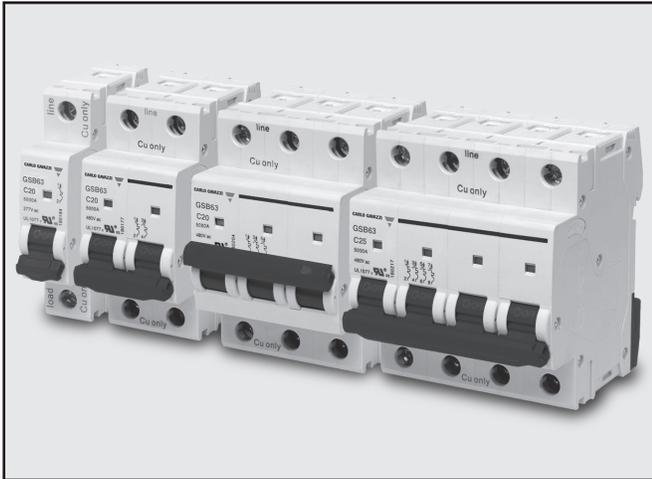


# Supplementary Circuit Protectors Type GSB63



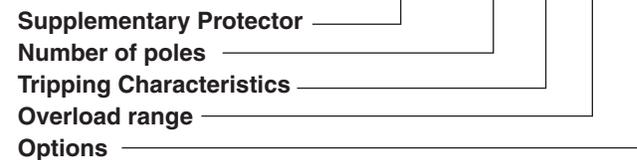
- Protection of circuits against short circuit and overload currents
- UL1077 supplementary protection
- 1, 2, 3 and 4 pole arrangements
- 13 amperage sizes up to 63Amps
- Icn of 5kA
- Bimetallic element for small overloads
- Magnetic element for short circuit protection
- C curve overload characteristics (standard)

## Product Description

Competitive line of supplementary circuit protectors intended for over current protection in applications where branch circuit protection is already provided or not required. GSB protectors are available in 1, 2, 3 and 4 pole configurations, with amperage rating up to 63A and voltage up to 480Y/277VAC.

## Ordering Key

**GSB63 1P C 20**



## Selection Guide

(standard products)

In	1-pole	2-pole	3-pole	4-pole
1	GSB63 1P C1	GSB63 2P C1	GSB63 3P C1	GSB63 4P C1
2	GSB63 1P C2	GSB63 2P C2	GSB63 3P C2	GSB63 4P C2
3	GSB63 1P C3	GSB63 2P C3	GSB63 3P C3	GSB63 4P C3
4	GSB63 1P C4	GSB63 2P C4	GSB63 3P C4	GSB63 4P C4
6	GSB63 1P C6	GSB63 2P C6	GSB63 3P C6	GSB63 4P C6
10	GSB63 1P C10	GSB63 2P C10	GSB63 3P C10	GSB63 4P C10
16	GSB63 1P C16	GSB63 2P C16	GSB63 3P C16	GSB63 4P C16
20	GSB63 1P C20	GSB63 2P C20	GSB63 3P C20	GSB63 4P C20
25	GSB63 1P C25	GSB63 2P C25	GSB63 3P C25	GSB63 4P C25
32	GSB63 1P C32	GSB63 2P C32	GSB63 3P C32	GSB63 4P C32
40	GSB63 1P C40	GSB63 2P C40	GSB63 3P C40	GSB63 4P C40
50	GSB63 1P C50	GSB63 2P C50	GSB63 3P C50	GSB63 4P C50
63	GSB63 1P C63	GSB63 2P C63	GSB63 3P C63	GSB63 4P C63

## Electrical Specifications

Rated Current	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63 A	
Poles	1, 2, 3 or 4 pole	
Rated Voltage	single phase 277 VAC	
	three phase 480Y/277VAC	
Insulation Voltage	500 VAC	
Rated Frequency	50/60 Hz	
Rated Breaking capacity	5,000 A	
Rated Impulse Withstand Voltage (1.2/50)	4,000 V	
Dielectric Test Voltage for 1 minute	2,000 V	
Pollution Degree	2	
Power loss per pole	1, 2, 3, 4, 5, 6, 10 A	2 W
	13, 16, 20, 25, 32 A	3.5 W
	40, 50, 63 A	5 W
Thermo—magnetic release characteristics	C (B and D upon request)	
Electrical life	4,000 cycles	

## Mechanical Specifications

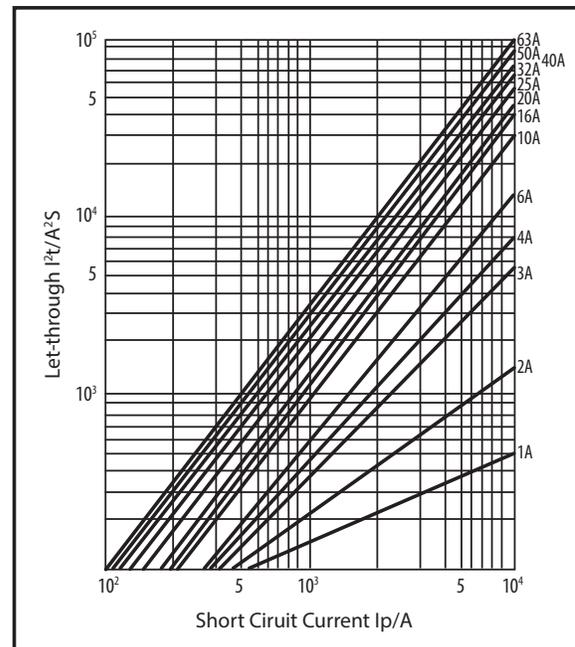
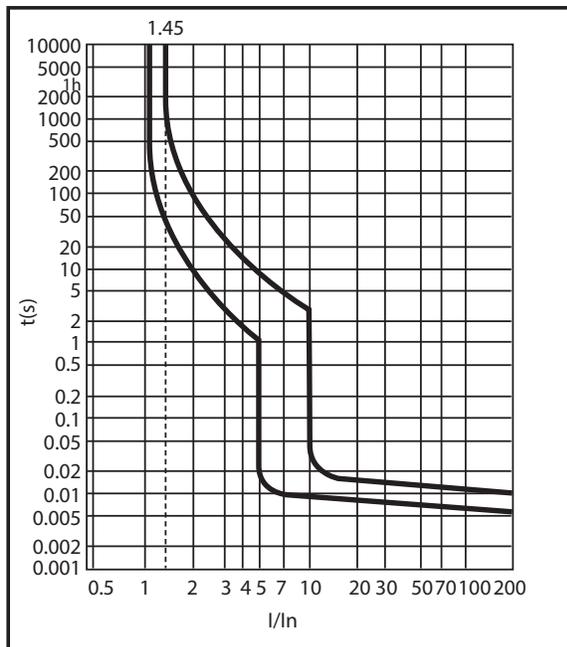
Mechanical life	20,000 cycles
Contact Position Indicator	Yes
Protection Degree	IP20
Reference Temperature	30°C
Operation Temperature Range	-35°C ~ +70°C (see table on page 3 for derating)
Terminal Connection Type	Copper/U-type busbar/Pin-type busbar
Maximum wire size	18-4 AWG (25 mm <sup>2</sup> )
Maximum busbar size	18-8 AWG (10 mm <sup>2</sup> )
Maximum tightening torque	22 In-lbs. (N*m 2.5)
Mounting	Vertical on DIN rail EN 60715 (35mm)
Connection	Line-in on top, line-out on bottom

## Temperature Derating

The maximum permissible current in a supplementary protector depends on the ambient temperature and spacing between devices (see next paragraph). Ambient temperature is the temperature inside the enclosure or switch-board in which circuit breaker is installed. The reference temperature for nominal current rating is 30°C.

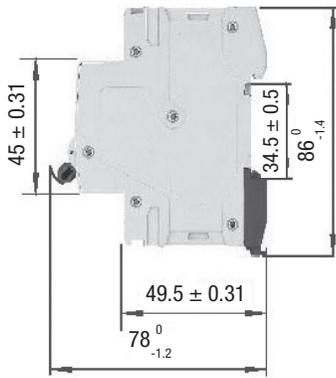
Ambient Temp >	-35°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
<b>Rated Current</b>												
1A	1.30	1.26	1.23	1.19	1.15	1.11	1.05	1.00	0.96	0.93	0.88	0.83
2A	2.60	2.52	2.46	2.38	2.28	2.20	2.08	2.00	1.92	1.86	1.76	1.66
3A	3.90	3.78	3.69	3.57	3.42	3.30	3.12	3.00	2.88	2.79	2.64	2.49
4A	5.20	5.04	4.92	4.76	4.56	4.40	4.16	4.00	3.84	3.76	3.52	3.32
6A	7.80	7.56	7.38	7.14	6.84	6.60	6.24	6.00	5.76	5.64	5.28	4.98
10A	13.20	12.76	12.50	12.00	11.50	11.10	10.60	10.00	9.60	9.30	8.90	8.40
16A	21.12	20.48	20.00	19.20	18.40	17.76	16.96	16.00	15.36	14.88	14.24	13.44
20A	26.40	25.60	25.00	24.00	23.00	22.20	21.20	20.00	19.20	18.60	17.80	16.80
25A	33.00	32.00	31.25	30.00	28.75	27.75	26.50	25.00	24.00	23.25	22.25	21.00
32A	42.56	40.96	40.00	38.72	37.12	35.52	33.92	32.00	30.72	29.76	28.16	26.88
40A	53.20	51.20	50.00	48.00	46.40	44.80	42.40	40.00	38.40	37.20	35.60	33.60
50A	67.00	65.50	63.00	60.50	58.00	56.00	53.00	50.00	48.00	46.50	44.00	41.50
63A	83.79	81.90	80.01	76.86	73.71	70.56	66.78	63.00	60.48	58.90	55.44	52.29

## Curve Profiles

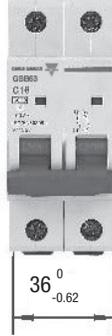


## Dimensions

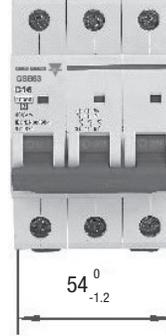
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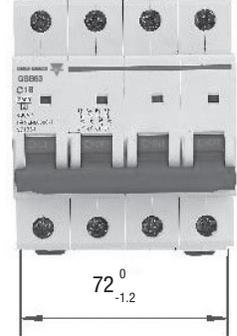
1P



1P+N, 2P



3P



3P+N, 4P

## Agency Approvals

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