

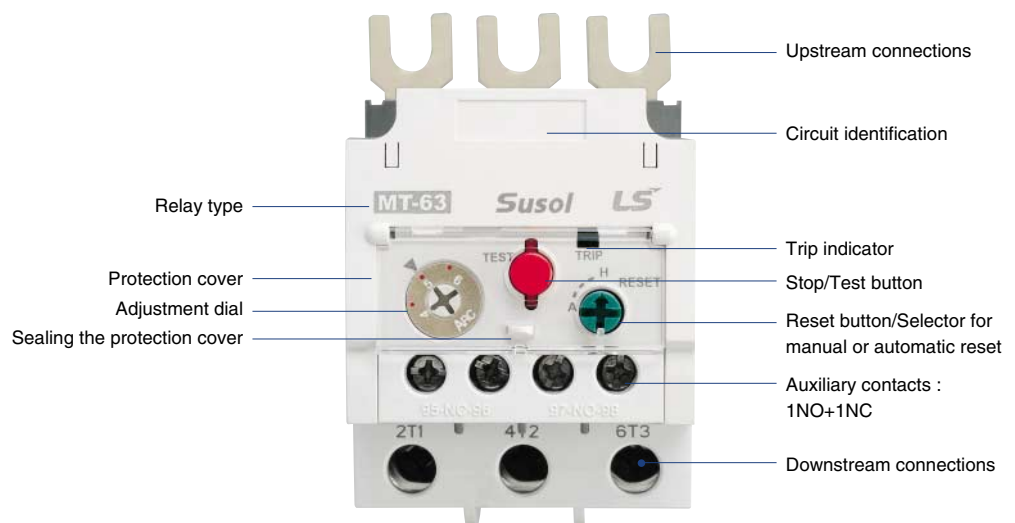
Overload relays

Susol

Specifications

Type MT, bimetal-style, overload relays are designed to protect AC circuits and motors against overloads, phase failure, long starting times and prolonged stalling of the motor.

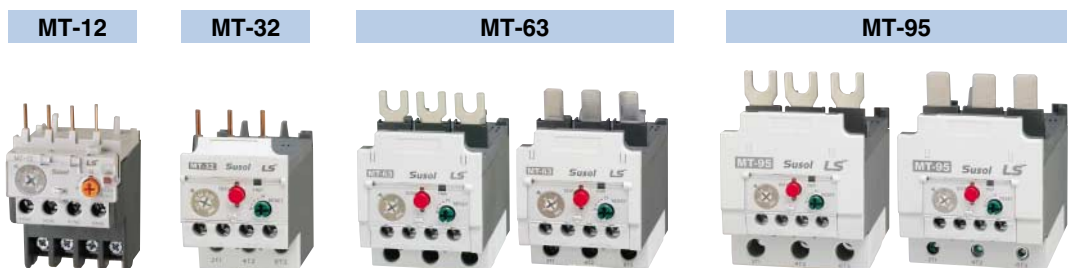
Configuration



Note :

- Relays are supplied with the selector in the manual position.
- Test button allows:
 - checking of control circuit wiring,
 - simulation of relay tripping (actuates both the NO and NC contacts).
 - Push the button(stop function)
 - Pull the button(test function)

	Stop	Test/ Trip	Reset
NC 95-96			
NO 97-98			



Overload relays

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Specifications

Combinations

Overload Relay		Contactor
Type	Setting range	Type
MT-12	0.1~12A	MC-9a
		MC-12a
MT-32	0.1~32A	MC-9
		MC-12
		MC-18
		MC-25
		MC-32
		MC-35
		MC-40
MT-63	4~65A	MC-50
		MC-63
		MC-65
MT-95	7~95A	MC-75
		MC-85
		MC-95



Environment		
Standards	EN 60947-1, EN 60947-4-1	
Product certifications	CE, CSA, UL	
Degree of protection (IEC 60 529)	IP 20	
Ambient air temperature	Storage	-60 ... +70°C
	Normal operation	-5 ... +55°C
Operating positions	In relation to normal, vertical mounting plane	
Shock resistance (IEC 68-2-7)	15gn - 11ms	
Vibration resistance (IEC 68-2-6)	6gn	
Dielectric strength at 50 Hz (IEC 255-5)	6kV	
Impulse withstand voltage (IEC 801-5)	6kV	
Auxiliary contact characteristics		
Rating	1NO + 1NC	
Thermal current	C600, R300	
Connection to screw clamp terminals	1 or 2 conductors	
	- Flexible cable with cable end	1~2.5mm ²
	- Flexible cable with end	1~2.5mm ²
	- Solid cable without cable end	1~2.5mm ²
	- Tightening torque	2.3N.m

Overload relays

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MT-63



63AF

MT-63/3K□S	MT-63/3D□S	MT-63/3K□L	MT-63/3D□L
MT-63/3H□S	-	MT-63/3H□L	-
MT-63/2H□S		MT-63/2H□L	
10A	20	10A	20
Screw clamp		Lug	
3		3	
Up to 690V		Up to 690V	
690V		690V	
6kV		6kV	
4~65A		4~65A	
IP 20		IP 20	
-5 ~ +40		-5 ~ +40	
•		•	
•		•	
•		•	
•		•	
MC-35, 40, 50, 63			

MT-95



95AF

MT-95/3K□S	MT-95/3D□S	MT-95/3K□L	MT-95/3D□L
MT-95/3H□S	-	MT-95/3H□L	-
MT-95/2H□S		MT-95/2H□L	
10A	20	10A	20
Screw clamp		Lug	
3		3	
Up to 690V		Up to 690V	
690V		690V	
6kV		6kV	
7~95A		7~95A	
IP 20		IP 20	
-5 ~ +40		-5 ~ +40	
•		•	
•		•	
•		•	
•		•	
MC-65, 75, 85, 95			

63AF	95AF	Current Setting range(A)	Wire		Type	Max. number of conductors	Short circuit "I"					
			Size									
			mm ²	AWG								
		0.1~0.16	1	18	65/75°C Cu-wire only	2	-					
		0.16~0.25										
		0.25~0.4										
		0.4~0.63										
		0.63~1										
		1~1.6										
		1.6~2.5										
		2.5~4										
•		4~6										
•		5~8										
•		6~9	1~1.5	18~16	65/75°C Cu-wire only	2	1kA					
•	•	7~10										
•	•	9~13										
•	•	12~18										
•	•	16~22										
•	•	18~25										
•	•	22~32						4~6	10	65/75°C Cu-wire only	2	3kA
•	•	24~36										
•	•	28~40										
•	•	34~50										
•	•	45~65										
	•	54~75	16~25	6~4	65/75°C Cu-wire only	2	5kA					
	•	63~85										
	•	70~95										

Overload relays

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Characteristics class 10A

for direct mounting beneath contactors
with connection by screw clamp terminals



MT-12/3K □



MT-32/3K □



MT-63/3K □S



MT-95/3K □S

Corresponding contactors	Relay setting range	Relay types			Weight
		Differential	Non-differential		
Type	A	3Heaters	3Heaters	2Heaters	kg
MC-9a MC-12a	0.1~0.16 0.16~0.25 0.25~0.4 0.4~0.63 0.63~1 1~1.6 1.6~2.5 2.5~4 4~6 5~8 6~9 7~10 9~13	MT-12/3K 0.14 MT-12/3K 0.21 MT-12/3K 0.33 MT-12/3K 0.52 MT-12/3K 0.82 MT-12/3K 1.3 MT-12/3K 2.1 MT-12/3K 3.3 MT-12/3K 5 MT-12/3K 6.5 MT-12/3K 7.5 MT-12/3K 8.5 MT-12/3K 11	MT-12/3H 0.14 MT-12/3H 0.21 MT-12/3H 0.33 MT-12/3H 0.52 MT-12/3H 0.82 MT-12/3H 1.3 MT-12/3H 2.1 MT-12/3H 3.3 MT-12/3H 5 MT-12/3H 6.5 MT-12/3H 7.5 MT-12/3H 8.5 MT-12/3H 11	MT-12/2H 0.14 MT-12/2H 0.21 MT-12/2H 0.33 MT-12/2H 0.52 MT-12/2H 0.82 MT-12/2H 1.3 MT-12/2H 2.1 MT-12/2H 3.3 MT-12/2H 5 MT-12/2H 6.5 MT-12/2H 7.5 MT-12/2H 8.5 MT-12/2H 11	0.1
MC-9 MC-12 MC-18 MC-25 MC-32	0.1~0.16 0.16~0.25 0.25~0.4 0.4~0.63 0.63~1 1~1.6 1.6~2.5 2.5~4 4~6 5~8 6~9 7~10 9~13 12~18 16~22 18~25 22~32	MT-32/3K 0.14 MT-32/3K 0.21 MT-32/3K 0.33 MT-32/3K 0.52 MT-32/3K 0.82 MT-32/3K 1.3 MT-32/3K 2.1 MT-32/3K 3.3 MT-32/3K 5 MT-32/3K 6.5 MT-32/3K 7.5 MT-32/3K 8.5 MT-32/3K 11 MT-32/3K 15 MT-32/3K 19 MT-32/3K 21.5 MT-32/3K 27	MT-32/3H 0.14 MT-32/3H 0.21 MT-32/3H 0.33 MT-32/3H 0.52 MT-32/3H 0.82 MT-32/3H 1.3 MT-32/3H 2.1 MT-32/3H 3.3 MT-32/3H 5 MT-32/3H 6.5 MT-32/3H 7.5 MT-32/3H 8.5 MT-32/3H 11 MT-32/3H 15 MT-32/3H 19 MT-32/3H 21.5 MT-32/3H 27	MT-32/2H 0.14 MT-32/2H 0.21 MT-32/2H 0.33 MT-32/2H 0.52 MT-32/2H 0.82 MT-32/2H 1.3 MT-32/2H 2.1 MT-32/2H 3.3 MT-32/2H 5 MT-32/2H 6.5 MT-32/2H 7.5 MT-32/2H 8.5 MT-32/2H 11 MT-32/2H 15 MT-32/2H 19 MT-32/2H 21.5 MT-32/2H 27	0.17
MC-35 MC-40 MC-50 MC-63	4~6 5~8 6~9 7~10 9~13 12~18 16~22 18~25 24~36 28~40 34~50 45~65	MT-63/3K 5S MT-63/3K 6.5S MT-63/3K 7.5S MT-63/3K 8.5S MT-63/3K 11S MT-63/3K 15S MT-63/3K 19S MT-63/3K 21.5S MT-63/3K 30S MT-63/3K 34S MT-63/3K 42S MT-63/3K 55S	MT-63/3H 5S MT-63/3H 6.5S MT-63/3H 7.5S MT-63/3H 8.5S MT-63/3H 11S MT-63/3H 15S MT-63/3H 19S MT-63/3H 21.5S MT-63/3H 30S MT-63/3H 34S MT-63/3H 42S MT-63/3H 55S	MT-63/2H 5S MT-63/2H 6.5S MT-63/2H 7.5S MT-63/2H 8.5S MT-63/2H 11S MT-63/2H 15S MT-63/2H 19S MT-63/2H 21.5S MT-63/2H 30S MT-63/2H 34S MT-63/2H 42S MT-63/2H 55S	0.31
MC-65 MC-75 MC-85 MC-95	7~10 9~13 12~18 16~22 18~25 24~36 28~40 34~50 45~65 54~75 63~85 70~95	MT-95/3K 8.5S MT-95/3K 11S MT-95/3K 15S MT-95/3K 19S MT-95/3K 21.5S MT-95/3K 30S MT-95/3K 34S MT-95/3K 42S MT-95/3K 55S MT-95/3K 65S MT-95/3K 74S MT-95/3K 83S	MT-95/3H 8.5S MT-95/3H 11S MT-95/3H 15S MT-95/3H 19S MT-95/3H 21.5S MT-95/3H 30S MT-95/3H 34S MT-95/3H 42S MT-95/3H 55S MT-95/3H 65S MT-95/3H 74S MT-95/3H 83S	MT-95/2H 8.5S MT-95/2H 11S MT-95/2H 15S MT-95/2H 19S MT-95/2H 21.5S MT-95/2H 30S MT-95/2H 34S MT-95/2H 42S MT-95/2H 55S MT-95/2H 65S MT-95/2H 74S MT-95/2H 83S	0.48

Accessories

Separate mounting adapters and remote reset unit : see pages 31.

Mounting

Direct mounting on to a contactor with screw clamp terminals

Overload relays

Susol

Characteristics class 10A

for direct mounting beneath contactors
with connection by lug terminals



MT-63/3K □L



MT-95/3K □L

Corresponding contactors	Relay setting range	Relay types			Weight	
		Differential	Non-differential			
Type	A	3Heaters	3Heaters	2Heaters	kg	
MC-35	4~6	MT-63/3K 5L	MT-63/3H 5L	MT-63/2H 5L	0.33	
MC-40	5~8	MT-63/3K 6.5L	MT-63/3H 6.5L	MT-63/2H 6.5L		
MC-50	6~9	MT-63/3K 7.5L	MT-63/3H 7.5L	MT-63/2H 7.5L		
MC-63	7~10	MT-63/3K 8.5L	MT-63/3H 8.5L	MT-63/2H 8.5L		
	9~13	MT-63/3K 11L	MT-63/3H 11L	MT-63/2H 11L		
	12~18	MT-63/3K 15L	MT-63/3H 15L	MT-63/2H 15L		
	16~22	MT-63/3K 19L	MT-63/3H 19L	MT-63/2H 19L		
	18~25	MT-63/3K 21.5L	MT-63/3H 21.5L	MT-63/2H 21.5L		
	24~36	MT-63/3K 30L	MT-63/3H 30L	MT-63/2H 30L		
	28~40	MT-63/3K 34L	MT-63/3H 34L	MT-63/2H 34L		
	34~50	MT-63/3K 42L	MT-63/3H 42L	MT-63/2H 42L		
	45~65	MT-63/3K 55L	MT-63/3H 55L	MT-63/2H 55L		
MC-65	7~10	MT-95/3K 8.5L	MT-95/3H 8.5L	MT-95/2H 8.5L		0.50
MC-75	9~13	MT-95/3K 11L	MT-95/3H 11L	MT-95/2H 11L		
MC-85	12~18	MT-95/3K 15L	MT-95/3H 15L	MT-95/2H 15L		
MC-95	16~22	MT-95/3K 19L	MT-95/3H 19L	MT-95/2H 19L		
	18~25	MT-95/3K 21.5L	MT-95/3H 21.5L	MT-95/2H 21.5L		
	24~36	MT-95/3K 30L	MT-95/3H 30L	MT-95/2H 30L		
	28~40	MT-95/3K 34L	MT-95/3H 34L	MT-95/2H 34L		
	34~50	MT-95/3K 42L	MT-95/3H 42L	MT-95/2H 42L		
	45~65	MT-95/3K 55L	MT-95/3H 55L	MT-95/2H 55L		
	54~75	MT-95/3K 65L	MT-95/3H 65L	MT-95/2H 65L		
	63~85	MT-95/3K 74L	MT-95/3H 74L	MT-95/2H 74L		
	70~95	MT-95/3K 83L	MT-95/3H 83L	MT-95/2H 83L		

Accessories

Separate mounting adapters and remote reset unit : see pages 31.

Mounting

Direct mounting on to a contactor with lug terminals

Overload relays

Susol

Characteristics class 20

for direct mounting beneath contactors
with connection by screw clamp terminals



MT-12/3D □



MT-32/3D □



MT-63/3D □S



MT-95/3D □S

Corresponding contactors	Relay setting range	Relay types	Weight
		Differential	
Type	A	3Heaters	kg
MC-9a MC-12a	1~1.6 1.6~2.5 2.5~4 4~6 5~8 6~9 7~10 9~13	MT-12/3D 1.3 MT-12/3D 2.1 MT-12/3D 3.3 MT-12/3D 5 MT-12/3D 6.5 MT-12/3D 7.5 MT-12/3D 8.5 MT-12/3D 11	0.1
MC-9 MC-12 MC-18 MC-25 MC-32	1~1.6 1.6~2.5 2.5~4 4~6 5~8 6~9 7~10 9~13 12~18 16~22 18~25 22~32	MT-32/3D 1.3 MT-32/3D 2.1 MT-32/3D 3.3 MT-32/3D 5 MT-32/3D 6.5 MT-32/3D 7.5 MT-32/3D 8.5 MT-32/3D 11 MT-32/3D 15 MT-32/3D 19 MT-32/3D 21.5 MT-32/3D 27	0.17
MC-35 MC-40 MC-50 MC-63	4~6 5~8 6~9 7~10 9~13 12~18 16~22 18~25 24~36 28~40 34~50 45~65	MT-63/3D 5S MT-63/3D 6.5S MT-63/3D 7.5S MT-63/3D 8.5S MT-63/3D 11S MT-63/3D 15S MT-63/3D 19S MT-63/3D 21.5S MT-63/3D 30S MT-63/3D 34S MT-63/3D 42S MT-63/3D 55S	0.31
MC-65 MC-75 MC-85 MC-95	7~10 9~13 12~18 16~22 18~25 24~36 28~40 34~50 45~65 54~75 63~85 70~95	MT-95/3D 8.5S MT-95/3D 11S MT-95/3D 15S MT-95/3D 19S MT-95/3D 21.5S MT-95/3D 30S MT-95/3D 34S MT-95/3D 42S MT-95/3D 55S MT-95/3D 65S MT-95/3D 74S MT-95/3D 83S	0.48

Accessories

Separate mounting adapters and remote reset unit : see pages 31.

Mounting

Direct mounting on to a contactor with screw clamp terminals

Overload relays

Susol

Characteristics class 20

for direct mounting beneath contactors
with connection by lug terminals



Corresponding contactors	Relay setting range	Relay types	Weight	
		Differential		
Type	A	3Heaters	kg	
MC-35	4~6	MT-63/3D 5L	0.33	
MC-40	5~8	MT-63/3D 6.5L		
MC-50	6~9	MT-63/3D 7.5L		
MC-63	7~10	MT-63/3D 8.5L		
	9~13	MT-63/3D 11L		
	12~18	MT-63/3D 15L		
	16~22	MT-63/3D 19L		
	18~25	MT-63/3D 21.5L		
	24~36	MT-63/3D 30L		
	28~40	MT-63/3D 34L		
	34~50	MT-63/3D 42L		
	45~65	MT-63/3D 55L		
MC-65	7~10	MT-95/3D 8.5L		0.50
MC-75	9~13	MT-95/3D 11L		
MC-85	12~18	MT-95/3D 15L		
MC-95	16~22	MT-95/3D 19L		
	18~25	MT-95/3D 21.5L		
	24~36	MT-95/3D 30L		
	28~40	MT-95/3D 34L		
	34~50	MT-95/3D 42L		
	45~65	MT-95/3D 55L		
	54~75	MT-95/3D 65L		
	63~85	MT-95/3D 74L		
	70~95	MT-95/3D 83L		

Accessories

Separate mounting adapters and remote reset unit : see pages 31.

Mounting

Direct mounting on to a contactor with lug terminals