

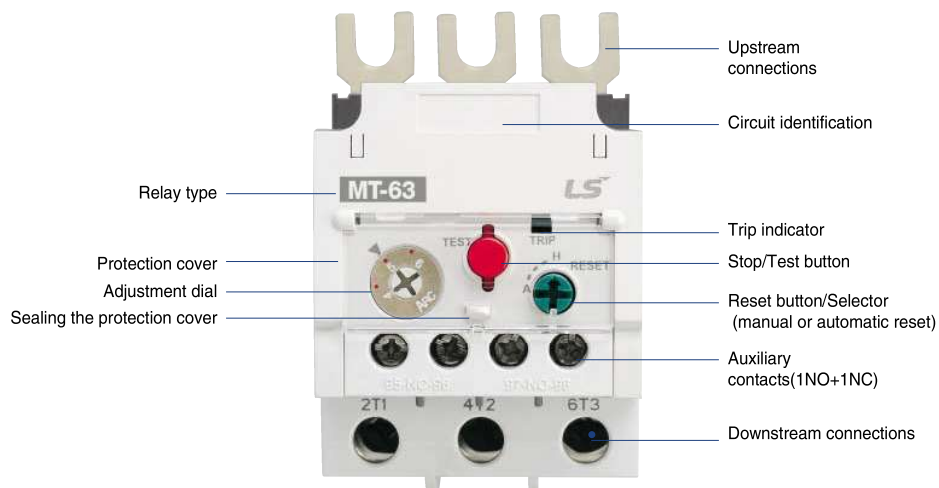
General descriptions

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.

Four versions are available according to the protection function and trip class as below.

1. Non-differential: 3pole-2bimetal(heater) and trip class 10A
2. Non-differential: 3pole-3bimetal(heater) and trip class 10A
3. Differential: 3pole-3bimetal(heater) and trip class 10A
4. Differential: 3pole-3bimetal(heater) and trip class 20

Configuration of the front



MT-12

MT-32

MT-63

MT-95



Environment and auxiliary circuit

Environment			MT-12~150	MT-225~800
Standards			IEC/EN 60947-1, IEC/EN 60947-4-1	IEC/EN 60947-1, IEC/EN 60947-4-1
Certifications			CE, CSA, UL	CE, CSA, UL
Rated operation voltage			Max. 690V	Max. 690V
Rated insulation voltage			690V	690V
Rated frequency			50/60Hz	50/60Hz
Degree of protection (Conforming to IEC 60 529)			IP 20	IP 20
Ambient air temperature	Storage		-55 ~ +80° C	-55 ~ +80° C
	Operation		-5 ~ +60° C	-5 ~ +60° C
Mounting position			Vertical plane	Vertical plane
Shock resistance (Conforming to IEC 68-2-7)			15gn - 11ms	15gn - 11ms
Vibration resistance (Conforming to IEC68-2-6)			6G	6G
Insulation strength (Conforming to IEC 255-5)			6kV	6kV
Rated impulse withstand voltage (Conforming to IEC 801-5)			6kV	6kV
Auxiliary contacts characteristics				
Composition			1a1b (1NO +1NC)	1NO+1NC
Rated thermal current			5A	5A
Rated operation current			C600, R300	C600, R300
AC15 duty (C600)	120V		1.5A	2.5A
	240V		0.75A	2A
	380V		0.47A	0.47A
	480V		0.375A	0.375A
	500V		0.35A	0.35A
	600V		0.3A	1A
DC13 duty (R300)	120V		0.22A	0.28A
	240V		0.1A	0.14A
Connecting conductor	Size		18AWG /1mm ²	18AWG /1mm ²
Connection to screw clamp terminals	Type		65/75° C Cu-wire	65/75° C Cu-wire

MT-150



MT-225



MT-400



MT-800



18AF

18AF	
10A	20
MT-12/2H□	-
MT-12/3H□	-
MT-12/3K□	MT-12/3D□
Screw clamp	
3	
690V	
Up to 690V	
6kV	
IP 20	
-5~+40°C	
■	
-	
■	
■	
0.1~18A	1~18A
0.1~0.16	
0.16~0.25	
0.25~0.4	
0.4~0.63	
0.63~1	
1~1.6	1~1.6
1.6~2.5	1.6~2.5
2.5~4	2.5~4
4~6	4~6
5~8	5~8
6~9	6~9
7~10	7~10
9~13	9~13
12~18	12~18
MC-6a, 9a, 12a, 18a	
-	



MT-32/3K□

40AF

10A	20
MT-32/2H□	-
MT-32/3H□	-
MT-32/3K□	MT-32/3D□
Screw clamp	
3	
690V	
Up to 690V	
6kV	
IP 20	
-5~+40°C	
■	
■	
■	
■	
0.1~40A	1~40A
0.1~0.16	
0.16~0.25	
0.25~0.4	
0.4~0.63	
0.63~1	
1~1.6	1~1.6
1.6~2.5	1.6~2.5
2.5~4	2.5~4
4~6	4~6
5~8	5~8
6~9	6~9
7~10	7~10
9~13	9~13
12~18	12~18
16~22	16~22
18~25	18~25
22~32	22~32
-	-
28~40	28~40
MC-9b, 12b, 18b, 22b, 32a, 40a	
UZ-32	



MT-63/3K□S

65AF

10A	20
MT-63/2H□S	-
MT-63/3H□S	-
MT-63/3K□S	MT-63/3D□S
Screw clamp	
3	
690V	
Up to 690V	
6kV	
IP 20	
-5~+40°C	
■	
■	
■	
■	
4~65A	
4~6	
5~8	
6~9	
7~10	
9~13	
12~18	
16~22	
18~25	
-	
24~36	
28~40	
34~50	
45~65	
MC-50a, 65a	
UZ-63/S	



MT-95/3K□S

100AF

10A	20
MT-95/2H□S	-
MT-95/3H□S	-
MT-95/3K□S	MT-95/3D□S
Screw clamp	
3	
690V	
Up to 690V	
6kV	
IP 20	
-5~+40°C	
■	
■	
■	
■	
7~100A	
7~10	
9~13	
12~18	
16~22	
18~25	
-	
24~36	
28~40	
34~50	
45~65	
54~75	
63~85	
70~95	
80~100	
MC-75a, 85a, 100a	
UZ-95/S	

Overload relay specifications

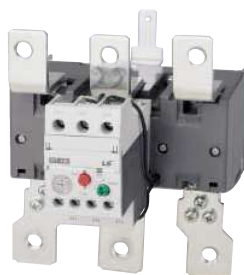
Meiasol

MT type Thermal Overload Relays



Frame size		
Trip class		
Type	Non-differential(3P-2 heater)	
	Non-differential(3P-3 heater)	
	Differential type	
Terminal type		
Number of poles		
Rated operational voltage (Ue)		
Rated insulation voltage (Ui)		
Rated impulse voltage (Uimp)		
Degree of protection (IEC 60 529)		
Temperature compensation (° C)		
Functions	Trip indicating	
	Stop	
	Test	
	Manual/Automatic Reset	
Setting range(A)		
Nominal current rating	Wire size	
	mm²	AWG
42	10	8
55	16	6
65	25	4
74	25	4
80	35	3
93	35	2
107	50	1
113	50	1
130	50	0
130	70	00
153	95	000
200	120	250
265	185	350
350	240	500
515	185 × 2n	350 × 2n
660	240 × 2n	300 × 3n
Applied contactors		
Separate mounting unit		

150AF	
10A	20
MT-150/2H□	-
MT-150/3H□	-
MT-150/3K□	MT-150/3D□
Screw clamp	
3	
690V	
690V	
6kV	
IP 20	
-5~+40°C	
■	
■	
■	
■	
34~150A	34~150A
34~50	
45~65	
54~75	
63~85	
-	
80~105	
-	
95~130	
110~150	
MC-130a, 150a	
UZ-150/S	



65~100
-
85~125
-
-
100~160
120~185
160~240

85~125
-
-
100~160
120~185
160~240
200~330
260~400

200~300
260~400
400~600
520~800