

Overload Relays

Specifications

Electrical characteristics of power circuit

Relay type		GT12	GT32	GT63		GT95	
Type	Differential type (Phase failure protection)	GT125	GT32S	GT63S	GT63L	GT95S	GT95L
Tripping class(IEC 60947-4-1)		10	10	10	10	10	10
Terminal type		Screw clamp	Screw clamp	Screw clamp	Lug	Screw clamp	Lug
Number of poles		3	3	3	3	3	3
Rated operational voltage (Ue)		Up to 690V	Up to 690V	Up to 690V	Up to 690V	Up to 690V	Up to 690V
Rated insulation voltage (Ui)		690V	690V	690V	690V	690V	690V
Rated impulse voltage (Uimp)		6kV	6kV	6kV	6kV	6kV	6kV
Setting range		0.1~12A	0.1~32A	4~65A	4~65A	7~95A	7~95A
Degree of protection (IEC 60 529)		IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Temperature compensation (°C)		-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40	-5 ~ +40
Functions							
	Trip indicating	●	●	●	●	●	●
	Stop	●	●	●	●	●	●
	Test	●	●	●	●	●	●
	Manual/Automatic Reset	●	●	●	●	●	●
Applied contactors		GC-9, 12	GC-18, 25, 32	GC-35, 40, 50, 63		GC-65, 75, 85, 95	

Note) is rated current.

Detail setting range and connection cable

12AF	32AF	63AF	95AF	Current Setting range(A)	Wire				Short circuit
Class					Size		Type	Max. number of conductors	"r"
12AF	32AF	63AF	95AF		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	1~1.5	18 ~16			3kA
●	●	●		4~6					
●	●	●		5~8					
●	●	●		6~9					
●	●	●	●	7~10					
●	●	●	●	9~13					
	●	●	●	12~18					
	●	●	●	16~22					
	●	●	●	18~25					
	●	●	●	22~32					
		●	●	24~36					
		●	●	28~40					
		●	●	34~50					
		●	●	45~65					
			●	54~75					
			●	63~85					
			●	70~95					

Overload Relays

Characteristics class 10A

differential 3 heater type for direct mounting beneath contactors
with connection by screw clamp terminals



GT12S



GT32S

Corresponding Contactors Type	Relay Setting Range A	Relay Types Differential 3 Heaters	Weight kg
GC9S GC12S	0.1~0.16	GT12S0.16A	0.1
	0.16~0.25	GT12S0.25A	
	0.25~0.4	GT12S0.4A	
	0.4~0.63	GT12S0.63A	
	0.63~1	GT12S1A	
	1~1.6	GT12S1.6A	
	1.6~2.5	GT12S2.5A	
	2.5~4	GT12S4A	
	4~6	GT12S6A	
	5~8	GT12S8A	
	6~9	GT12S9A	
	7~10	GT12S10A	
	9~13	GT12S13A	
GC18S GC25S GC32S	0.1~0.16	GT32S0.16A	0.17
	0.16~0.25	GT32S0.25A	
	0.25~0.4	GT32S0.4A	
	0.4~0.63	GT32S0.63A	
	0.63~1	GT32S1A	
	1~1.6	GT32S1.6A	
	1.6~2.5	GT32S2.5A	
	2.5~4	GT32S4A	
	4~6	GT32S6A	
	5~8	GT32S8A	
	6~9	GT32S9A	
	7~10	GT32S10A	
	9~13	GT32S13A	
	12~18	GT32S18A	
	16~22	GT32S22A	
	18~25	GT32S25A	
	22~32	GT32S32A	

Accessories

Separate mounting adapters and remote reset unit :
see pages B-2-7 to B-2-8

Mounting

Direct mounting on to a contactor with screw clamp
terminals

Overload Relays

Characteristics class 10A

differential 3 heater type for direct mounting beneath contactors
with connection by lug terminals



GT63L



GT95L

Corresponding Contactors Type	Relay Setting Range A	Relay Type Differential 3 Heaters	Weight Kg
GC35L GC40L GC50L GC63L	4~6	GT63L6A	0.33
	5~8	GT63L8A	
	6~9	GT63L9A	
	7~10	GT63L10A	
	9~13	GT63L13A	
	12~18	GT63L18A	
	16~22	GT63L22A	
	18~25	GT63L25A	
	24~36	GT63L36A	
	28~40	GT63L40A	
	34~50	GT63L50A	
GC65L GC75L GC85L GC95L	45~65	GT63L65A	0.50
	7~10	GT95L10A	
	9~13	GT95L13A	
	12~ 18	GT95L18A	
	16~22	GT95L22A	
	18~25	GT95L25A	
	24~36	GT95L36A	
	28~40	GT95L40A	
	34~50	GT95L50A	
	45~65	GT95L65A	
	54~75	GT95L75A	
	63~85	GT95L85A	
	70~95	GT95L95A	

Accessories

Separate mounting adapters and remote reset unit :
see pages B-2-7 to B-2-8

Mounting

Direct mounting on to a contactor with lug
terminals

Overload Relays

Characteristics class 10A

differential 3 heater type for direct mounting beneath contactors
with connection by screw clamp terminals



GT63S



GT95S

Corresponding Contactors Type	Relay Setting Range A	Relay Types Differential 3 Heaters	Weight kg
GC35S	4~6	GT63S6A	0.31
GC40S	5~8	GT63S8A	
GC50S	6~9	GT63S9A	
GC63S	7~10	GT63S10A	
	9~13	GT63S13A	
	12~18	GT63S18A	
	16~22	GT63S22A	
	18~25	GT63S25A	
	24~36	GT63S36A	
	28~40	GT63S40A	
	34~50	GT63S50A	0.48
	45~65	GT63S65A	
GC65S	7~10	GT95S10A	
GC75S	9~13	GT95S13A	
GC85S	12~18	GT95S18A	
GC95S	16~22	GT95S22A	
	18~25	GT95S25A	
	24~36	GT95S36A	
	28~40	GT95S40A	
	34~50	GT95S50A	
	45~65	GT95S65A	
	54~75	GT95S75A	
	63~85	GT95S85A	
	70~95	GT95S95A	

Accessories

Separate mounting adapters and remote reset unit :
see pages B-2-7 to B-2-8

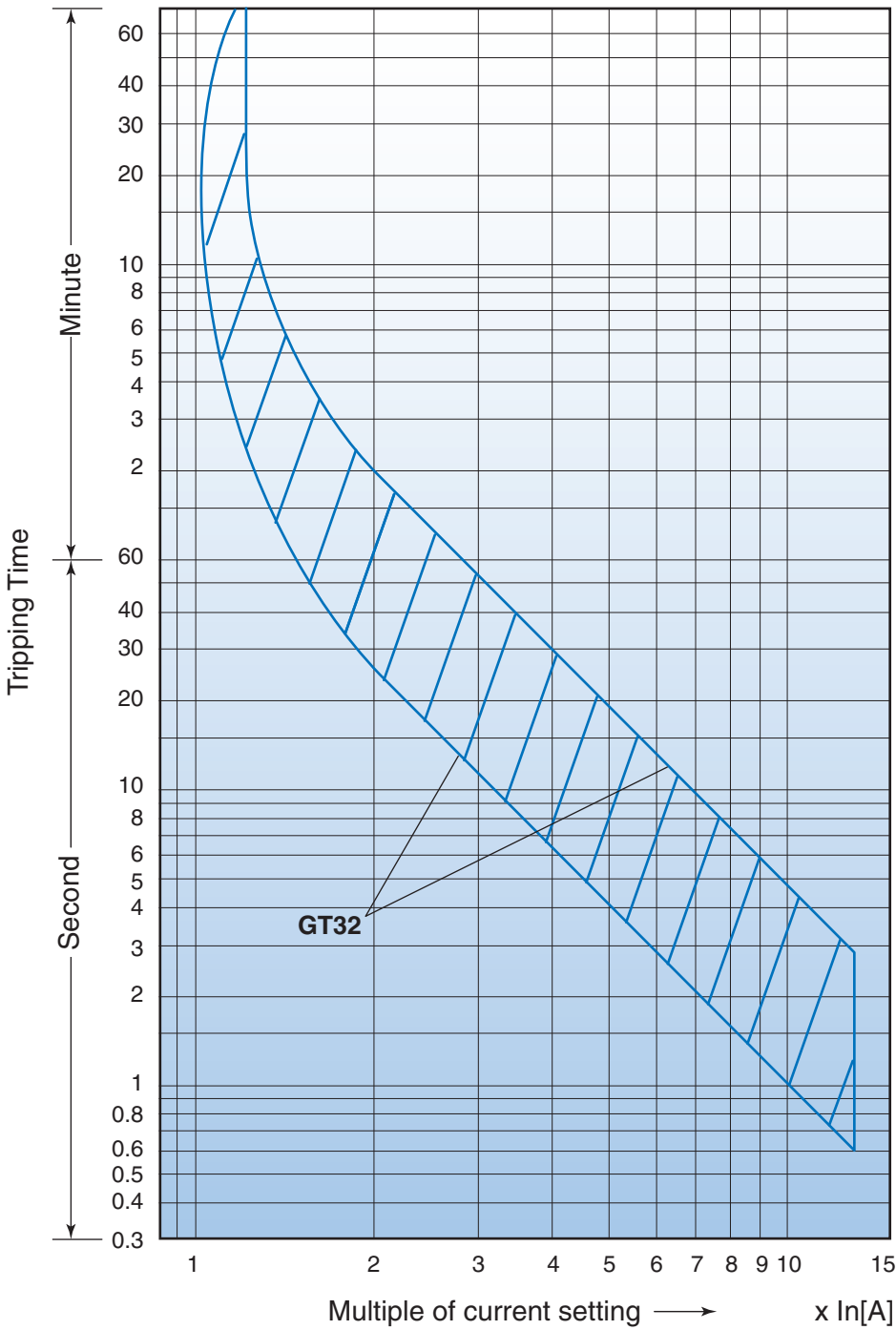
Mounting

Direct mounting on to a contactor with screw clamp
terminals

Tripping characteristics

Cold starting

GT32

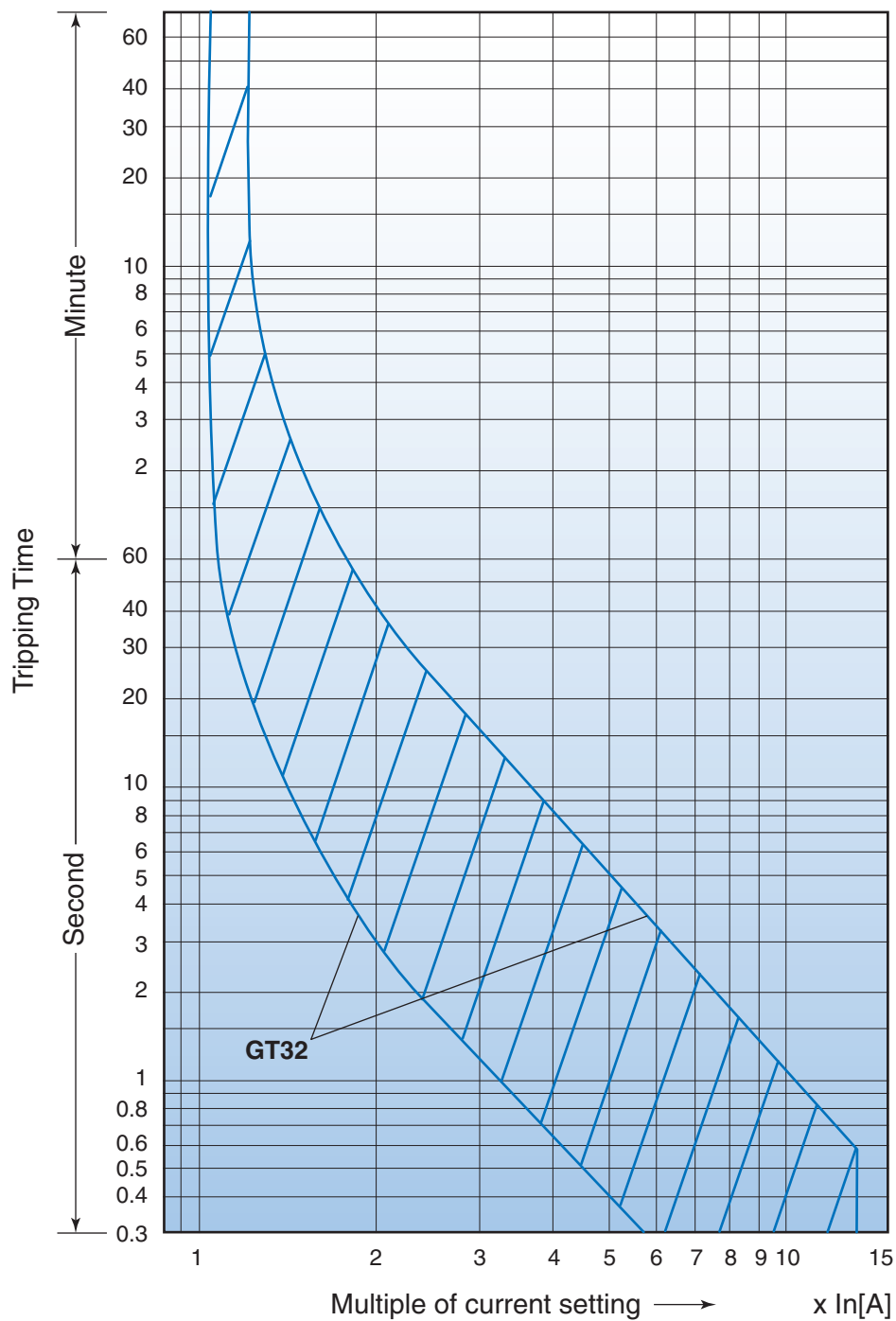


Overload Relays

Tripping characteristics

Hot starting

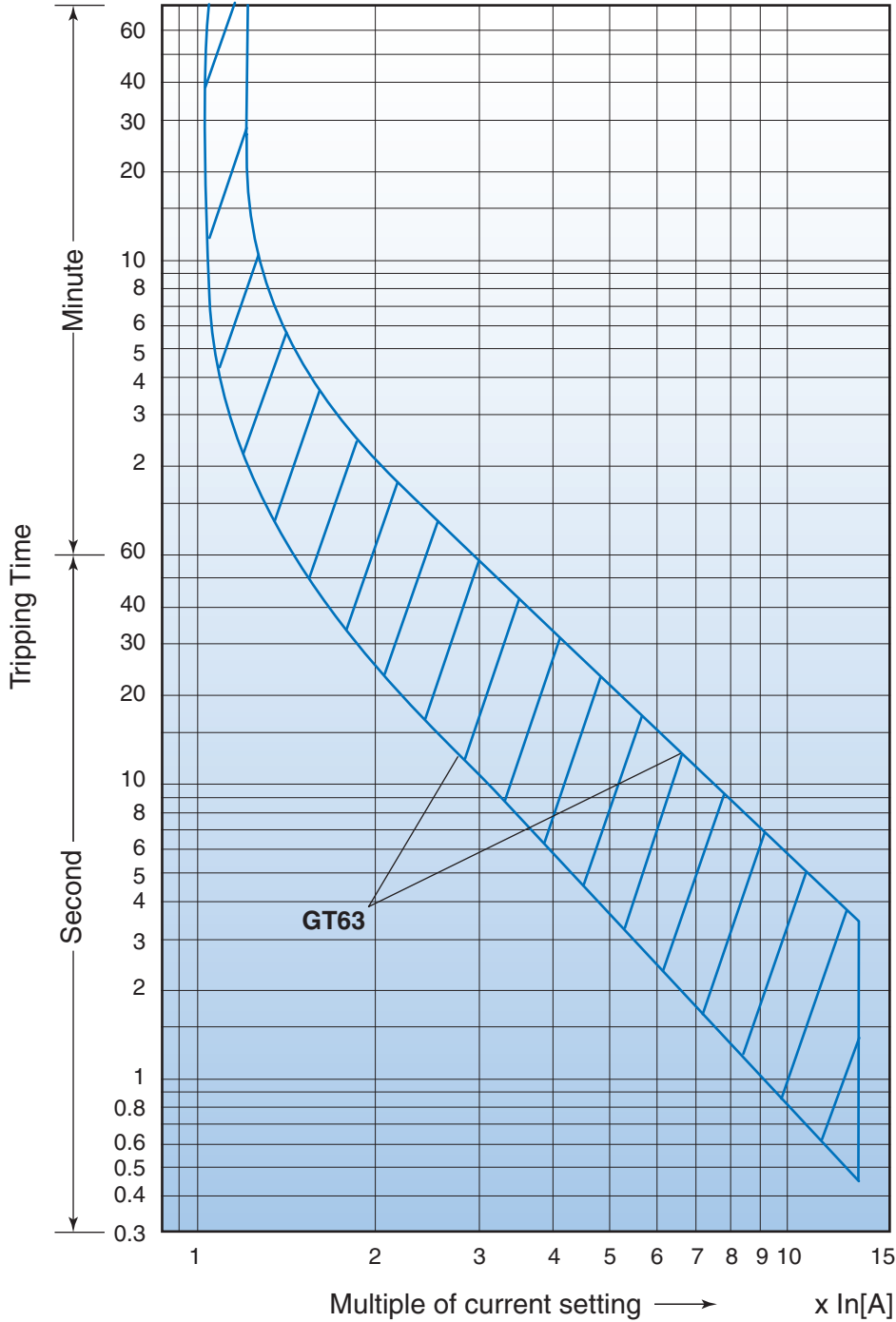
GT32



Tripping characteristics

Cold starting

GT63

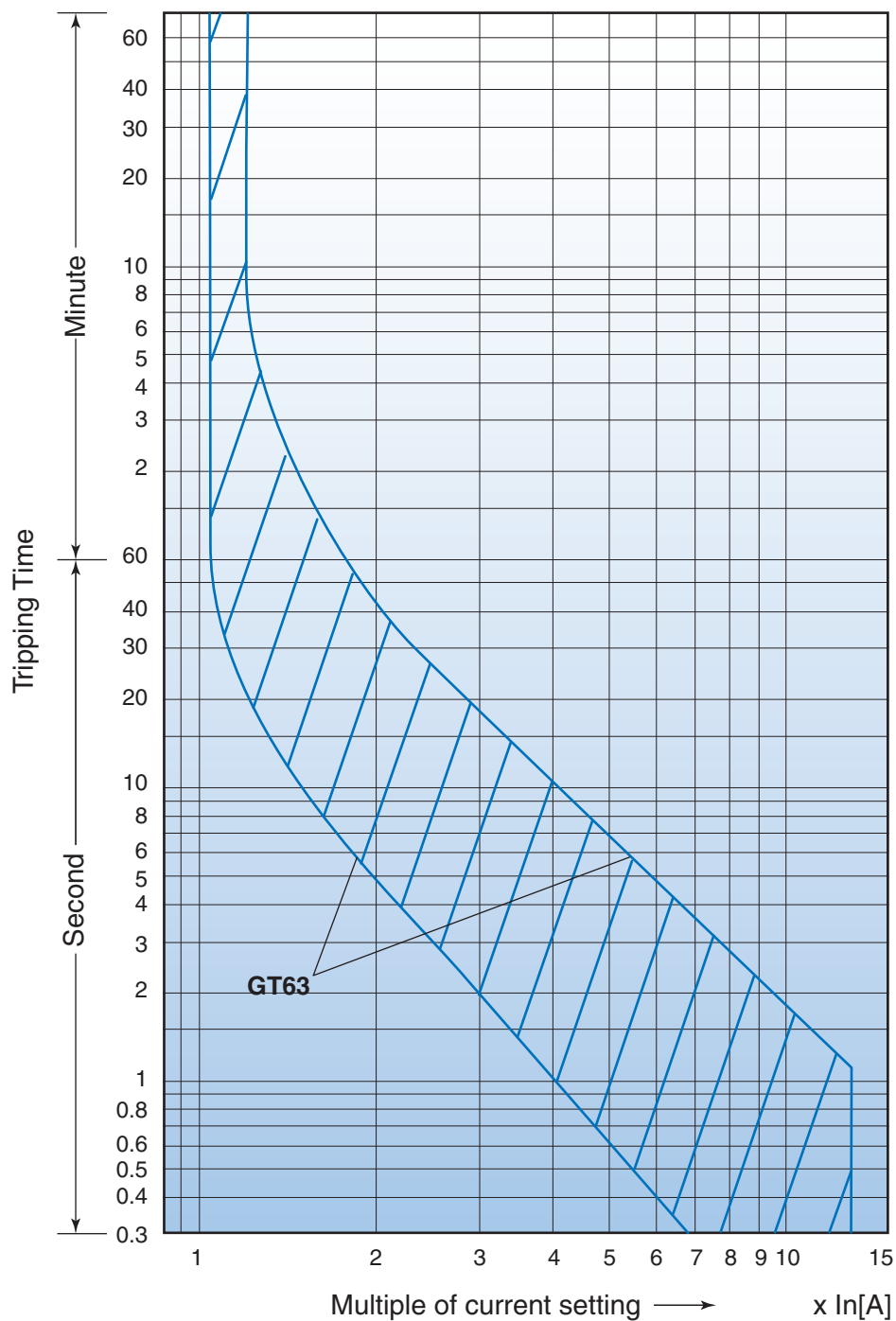


Overload Relays

Tripping characteristics

Hot starting

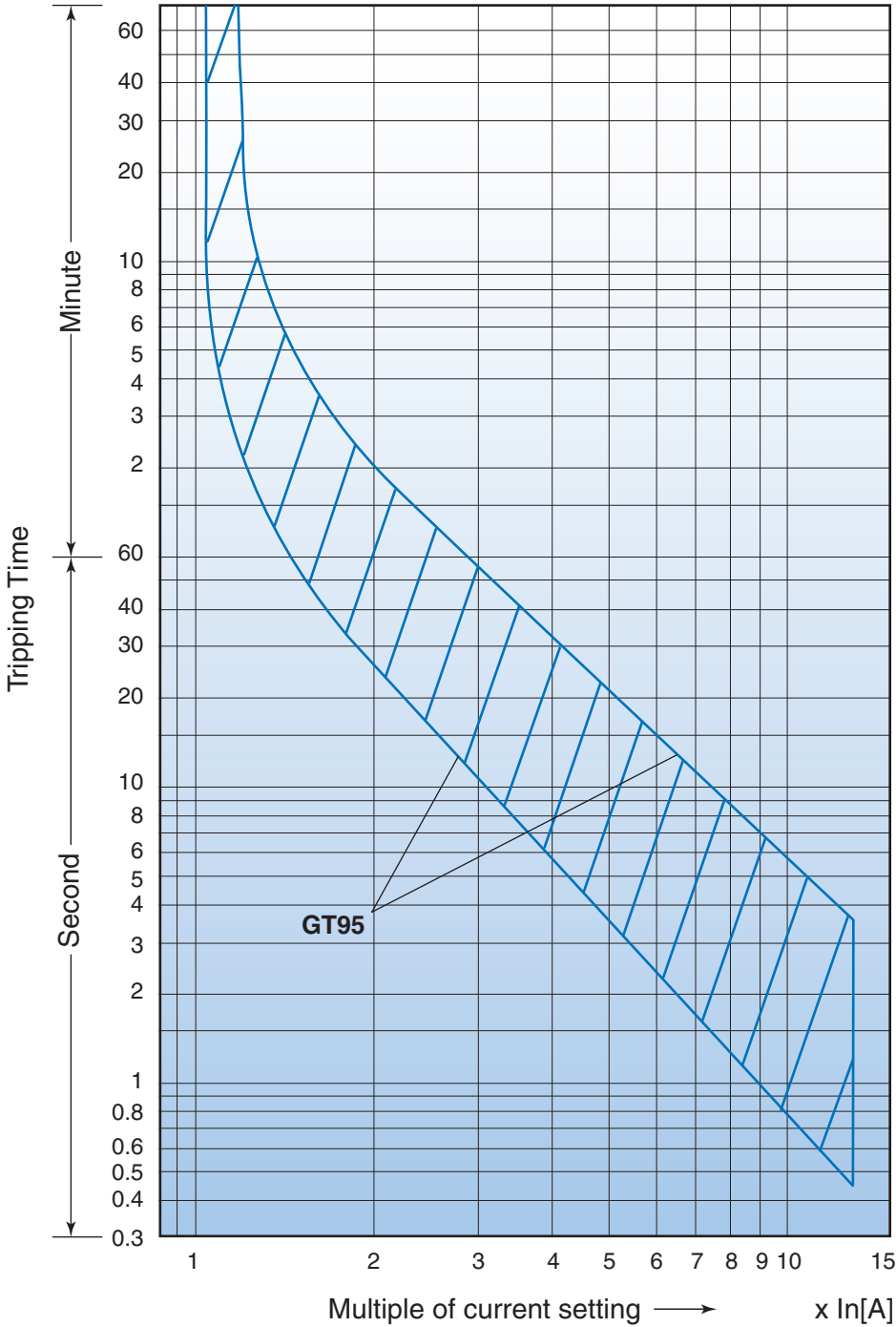
GT63



Tripping characteristics

Cold starting

GT95

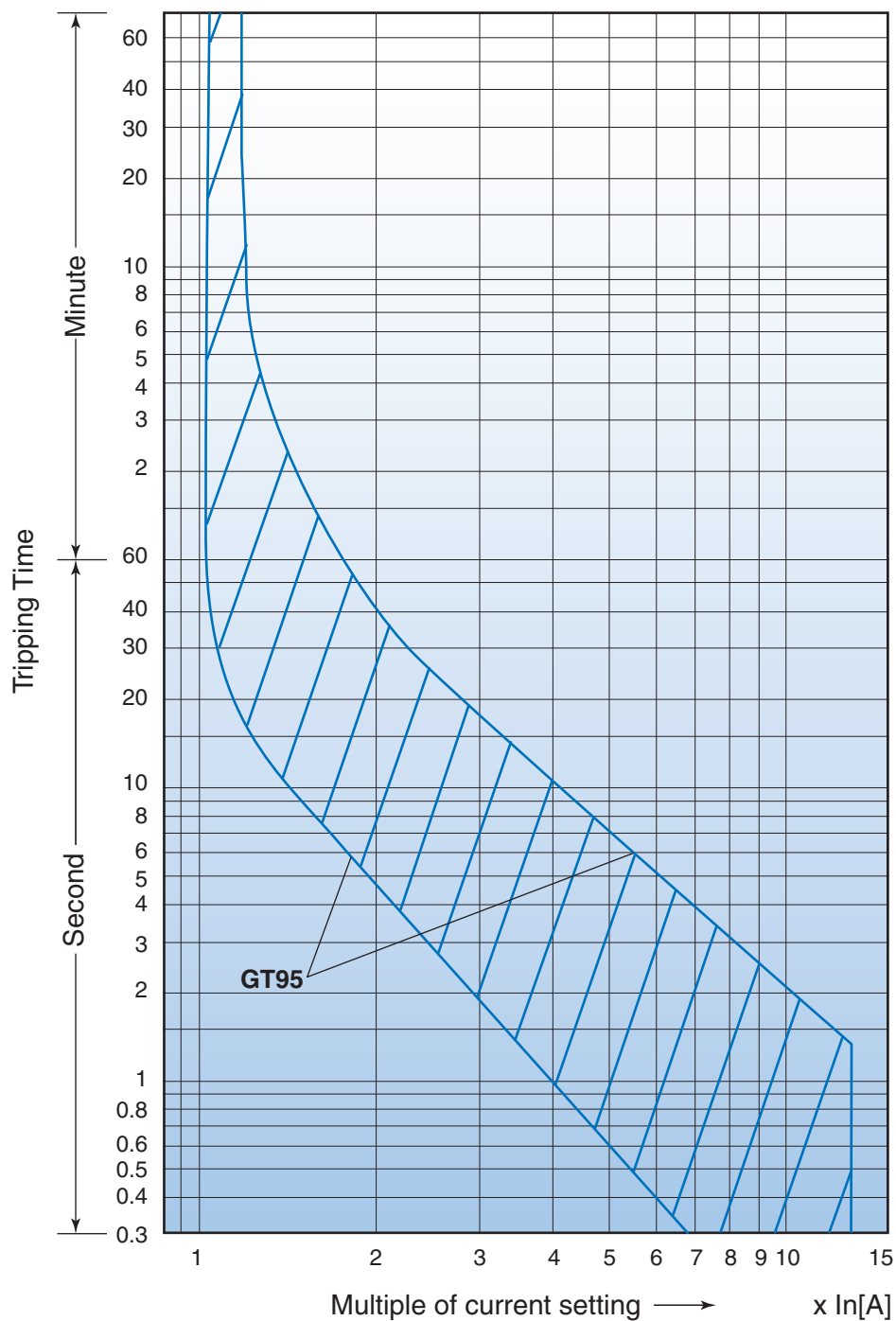


Overload Relays

Tripping characteristics

Hot starting

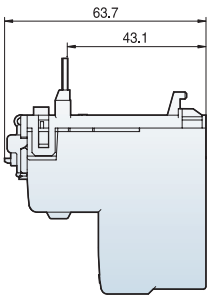
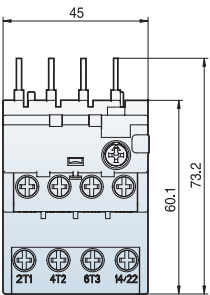
GT95



Overall Dimensions

Overload relays

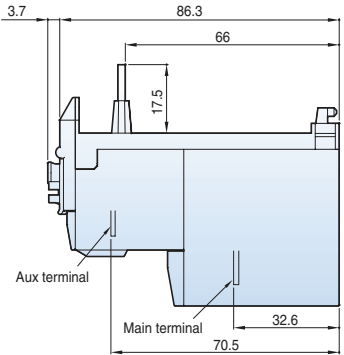
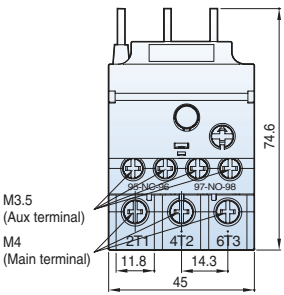
GT-12S



[mm]

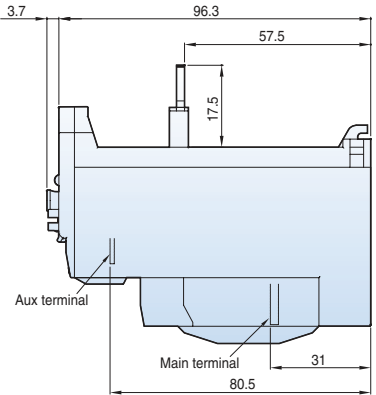
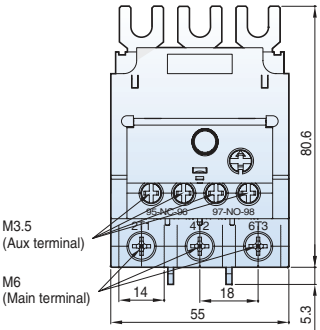
0.1kg

GT-32S



0.167kg

GT-63S

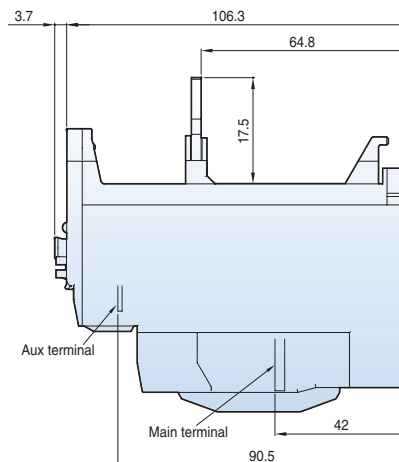
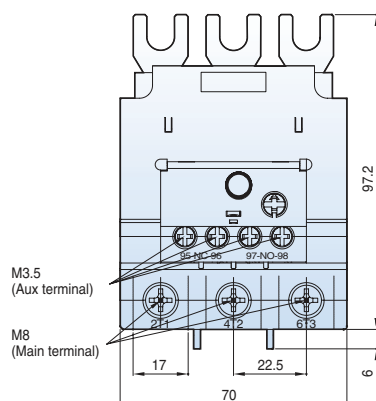


0.303kg

Overall Dimensions

Overload relays

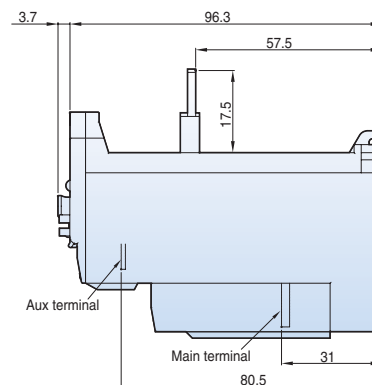
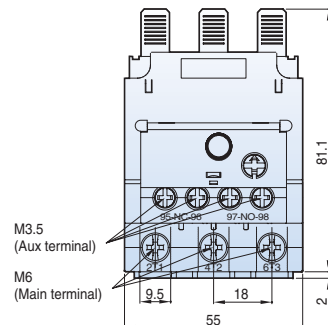
GT-95S



[mm]

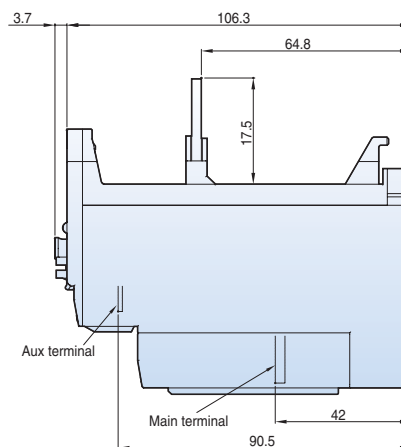
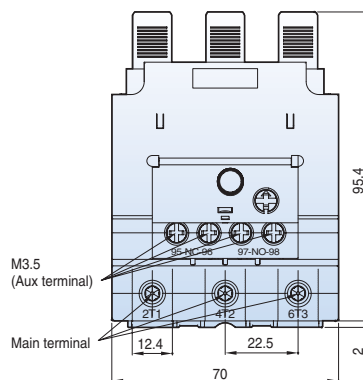
0.474kg

GT-63L



0.326kg

GT-95L



0.491kg

OVERLOAD RELAY NUMBERING SYSTEM

GT 32 S 6A

Overload Relay

Frame Size

12 32 63 95

Terminal Type

S Screw

L Lug

(for contactors with lug type terminals)

Setting Range

Frame Size

32 63 95

0.1-0.16 4-6 7-10

0.16-0.25 5-8 9-13

0.25-0.4 6-9 12-18

0.63-1 7-10 16-22

1-1.6 12-18 24-36

1.6-2.5 16-22 28-40

2.5-4 18-25 34-50

4-6 24-36 45-65

5-8 28-40 54-75

6-9 34-50 63-85

7-10 45-65 70-95

9-13

12-18

16-22

18-25

22-32

Ordering Notes:

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐

GT ☐ ☐ ☐ ☐