

Miniature Circuit Breakers

MULTI 9™ C60N Supplementary Protectors

The Modular System (0.5 to 63 A)

The modular system (0.354 in. [9 mm] width for each module) provides the broadest range of DIN mounted protective devices available on the market, including circuit breakers, accessories, timers and ground-fault relays. Type C60 supplementary protectors can solve most problems in industrial or marine applications with continuous current ratings from 0.5 to 63 A, and interrupting ratings up to 480 Vac and 125 Vdc.

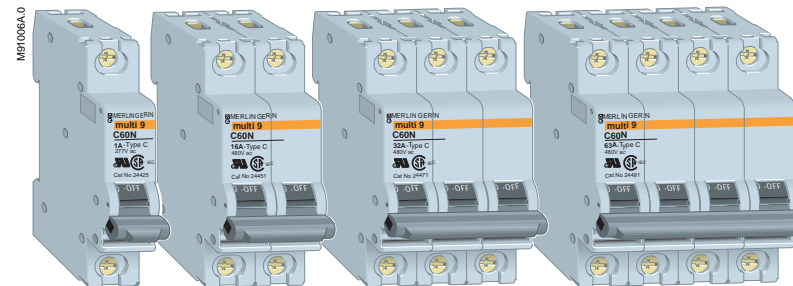
Current Limiting Capability

The advanced design of the MULTI 9™ supplementary protectors provides current limitation with far better protection than conventional circuit breakers. For example, on a 6 A rating with a prospective short circuit of 5000 A, the current will be limited at 350 A or 7%.

Compliance with Domestic and International Standards

In addition to IEC 947-2 and its associated standards (including VDE, BS, KEMA, etc.), type C60N supplementary protectors have been Recognized under UL 1077, (file E90509) and are Certified under CSA 22-2 (file LR 80849).

MULTI 9™ supplementary protectors have also been approved for use in offshore oil rigs and merchant or cruise ships by Bureau Vertas, Lloyd's Register of Shipping, American Bureau of Shipping, etc.



Thermal and Magnetic Protection

Bimetals are used to provide adequate overload protection and can withstand high inrush currents due to motor starting or other transients without nuisance tripping. Bimetals prevent the circuit breaker from reclosing before a cool-down time for the load. A high-speed magnetic trip device is used to provide short-circuit protection. Several tripping curves are available to match the level of protection needed and avoid nuisance tripping in various applications.

- Curve B magnetic trip between 3.2 and 4.8 x I_r for computers, electronic circuits and generator applications.

- Curve C trip between 7 and 10 x I_r for general purpose.

- Curve D trip between 10 and 14 x I_r for motors, transformers, etc.

Overload curves are adjusted for an ambient temperature of 25°C for C60N (UL-CSA).

Interrupting Ratings (RMS sym. kA)

UL 1077 Recognized, IEC 947-2 Rated

Rating (A)		C60 Ratings (A)			
		1-Pole	2-Pole	3-Pole	4-Pole
AC	240 V	10	10	10	10
	277 V	5	—	—	—
	480Y/277 V	—	5	5	5
DC	65 V	10	—	—	—
	125 V	—	10	—	—



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Field-installable Accessories

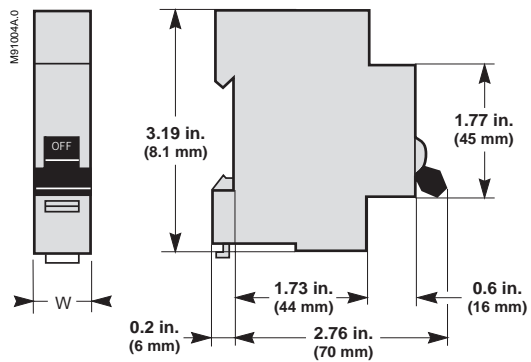
- Shunt trip (MX)
- Undervoltage release (MN)
- Auxiliary switch (OF)
- Alarm switch (SD)
- Ground-fault relays from 10 to 500 mA (not UL Listed)
- Motor operator

Other Field-installable Accessories

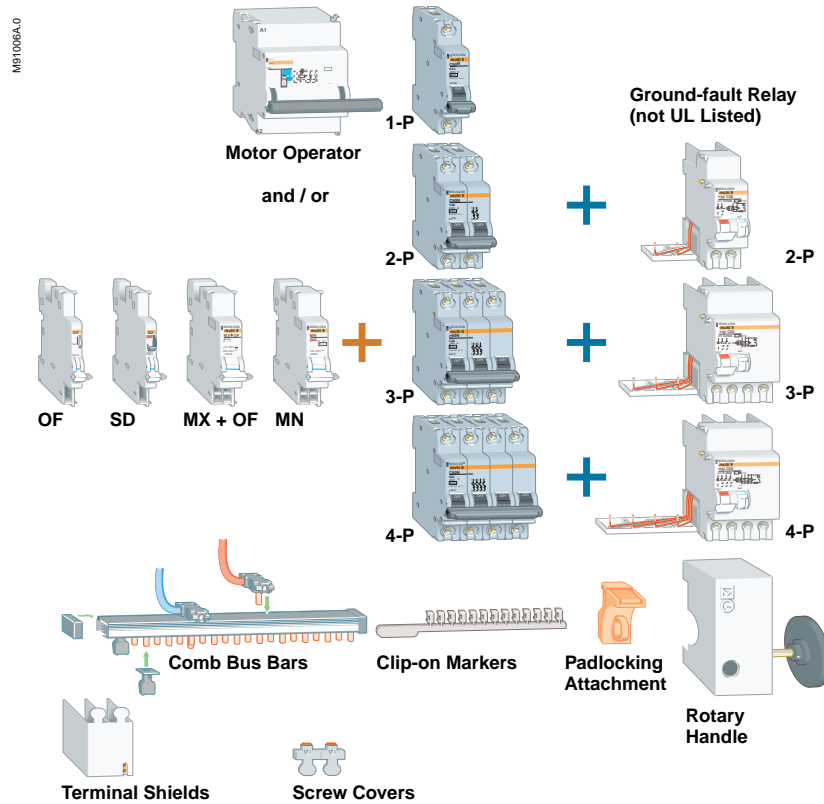
- Padlocking attachment
- Terminal shield (sealable)
- Interpole barriers
- Screw shield (sealable)
- Rotary handle
- Plug-in base
- Rear connection
- Screw connection
- Front mounting kit
- Comb bus bar
- Connector (comb bus bars)
- Label holders

Dimensions

Type	C60	
Width (W)	1-Pole	0.71 in (18 mm)
	2-Pole	1.42 in (36 mm)
	3-Pole	2.13 in (54 mm)
	4-Pole	2.48 in (72 mm)
	Aux. Switch	0.35 in (9 mm)
	MN and MX	0.71 in (18 mm)



C60N Supplementary Protectors



Weights

Type	C60	
1-Pole	3.85 oz. (110 g)	
2-Pole	7.70 oz. (220 g)	
3-Pole	11.55 oz. (330 g)	
4-Pole	15.40 oz. (440 g)	


Cable Range

Type	C60	
0.5–8 A	#4 AWG	
10–25 A	#4 AWG	
30–40 A	#2 AWG	
50–63 A	#2 AWG	

Screw-type connections or rear connections available upon request.

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