EN - For pricing and availability in your local country please visit one of the below links:

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FR - Pour connaître les tarifs et la disponibilité dans votre pays, cliquez sur l'un des liens suivants:

MG24427

EN
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DE
Dieses Datenblatt wird vom Hersteller bereitgestellt

FR
Cette fiche technique est présentée par le fabricant

MULTI 9™ System Catalog

Class 0860



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The MULTI 9™ modular system of miniature circuit breakers, accessories and installation equipment is the most complete offering in the world for this class of equipment. The MULTI 9 system of products is used worldwide and is available in more than 120 countries. All MULTI 9 miniature circuit breakers include line and load side box lug terminals (pressure plate type) suitable for use with multiple wires. Each MULTI 9 module is 0.35 in. (9 mm) wide and is designed to be mounted on a 1.38 in. (35 mm) DIN rail.

MULTI 9 supplementary protectors and miniature circuit breakers have current-limiting capability. The advanced design of the MULTI 9 system provides current limitation with far better protection than conventional circuit breakers. Faster electrical separation from a faulty component on the system can reduce damage.

Each C60N and NC100H miniature circuit breaker has an endurance of 20,000 operation cycles, voltage withstand of 6000 V impulse rating, and is suitable for reverse feeding.

Depending on the device ratings, terminals are available for use with wire up to #1 AWG (50 mm^2). Screw-type terminals are available as accessories.

Up to four accessories can be mounted on each supplementary protector or miniature circuit breaker. UL and CSA approved field-installable electrical auxiliaries for both C60N and NC100H supplementary protectors are: Shunt trip with auxiliary switch (MX+OF), auxiliary switch (OF), alarm switch (SD) and undervoltage release (MN).

Applications

MULTI 9™ products are intended for use as supplementary protectors to provide overcurrent protection within appliances or other electrical equipment where branch circuit overcurrent protection is already provided or is not required.

Potential applications include: computers, medical equipment, transformers, power supplies and many other types of electrical equipment.

UL Recognized Supplementary Protectors

	Trip Curves				Rating (A)	Max. Voltage (V)	Interrupting Rating at 480Y/277 Vac (kA)													Page
	B	C	D				3	4.5	5	6	7.5	10	15	20	25	36	40	50		
C60N	■	■	■		0.5–63	480Y/277 Vac														5
NC100H	■	■	■		10–80	480Y/277 Vac														12

As per UL 1077 and CSA 22.2 no. 235

IEC Rated Miniature Circuit Breakers

	Trip Curves						Rating (A)	Max. Voltage (V)	Interrupting Rating at 415 Vac (kA)											Page
	Z	B	C	D	K	MA			3	4.5	5	6	7.5	10	15	20	25	36	40	50	
DPN-N		■	■				1–40	230 Vac													19
C60N		■	■	■			0.5–63	440 Vac													20
C60H		■	■	■			0.5–63	440 Vac													20
C60L	■	■	■		■		0.5–25	440 Vac													20
C60L	■	■	■		■		32–40	440 Vac													20
C60L		■	■				50–63	440 Vac													20
C60L-MA						■	1.6–25	440 Vac													21
C60L-MA						■	40	440 Vac													21
C32H-DC			■				1–40	127 Vdc (1P)													34
C32H-DC			■				1–40	250 Vdc (2P)													34
NC100H		■	■	■			10–125	440 Vac													35
NC100LS		■	■	■			10–63	440 Vac													35
NC100LH		■	■				10–63	440 Vac													35

As per IEC 898
As per IEC 947-2

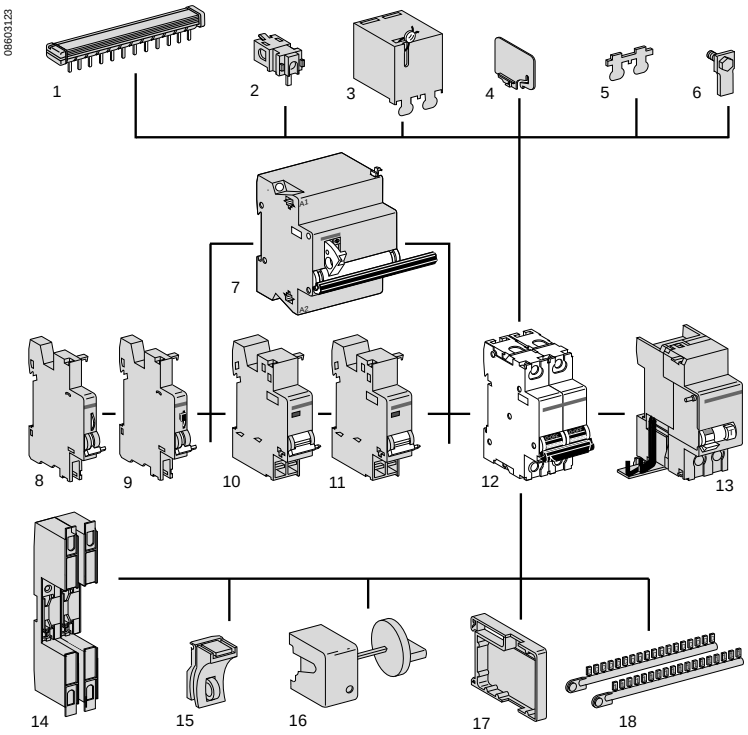
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Advantages

- **Panel Space Savings**—MULTI 9™ products are compact. Width per pole (each pole = two modules) is 0.71 in. (18 mm) for the C60N miniature circuit breaker or supplementary protector, and 1.06 in. (27 mm) for the NC100H miniature circuit breaker or supplementary protector.
- **Ease of Installation**—MULTI 9 products use a 1.38 in (35 mm) DIN-rail mounting system.
- **System Flexibility—**MULTI 9 supplementary protectors and miniature circuit breakers have a complete line of field-installable accessories.

1. Comb Bus Bar
2. Connector
3. Terminal Cover
4. Interphase Barrier
5. Terminal Screw Shield
6. Crimped Lug Connection
7. Motor Operator
8. Alarm Switch
9. Auxiliary Switch
10. Shunt Trip
11. Undervoltage Release
12. Circuit Breaker
13. Vigi Module
14. Plug-in Base
15. Padlock Attachment
16. Rotary Handle
17. Spacer
18. Identification System



- **Better Protection**—MULTI 9 supplementary protectors and miniature circuit breakers are current limiting, providing faster separation of the component from the fault, thereby reducing system damage.
- **Elimination of Nuisance Tripping**—MULTI 9 supplementary protectors and miniature circuit breakers have four trip characteristics from which to choose. They are available with different trip characteristics to provide greater flexibility in custom application to meet system needs. Overload curves are calibrated to an ambient temperature of 77°F (25°C) for type C60N and NC100H for both UL Recognition and CSA Certification.

  B Curve—Instantaneous magnetic trip between 3.2 and 4.8 x I_n (rated current) for computers and electronic and generator applications.

  C Curve—Instantaneous magnetic trip between 7 and 10 x I_n (rated current) for general purpose applications.

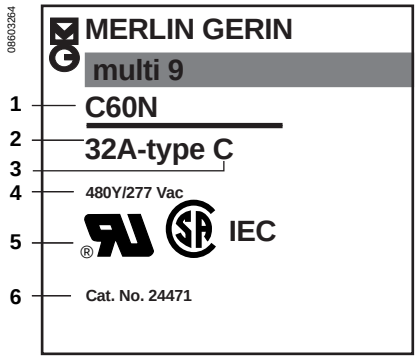
  D Curve—Instantaneous magnetic trip between 10 and 14 x I_n (rated current) for motors, transformers, and similar applications.

  MA Curve—Instantaneous magnetic only trip at 12 x I_n (rated current) for motor circuit protection. IEC Rated; not UL Recognized.

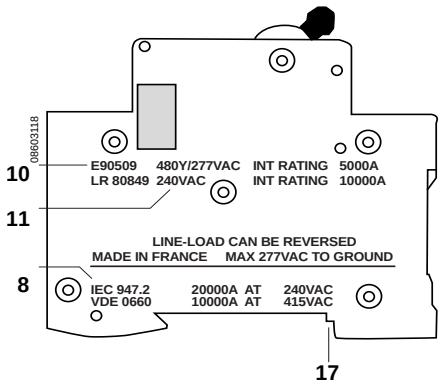
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UL Recognized Supplementary Protectors

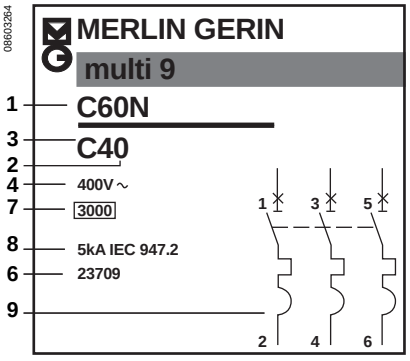


Face Markings

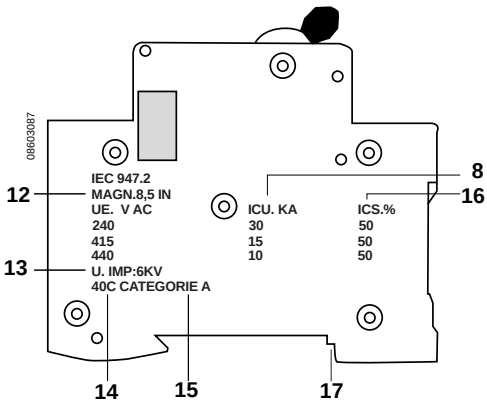


Side Markings

IEC Rated Miniature Circuit Breakers



Face Markings



Side Markings

1. Supplementary Protector or Circuit Breaker Type
2. Ampere Rating
3. Trip Curve
4. Voltage
5. Standards Marks
6. Catalog Number
7. Interrupting Ratings (I_{cn}) as per IEC 898
8. Interrupting Ratings (I_{cu}) as per IEC 947-2
9. Symbol of IEC Rated Circuit Breakers
10. UL and CSA File Numbers
11. Interrupting Ratings as per UL 1077
12. Magnetic Settings
13. Impulse Voltage
14. Temperature of Reference
15. Category as per IEC 947-2 (A means that the circuit breaker is not intended to offer a short-time withstand)
16. Interrupting Rating (I_{cs}) as per IEC 947-2
17. CE Mark on Bottom of Circuit Breaker

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Standard Features

- Fast closing: Allows increased withstand to the high inrush currents of some loads
- Trip-free mechanism: Contacts cannot be held in the on position when the supplementary protector is tripped automatically
- Isolation with positive break indication—Green strip on the circuit breaker operating handle indicates that all poles open
- Number of operating cycles (O–C): 20,000
- Tropicalization: Treatment 2 (relative humidity: 95% at 131°F/55°C).
- Degree of Protection:
  - Case: IP40 as per IEC 529
  - Terminals: IP20
- Temperature:
  - Operation: 23 to 140°F (–5 to 60°C)
  - Storage: –40 to 212°F (–40 to 100°C)

Interrupting Ratings

Rating (A) 77°F/25°C	Number of Poles	Voltage (Vac/Vdc)	Interrupting Rating (A)	
			UL 1077	IEC 947-2
0.5–63	1P	240 Vac	10,000	10,000
	2P/3P/4P	240 Vac	10,000	20,000
	1P	277 Vac	5,000	—
		415 Vac	—	3,000 (1)
	2P/3P/4P	415 Vac	—	10,000
		440 Vac	—	6,000
		480Y/277 Vac	5,000	—
	1P	65 Vdc	10,000	10,000
	2P	125 Vdc	10,000	10,000

(1) Single-pole interrupting rating for IT type European grounding system (Insulated neutral—double fault).

Compliance with Standards

- UL 1077 Supplementary Protectors File #E90509
- CSA C22.2 No. 235-M89 Supplementary Protectors File #LR80849
- IEC 947-2, VDE 0660
- CE Marked

Time-Current Curves

B Curve—Overcurrent protection for sensitive equipment (computers, electronic devices etc.):
- Ratings: 1–63 A set at 77°F (25°C)
- Tripping curve: The magnetic release operates between 3.2 and 4.8 times ampere rating

C Curve—Overcurrent protection for all application types:
- Ratings: 0.5–63 A set at 77°F (25°C)
- Tripping curve: The magnetic releases operates between 7 and 10 times ampere rating

D Curve—Overcurrent protection for loads with high inrush currents (motors, transformers etc.):
- Ratings: 1–63 A set at 77°F (25°C)
- Tripping curve: The magnetic releases operates between 10 and 14 times ampere rating

Weight (oz./g)

Type	1P	2P	3P	4P
C60N	3.88/110	7.75 /220	11.64/330	15.52/440

Connection

- 0.5–25 A: (#18–#4 AWG) 1–25 mm^2 cables
- 30–63 A: (#18–#2 AWG) 1–35 mm^2 cables

Ground-fault Protection

- IEC Rated; not UL Recognized (see page 25)

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B Curve—C60N Supplementary Protectors

Rating (A)	1P	2P	3P	4P
	2 Modules	4 Modules	6 Modules	8 Modules
1	MG24110	MG24125	MG24140	MG24155
1.2	MG17402	MG17432	—	—
1.5	MG17403	MG17433	—	—
2	MG24111	MG24126	MG24141	MG24156
3	MG24112	MG24127	MG24142	MG24157
4	MG24113	MG24128	MG24143	MG24158
5	MG17404	MG17434	—	—
6	MG24114	MG24129	MG24144	MG24159
7	MG17405	MG17435	—	—
8	MG24115	MG24130	MG24145	MG24160
10	MG24116	MG24131	MG24146	MG24161
13	MG24117	MG24132	MG24147	MG24162

Rating (A)	1P	2P	3P	4P
	2 Modules	4 Modules	6 Modules	8 Modules
15	MG17406	MG17436	MG17461	—
16	MG24118	MG24133	MG24148	MG24163
20	MG24119	MG24134	MG24149	MG24164
25	MG24120	MG24135	MG24150	MG24165
30	MG17407	MG17437	MG17462	—
32	MG24121	MG24136	MG24151	MG24166
35	MG17408	MG17438	MG17463	—
40	MG24122	MG24137	MG24152	MG24167
50	MG24123	MG24138	MG24153	MG24168
60	MG17409	MG17439	MG17464	—
63	MG24124	MG24139	MG24154	MG24169

C Curve—C60N Supplementary Protectors

Rating (A)	1P	2P	3P	4P
	2 Modules	4 Modules	6 Modules	8 Modules
0.5	MG17411	—	—	—
1	MG24425	MG24442	MG24459	MG24476
1.2	MG17412	MG17442	—	—
1.5	MG17413	MG17443	—	—
2	MG24426	MG24443	MG24460	MG24477
3	MG24427	MG24444	MG24461	MG24478
4	MG24428	MG24445	MG24462	MG24479
5	MG17414	MG17444	—	—
6	MG24430	MG24447	MG24464	MG24481
7	MG17415	MG17445	—	—
8	MG24431	MG24448	MG24465	MG24482
10	MG24432	MG24449	MG24466	MG24483

Rating (A)	1P	2P	3P	4P
	2 Modules	4 Modules	6 Modules	8 Modules
13	MG24433	MG24450	MG24467	MG24484
15	MG17416	MG17446	MG17466	—
16	MG24434	MG24451	MG24468	MG24485
20	MG24435	MG24452	MG24469	MG24486
25	MG24436	MG24453	MG24470	MG24487
30	MG17417	MG17447	MG17467	—
32	MG24437	MG24454	MG24471	MG24488
35	MG17418	MG17448	MG17468	—
40	MG24438	MG24455	MG24472	MG24489
50	MG24439	MG24456	MG24473	MG24490
60	MG17419	MG17449	MG17469	—
63	MG24440	MG24457	MG24474	MG24491

D Curve—C60N Supplementary Protectors

Rating (A)	1P	2P	3P	4P
	2 Modules	4 Modules	6 Modules	8 Modules
0.5	MG17421	—	—	—
1	MG24500	MG24516	MG24532	MG24548
1.2	MG17422	MG17452	—	—
1.5	MG17423	MG17453	—	—
2	MG24501	MG24517	MG24533	MG24549
3	MG24502	MG24518	MG24534	MG24550
4	MG24503	MG24519	MG24535	MG24551
5	MG17424	MG17454	—	—
6	MG24504	MG24520	MG24536	MG24552
7	MG17425	MG17455	—	—
8	MG24505	MG24521	MG24537	MG24553
10	MG24506	MG24522	MG24538	MG24554

Rating (A)	1P	2P	3P	4P
	2 Modules	4 Modules	6 Modules	8 Modules
13	MG24507	MG24523	MG24539	MG24555
15	MG17426	MG17456	MG17471	—
16	MG24508	MG24524	MG24540	MG24556
20	MG24509	MG24525	MG24541	MG24557
25	MG24510	MG24526	MG24542	MG24558
30	MG17427	MG17457	MG17472	—
32	MG24511	MG24527	MG24543	MG24559
35	MG17428	MG17458	MG17473	—
40	MG24512	MG24528	MG24544	MG24560
50	MG24513	MG24529	MG24545	MG24561
60	MG17429	MG17459	MG17474	—
63	MG24514	MG24530	MG24546	MG24562

NOTE: Width of one module = 0.354 in. (9 mm).



1P



2P



3P



4P

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Remote Tripping

Remote tripping is possible by means of an MX shunt trip or MN undervoltage release. A tripped supplementary protector is indicated by a red indicator flag on the front panel.

- ■ MX + OF shunt trip—When energized, trips the associated supplementary protector
- □ Equipped with a cut-off switch
- □ Equipped with an O + F switch that indicates the "open" or "closed" position of the supplementary protector
- ■ MN undervoltage release—When the voltage drops to 70–35% of the supply voltage, the associated supplementary protector trips and is prevented from reclosing until the supply voltage is restored
- □ Complies with UL, CSA and IEC Standards
- □ Uses emergency stop via push button
- □ Uses safety feature on circuit supplying several machines preventing uncontrolled restarting of the motors
- ■ MN Ⓢ time-delayed undervoltage release:
- □ Undervoltage release which controls the opening of the associated supplementary protector
- □ Allows a 0.5 second time delay on a short-supply interruption of voltage drop
- □ IEC Rated; not UL Recognized

Power consumption of MX and MN Accessories

Type	Voltage	VA or W
MX (inrush)	415 Vac (IEC)	120
	220–240 Vac	50
	48–130 Vac	200
	110–130 Vdc	10
	48 Vac/Vdc	22
	24 Vac/Vdc	120
MN (holding)	220–240 Vac	4.1
	48 Vac	4.3
	48 Vdc	2.0
MN Ⓢ (holding)	220–240 Vac	4.1

Remote Indication

- ■ OF Auxiliary Switch—Indicates the "open" or "closed" position of the circuit breaker
- ■ SD Alarm Switch—Indicates the "tripped-on-fault" position of the circuit breaker with a red indicator flag on the front panel
- ■ Operation—Test button on the front panel of the OF auxiliary and SD alarm switches allows simulation of the OF and SD functions without operating the circuit breaker

Electrical Ratings

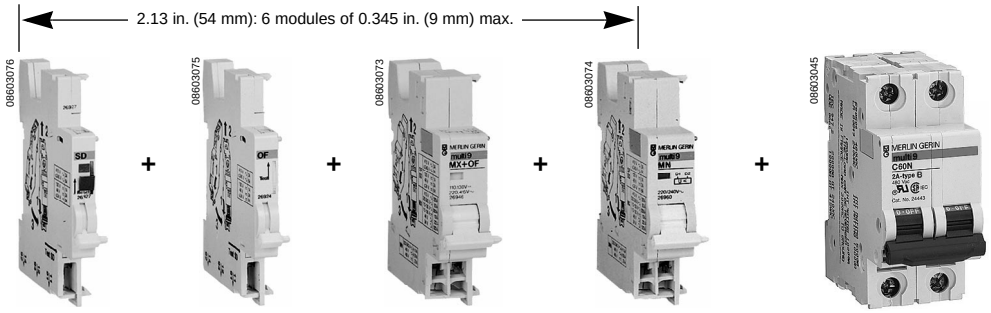
Voltage	Breaking Capacity (A)
277 Vac	3
≤ 240 Vac	6
130 Vdc	1
≤ 48 Vdc	2
≤ 24 Vdc	6

Connection

- ■ Terminal pads for two #16 AWG (1.5 mm^2) cables, or
- ■ Terminal pads for one #14 AWG (2.5 mm^2) cable

Possible Accessory Combinations

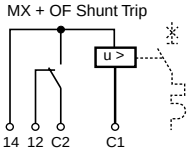
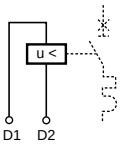
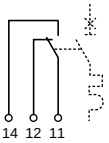
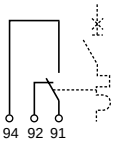
Accessories are mounted to the left of the circuit breaker for a total width of 2.13 in. (54 mm) max.



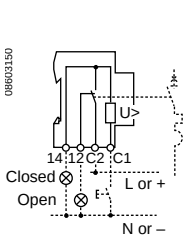
SD Alarm Switch + **OF Auxiliary Switch** + **MX + OF Shunt Trip and Auxiliary Switch** + **MN Undervoltage Release** + **C60 Supplementary Protector**

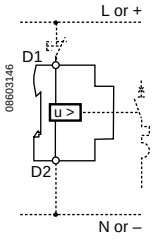
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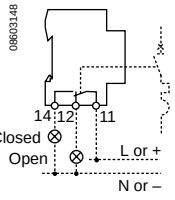
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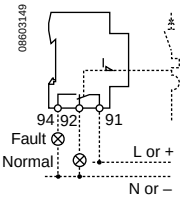
Type		Control Voltage		Width in Modules	Cat. No.	
		Vac	Vdc		UL/IEC	IEC
MX + OF Shunt Trip		24	24	2	MG26974	26948
		48–130	48	2	MG26973	26947
		220–277	110–130	2	MG26972	—
		220–415	110–130	2	—	26946
MN Undervoltage Release	Instantaneous	48	—	2	MG26965	26961
		120	—	2	MG26967	—
		220–240	—	2	MG26964	26960
		—	24	2	MG26968	—
		—	48	2	MG26966	26962
	Time-delayed	220–240	—	4	—	26963
OF Auxiliary Switch				1	MG26925	26924
						
SD Alarm Switch				1	MG26928	26927
						

NOTE: Width of one module = 0.345 in. (9 mm).











MX + OF Shunt Trip and Auxiliary Switch



MN Undervoltage Release



OF Auxiliary Switch



SD Alarm Switch

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Rotary Handle

- ■ Front or lateral operation of C60 2P, 3P and 4P circuit breaker versions
- ■ Degree of protection:
  - □ IP54 as per IEC 529 (see page 83)
  - □ NEMA12 and 3R
- ■ IEC Rated; not UL Recognized
- ■ Installation:
  - □ On door or hinged panel for draw-out rotary handle Cat. No. MG27047
  - □ On fixed front or side panel with fixed rotary handle Cat. No. MG27048
- ■ A complete rotary handle is made up of a circuit breaker operating subassembly and a handle

Description	Cat. No.
Circuit breaker operating subassembly (fixed to circuit breaker)	MG27046
Draw-out extended handle (mounted on door or hinged panel)	MG27047
Fixed handle front or lateral (mounted on fixed panel)	MG27048

Front Mounting Kit

- ■ UL Recognized
- ■ To be used on 1P, 2P, 3P and 4P devices
- ■ Option: Can be used with Cat. No. MG26981 terminal screw shields for extra clearance on 480 V applications

Front Mounting Kit	Cat. No.
Bracket for 1P	MG26983
Bracket for 2P	MG26984
Bracket for 3P	MG26985
Bracket for 4P	MG26989

Multiple-pole Front Mounting Kit

Consists of a transparent, hinged, weatherproof cover with DIN rail. Allows installation of 20 modules of MULTI 9 circuit breakers.

- ■ Degree of protection as per IEC 529: IP55
- ■ Dimensions:
  - □ Overall: 4.96 x 9.25 x 1.30 in. (126 x 235 x 33 mm)
  - □ Cutout: 3.78 x 7.32 in. (96 x 186 mm)
- ■ IEC Rated; not UL Recognized

Multiple-pole Front Mounting Kit	Cat. No.
Hinged transparent cover (includes a ten module divisible blanking plate and a mounting template).	14210
DIN-rail support	14211

Spacer

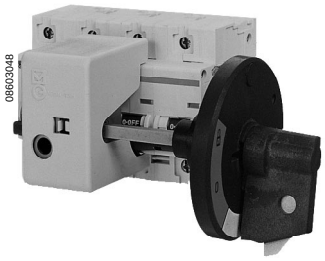
- ■ Clips on DIN rail
- ■ Provides a ventilation gap to prevent overheating
- ■ Provides space for future circuit breakers
- ■ IEC Rated; not UL Recognized

Description	Cat. No.
Width = 0.354 in. (9 mm)	MG27062

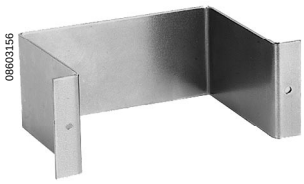
Identification System

- ■ Marking symbols can be used on each of the poles of all C60 supplementary protectors
- ■ The following symbols are available: Blank, 0–9, +, – and A–Z
- ■ IEC Rated; not UL Recognized

Identification System	Cat. No.
(Bag of ten)	MG27150



Rotary Handle



Front Mounting Kit



Multi-pole Front Mounting Kit



Spacer



Identification System

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Terminal Cover

- Completely covers terminals
- Enables rear connection
- Includes a sealing device
- IEC Rated; not UL Recognized

Type	Cat. No.
1P	MG26975
2P	MG26976
3P	MG26975 + MG26976
4P	MG26978

Plug-in Base

- For no-load isolation of a circuit protected by a miniature circuit breaker, with locking in “disconnected” position by 0.315 in. (8 mm) diameter padlocks (not supplied)
- IEC Rated; not UL Recognized

Description	Cat. No.
For 1P C60 supplementary protector (minimum center spacing of 7.87 in. [200 mm] between two rows).	MG26996

Screw-type Connection

- Enables front or rear connection with cable lugs
- Screw diameter 0.2 in (5 mm)
- The mounting of interpole barrier (Cat. No. MG27001) is recommended
- Also suitable for use on NC100H supplementary protectors
- IEC Rated; not UL Recognized

Description	Cat. No.
Screw-type connector (eight pieces)	MG27053

Interphase Barriers

- Increases insulation distance between two connectors
- IEC Rated; not UL Recognized

Description	Cat. No.
Interphase barriers (ten pieces)	MG27001

Terminal Screw Shield

- Enables total insulation of the terminal screws on 1P, 2P, 3P and 4P C60 circuit breakers
- IEC Rated; not UL Recognized

Description	Cat. No.
For C60 supplementary protector (bag of two)	MG26981

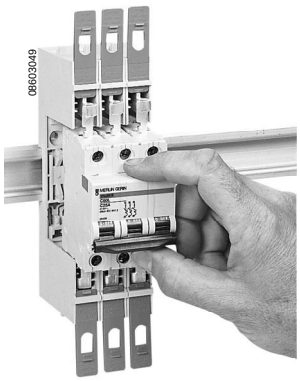
Padlocking Attachment

- This device may be used to lock the circuit breaker in “on” or “off” position by 0.315 in. (8 mm) diameter padlocks (not supplied). The front plate or functional door can be opened with the circuit breaker locked in “off” position.
- Due to the trip-free mechanism, padlocking in the “on” position will not prevent the supplementary protector from tripping under overcurrent or ground-fault conditions.
- IEC Rated; not UL Recognized

Description	Cat. No.
For C60 supplementary protector (bag of two)	MG26970



Terminal Cover



Plug-in Base



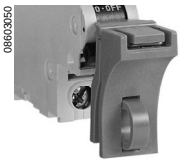
Interphase Barriers



Screw-type Connection



Terminal Screw Shield



Padlock Attachment

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MSC Mounting Base

■ IEC Rated; not UL Recognized (see page 33)

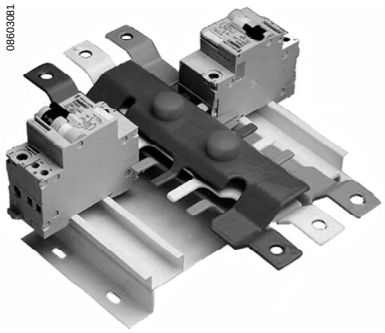
Comb Bus Bars

■ Rated insulation voltage: 480 Vac
■ Rated current: 200 A
■ Available in 1-, 2-, 3- and 4-phase
■ Distance between outgoing poles: 0.71 in. (18 mm)

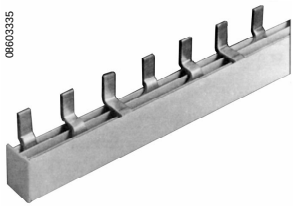
Type		Cat. No.
12 poles	1-phase	MG10285
	2-phase	MG10286
	3-phase	MG10287
	4-phase	MG10288
3.28 ft. (1 meter) (57 poles)	1-phase	MG10289
	2-phase	MG10290
	3-phase	MG10291
	4-phase	MG10292

Connector and Caps

Type	Cat. No.
Connector #2 AWG (35 mm^2)	MG10307
Extra end caps (40 pieces)	MG10305
Tooth caps (40 pieces)	MG10306



MSC Mounting Base



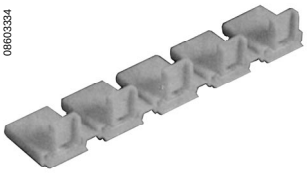
Comb Bus Bar



Connector



End Cap

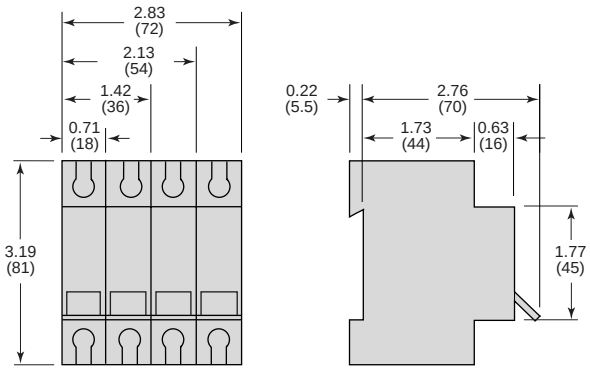


Tooth Cap

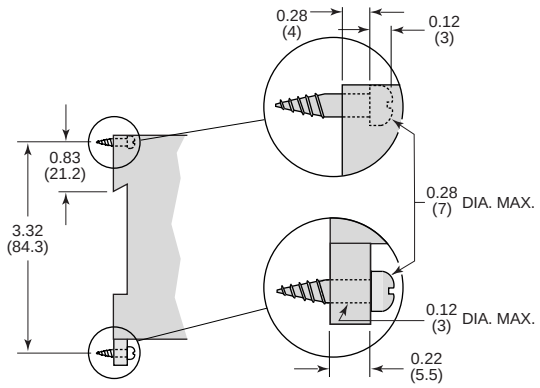
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C60 Supplementary Protectors and Circuit Breakers

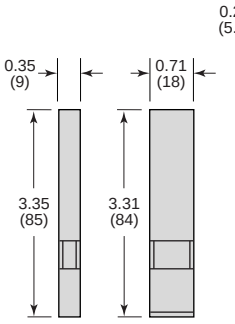


1, 2, 3 and 4-Pole

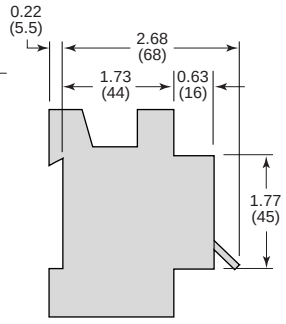


Surface Mounting

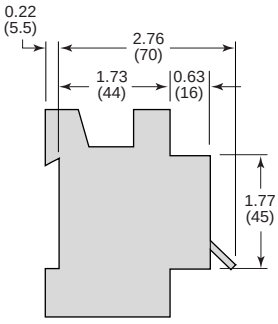
Accessories



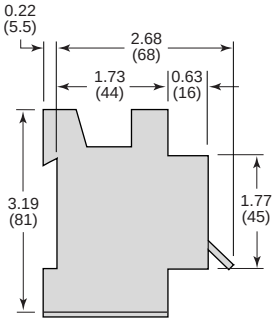
OF, SD **MX, MN**



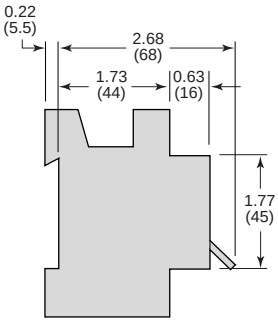
OF Auxiliary Switch



SD Alarm Switch

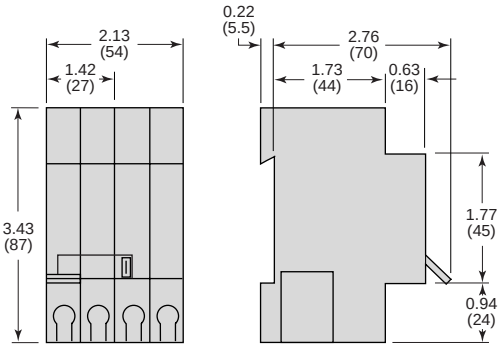


MX Shunt Trip

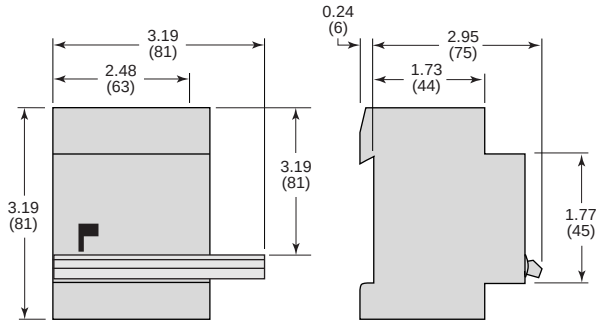


MN Undervoltage Release

Vigi Ground-fault Modules



Tm Motor Operator

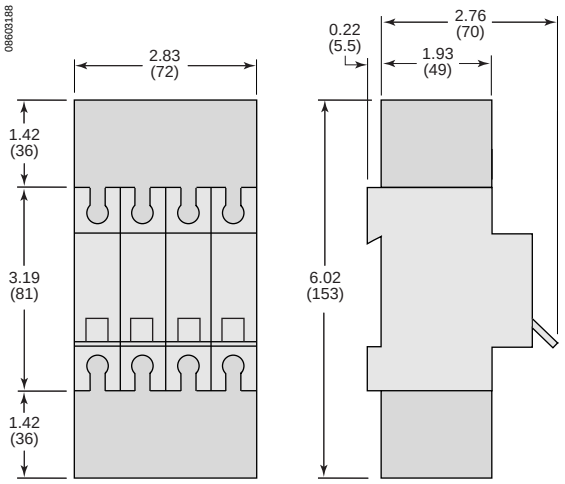


Dimensions: in. (mm)

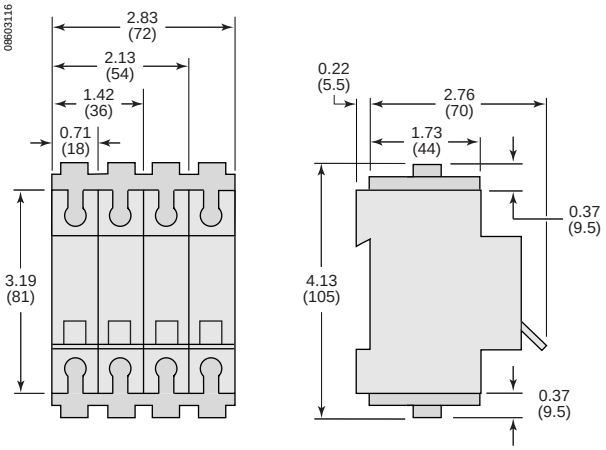
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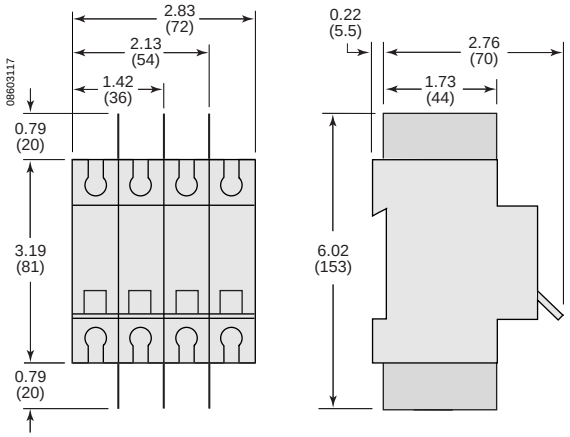
C60 Terminal Cover



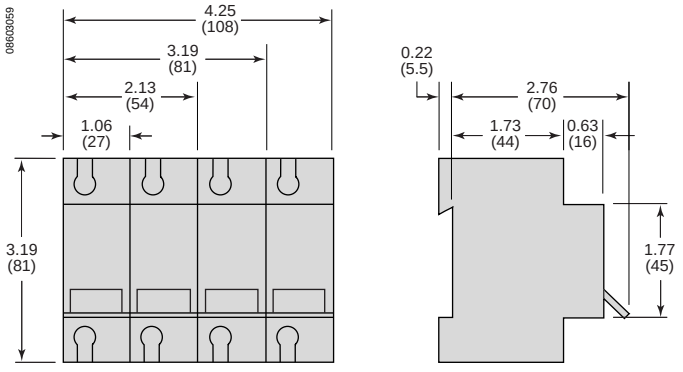
C60 Terminal Screw Shield



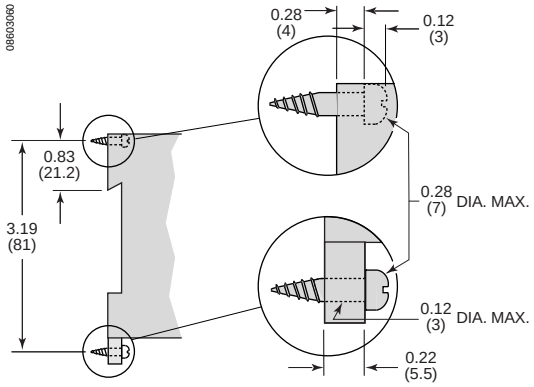
C60 Interphase Barriers



NC100 and NC125 Supplementary Protectors and Circuit Breakers



1P/2P/3P/4P



Surface Mounted

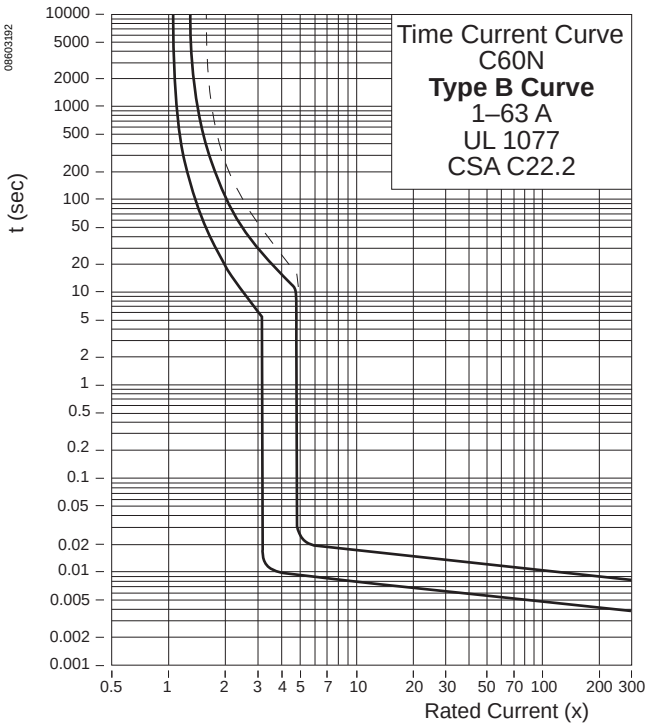
Dimensions: in. (mm)

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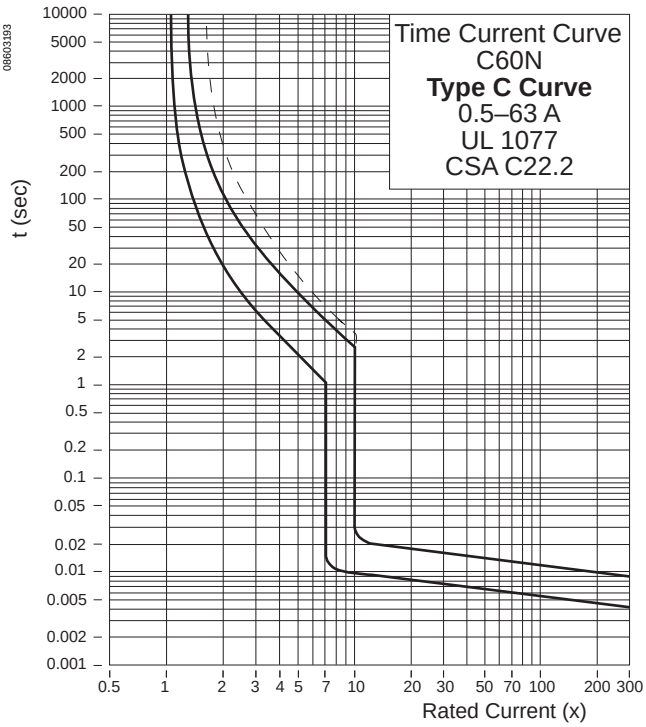
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Time/Current Curves

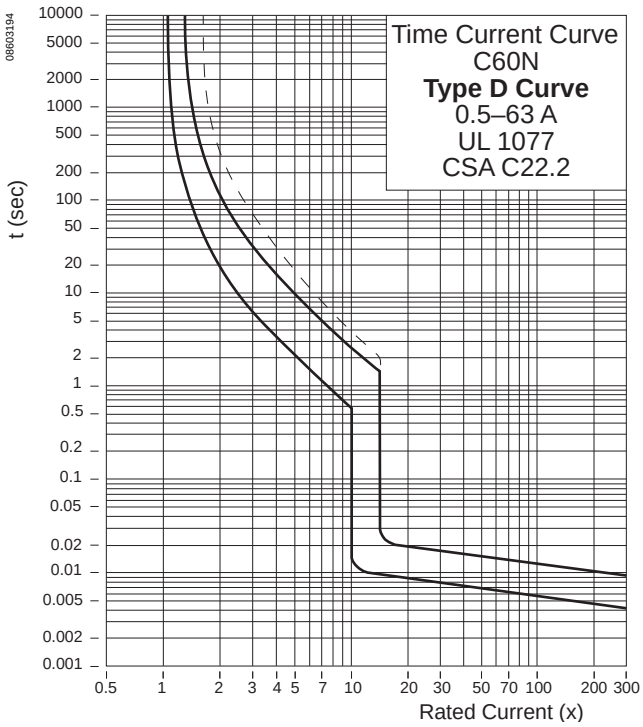
C60N—UL Recognized—B Curve (1–63 A)



C60N—UL Recognized—C Curve (0.5–63 A)



C60N—UL Recognized—D Curve (0.5–63 A)



NOTE: Dotted line is the tripping limit of a single pole of a multi-pole device.

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MG24427

EN
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DE
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Cette fiche technique est présentée par le fabricant