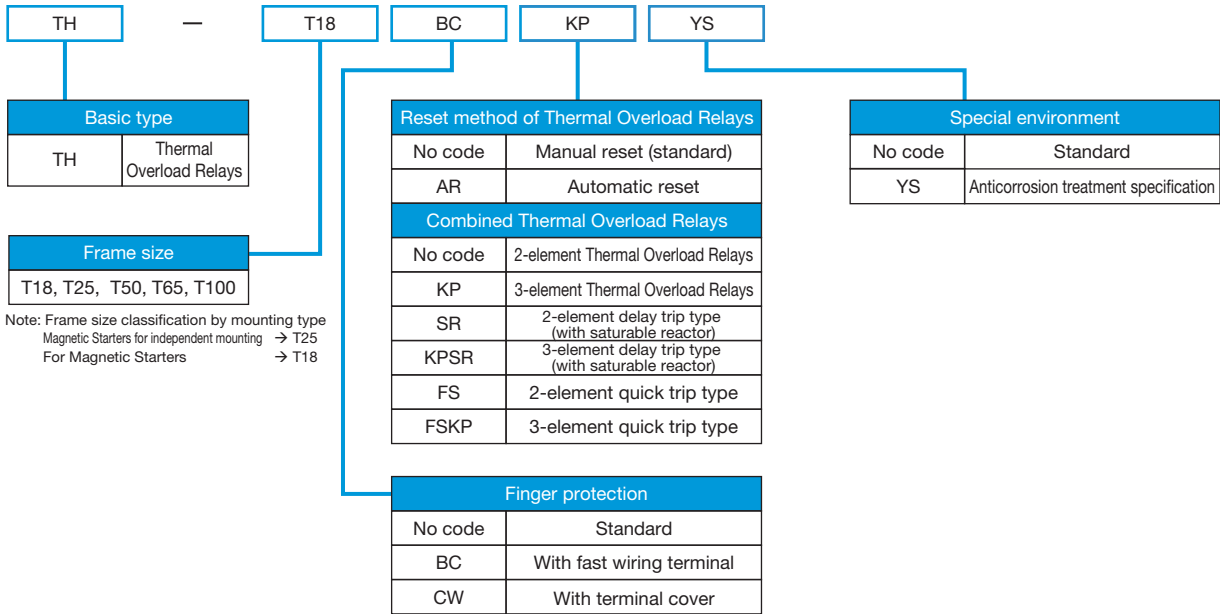
Model name		Auxiliary contact blocks			Operation coil surge absorber unit				
Type	UT-AX4	UT-AX2	UT-AX11	UT-SA21	UT-SA22	UT-SA13	UT-SA23	UT-SA25	
Mounting	Front clip-on			Side clip-on	Mounting on top				
Specification/ Function	Twin contact built-in 4-pole auxiliary contact (4a, 2a2b, 3a1b)	Twin contact built-in 2-pole auxiliary contact (2a, 1a1b, 2b)	Twin contact built-in 2-pole auxiliary contact (1a1b)	Operation coil surge absorber					
				With varistor 24VAC (Shared with DC) 48VAC (Shared with DC) 200VAC (Shared with DC) 400VAC	With varistor + indicating LED 200VAC (Shared with DC)	With CR DC200V	With CR AC200V	With varistor + CR 48VAC (Shared with DC) 200VAC (Shared with DC)	
Appearance (Typical example)									
	UT-AX4	UT-AX2	UT-AX11	UT-SA21					
Applied model	Magnetic Starters	S-T10~T50/SD-T12~T50							
	Magnetic Contactors	MSO-T10~T25/MSOD-T12~T21							
	Contact Relays	SR(D)-T5			SR(D)-T5/T9				
	thermal relay	-			-				

Model name		Mechanical interlocks		Single mounted unit	Main circuit conductor kit		
Type	UT-ML11	UT-ML20	UT-HZ18	UT-SD10	UT-SD20	UT-SD25	
Mounting	Side clip-on			-	-		
Specification/ Function	Combining it with two single Magnetic Contactors configures the reversing type. ML11 is the electrical interlock 2b contact built-in type.			When used in combination with the thermal relay, screw mounting and mounting on the IEC35mm rail are possible.	Conductor unit used for reversible connection *6 conductors/set (Note 2) (Note 3)		
Appearance (Typical example)							
	UT-ML11		UT-HZ18	UT-SD10			
Applied model	Magnetic Starters	ST10~T20	SD-T12/T20		S-T10	S(D)-T12/T20	S(D)-T21/T25
	Magnetic Contactors	-	-	-	-	-	-
	Contact Relays	-			-		
	thermal relay	-		TH-T18(KP)	-		

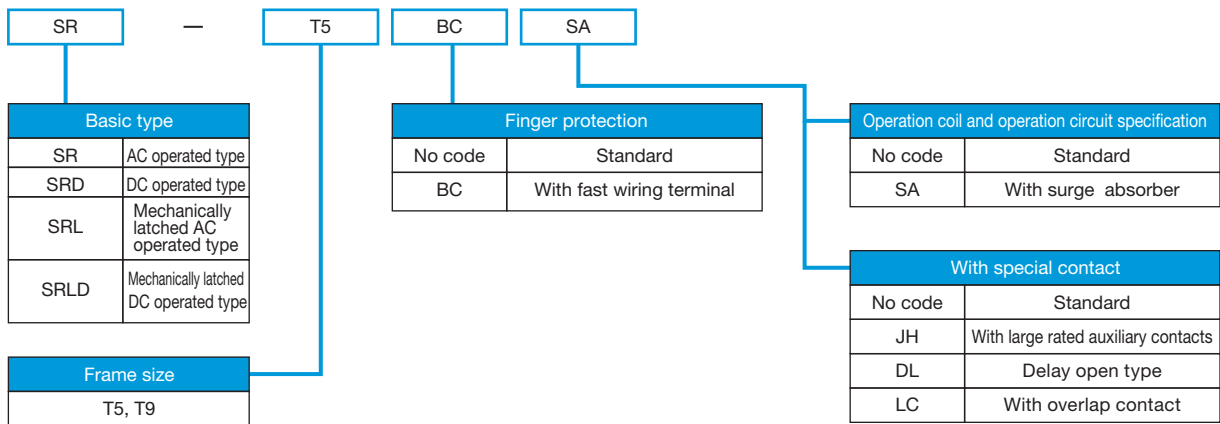
Model name		DC/AC interface unit for coil		Main circuit surge absorber unit	
Type	UT-SY21	UT-SY22	UT-SA3320	UT-SA3332	
Mounting	Mounting on top		Mounting on head		
Specification/Function	No-contact output (Triac output)	Contact output (Relay output)	C+R delta connection		
Appearance (Typical example)					
	UT-SY21		UT-SA3320		
Applied model	Magnetic Starters	S-T10~T50		S(D)-T10~T20	S(D)-T21~T32
	Magnetic Contactors	MSO-T10~T50		MSO(D)-T10~T20	MSO(D)-T21~T32
	Contact Relays	SR-T5/T9			
	thermal relay	-		-	-

Note 1: The head on and side on type mounting styles cannot be used simultaneously on the auxiliary contact unit.  
 Note 2: Power supply side and load side conductors are available, and therefore care should be taken when connecting.  
 Note 3: Use UN-SD18CX when mounting on T32.

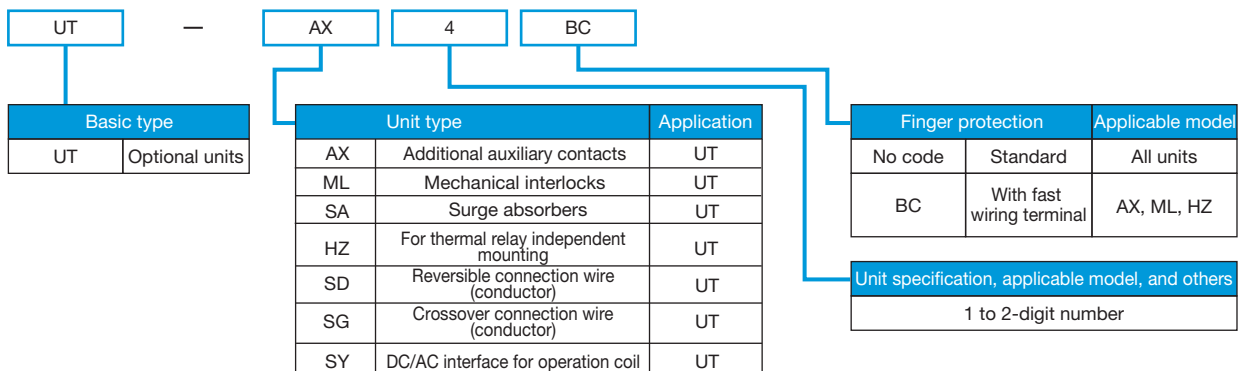
## Thermal Overload Relays



## Contactors Relays



## Optional Units



MS-T Series Introduction

Selection and Application

Application to Thermal Overload Relays

Product Introduction

Overseas Standard

Type Codes

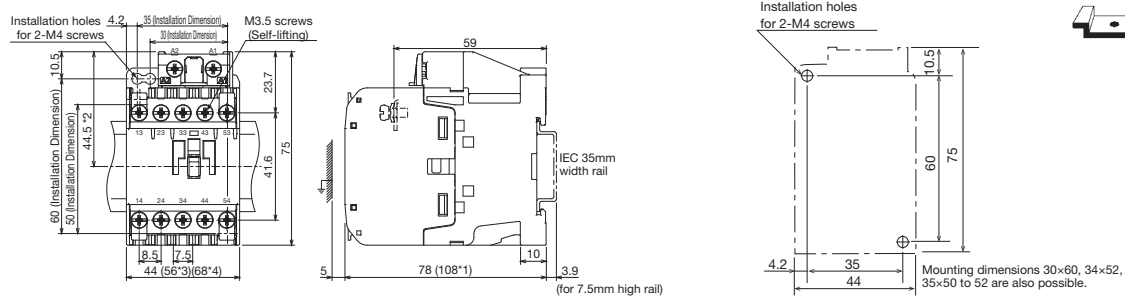
Order Procedure

Outline Drawing

Warranty and Safety

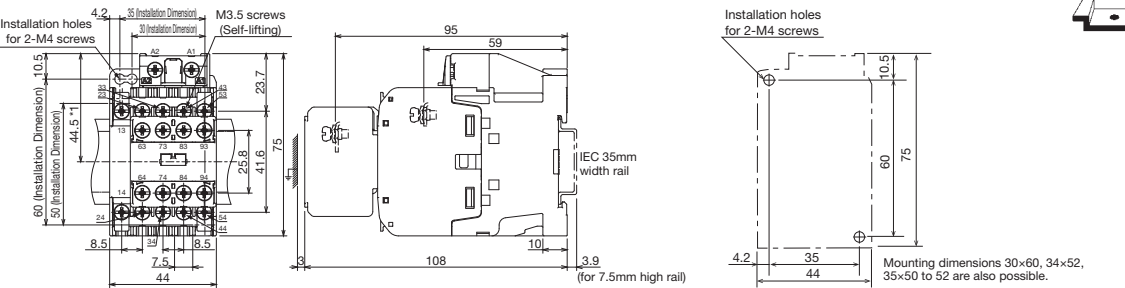
## Contactor Relays (AC operated)

### SR-T5(BC)



\*1 dimensions: With head mounted auxiliary contact unit (UT-AX2(BC), UT-AX4(BC))  
 \*2 dimensions: Dimensions from center of IEC 35mm width rail  
 \*3, \*4 dimensions: With side mounted auxiliary contact unit (UT-AX11(BC)) ... \*3 shows dimension for one unit, and \*4 shows dimensions with two units (both sides).

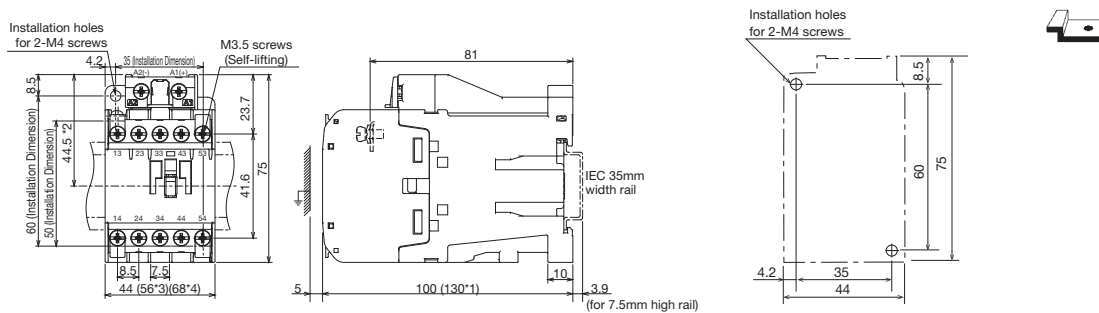
### SR-T9(BC)



\*1 dimensions: Dimensions from center of IEC 35mm width rail

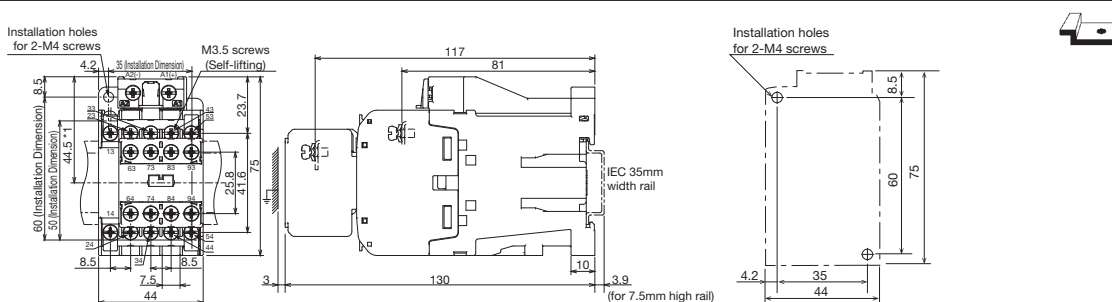
## Contactor Relays (DC operated)

### SRD-T5(BC)



\*1 dimensions: With head mounted auxiliary contact unit (UT-AX2(BC), UT-AX4(BC))  
 \*2 dimensions: Dimensions from center of IEC 35mm width rail  
 \*3, \*4 dimensions: With side mounted auxiliary contact unit (UT-AX11(BC)) ... \*3 shows dimension for one unit, and \*4 shows dimensions with two units (both sides).

### SRD-T9(BC)



\*1 dimensions: Dimensions from center of IEC 35mm width rail