## 24973 Circuit Breaker

MINIATURE CIRCUIT BREAKER , 440VAC, 10A, CIRCUIT BREAKER TYPE: STANDARD

Image not available

- Product Information


## Features and Specifications

Approvals: IEC 60947-2 Rated
Circuit Breaker Type: Standard
Catalog Reference Number: 0860CT0201
Enclosure Rating: IP40
For Use With: OEM Panels and Equipment
General Application: Short circuit and overload protection
Marketing Trade Name: Multi 9
Ampere Rating: 10A
Voltage Rating: 440VAC
Mounting Type: DIN Rail (35mm)
Weight: 4.23 Ounces
Number of Poles: 1-Pole
Short Circuit Current Rating: 30kA@130VAC - 15kA@240VAC - 4kA@415VAC
Type: C 60 H
Trip Curve: C Curve - Magnetic operates between 5 to 10 times
Wire Size: \#18 to \#4 AWG
Height: 3.19 Inches (18mm)
Width: 0.71 Inches (18mm)
Depth: 3.00 Inches ( 76 mm )

Ordering and Shipping Information

- Category 01078 -

Miscellaneous Items, Discount DE2, Circuit Breakers

- Discount Schedule DE2
- Article Number 785901182306
- Package Qty 1
- Weight (lbs.) 0.25
- Availability Code F
- Returnability N


## Section 1-Introduction

## Multi $9^{\text {TM }}$ Products for Equipment Applications

The Multi 9 modular system of miniature circuit breakers and supplementary protectors, accessories, and peripherals provides complete protection of equipment or especially sensitive circuits within the equipment. Installation labor and space are both minimized by the modular architecture of the Multi 9 system, whether a single protective device or multiple devices with their accessories are being used.

Schneider Electric offers an extensive line of UL 489 Circuit Breakers and UL 1077 Supplementary Protectors. In addition, a variety of IEC certified Circuit Breakers and Accessories are available for OEM's whose products are destined for export beyond North America. To an OEM, this means that one family of electrical protection products can be used regardless of equipment destination.

The Standards include:

- UL 489 Standard for Circuit Breakers
- UL 489A Standard for DC Communication Applications
- UL 1077 Standard for Supplementary Protectors
- UL 1053 Ground Fault Sensing and Relaying Equipment 2: Circuit-breakers
- CSA C22.2 No. 5 Standard for Circuit Breakers
- CSA C22.2 No. 235 Supplementary Protectors
- CCC Pending 4Q2007
- C60 Miniature Circuit Breakers are RoHS Compliant

Potential applications include semi-conductor machines, communication equipment, process control panels, computers, medical equipment, electronic controls, transformers, power supplies, and other electrical equipment.

## System Flexibility

The Multi 9 System includes an extensive line of field-installable accessories. Plug-on electrical auxiliaries include shunt trip, undervoltage release, auxiliary switch, and alarm switch. Other protection devices include residual current devices, dc circuit breakers, and switches. Control and display devices include signal lamps, push buttons, and motor operators. There are also mechanical accessories for locking, operating, shielding, mounting, etc. The following diagram shows many of the Multi 9 system accessories.

Figure 1: Functional Diagram of Multi 9 System


## Advantages

Multi 9 C60 circuit breakers and supplementary protectors provide several features which are important to OEMs. These include:

- Small, compact size
- Easy installation on DIN rails
- Limits let-thru current
- Resetability, more convenient than fuses
- Electrical auxiliaries for control and status information
- Extensive variety of accessories

Figure 2: UL 489 Listed Multi 9 C60 Circuit Breakers


Better Protection-Multi 9 supplementary protectors and miniature circuit breakers limit let-through current, providing faster separation of the component from the fault, thereby reducing system damage.

More Selection-More ratings compatible with low-power electronic circuits are available in the range from 0.5 to 10 A . Others are provided in convenient steps, up to 63 A for the C 60 products.

Reduction of Nuisance Tripping-Available with different trip characteristics to meet system needs: $B, C$ and $D$ curves, depending on the model.

Panel Space Savings-Multi 9 products are compact. Width per pole is only 0.71 in . ( 18 mm ) for the C60 circuit breaker. All of the products are built in a consistent format with incremental widths of 0.35 in. ( 9 mm ) (therefore the name Multi 9).

Easy Installation-The Multi 9 products mount easily onto a 35 mm DIN mounting rail. Large box lug terminals (pressure plate type) are suitable for use with copper wiring up to 2 AWG for C60 circuit breakers and supplemental protectors.
Reverse Feeding-Reverse feeding of line power is permitted.
Reliability—Each C60 miniature circuit breaker has an endurance of 10,000 operation cycles and voltage withstand of 6000 V impulse rating.
World-Wide Availability-The Multi 9 products are available and supported throughout the world by Schneider Electric.

From the Power Distribution Specialists-Schneider Electric can be your single source of protection equipment, with a comprehensive line of products for OEM products or the factory. In addition to the Multi 9 circuit breakers and supplementary protectors, these products include the following:

- QO $^{\circledR}$ and QOU Miniature Circuit Breakers 10-125 A
- Compact ${ }^{\circledR}$ Molded Case Circuit Breakers 15-3200 A
- Powerpact ${ }^{\circledR}$ Electronic Trip Circuit Breakers 250-2500 A
- Masterpact ${ }^{\circledR}$ Universal Power Circuit Breakers 250-6300 A


## Section 3—IEC 60947-2 Rated Protection Devices

## Section 3—IEC 60947-2 Rated Protection Devices

The Multi 9 system includes several families of miniature circuit protection devices that have the IEC ratings that are applicable in many countries other than the United States. These products are summarized below and discussed in more detail in the following pages. UL Listed and UL Recognized protection devices are described in Section 2, while accessories for both UL Listed and IEC Certified products are described in Section 5.

Table 15: Specifications for IEC Rated Miniature Circuit Breakers

| Ratings per IEC 60947-2 |  | DPN-N | C60N |  | C60H |  | C60L |  |  |  | $\begin{aligned} & \mathrm{C} 120 \mathrm{H}, \\ & \mathrm{NC} 125 \mathrm{H} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of Poles |  | $1(\varnothing+N)$ | 1 | 2, 3, 4 | 1 | 2, 3, 4 | 1 |  | 2, 3, 4 |  | 1 | 2, 3, 4 |
| Rated Current $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ | $I_{n}$ | 1-40 A | 0.5-63 A | 0.5-63 A | 0.5-63 A | 0.5-63 A | 0.5-63 A | 0.5-25 A | 32-40 A | 50-63 A | - | - |
| Rated Current (A) $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ | $I_{n}$ | - | - | - | - | - | - |  |  | - | 10-125 | 10-125 |
| Rated Voltage | $\mathrm{U}_{\mathrm{e}}$ | 230 V | 440 V | 440 V | 440 V | 440 V | 440 V | 440 V | 440 V | 440 V | 440 V | 440 V |
| Ultimate Breaking Capacity <br> ( $\mathrm{I}_{\text {cu }}$ ) as per IEC 60947-2 <br> Standard | 130 Vac <br> 230-240 Vac <br> 400-415 Vac <br> 440 Vac | $\begin{gathered} 7.5 \mathrm{kA} \\ 2^{1} \mathrm{kA} \end{gathered}$ | $\begin{gathered} - \\ 10 \mathrm{kA} \\ 3^{1} \mathrm{kA} \end{gathered}$ | $\begin{gathered} \text { - } \\ 20 \mathrm{kA} \\ 10 \mathrm{kA} \\ 6 \mathrm{kA} \end{gathered}$ | $\begin{aligned} & \hline 30 \mathrm{kA} \\ & 15 \mathrm{kA} \\ & 4^{1} \mathrm{kA} \end{aligned}$ - | $\begin{aligned} & 30 \mathrm{kA} \\ & 15 \mathrm{kA} \\ & 10 \mathrm{kA} \end{aligned}$ | $\begin{aligned} & 25 \mathrm{kA} \\ & 6^{1} \mathrm{kA} \end{aligned}$ | 50 kA <br> 25 kA <br> 20 kA | $\begin{aligned} & 40 \mathrm{kA} \\ & 20 \mathrm{kA} \\ & 15 \mathrm{kA} \end{aligned}$ | $\begin{gathered} \text { - } \\ 30 \mathrm{kA} \\ 15 \mathrm{kA} \\ 10 \mathrm{kA} \end{gathered}$ | 30 kA <br> 15 kA <br> $4^{1} \mathrm{kA}$ <br> - | 30 kA <br> 15 kA <br> 10 kA |
|  | 1P 60 Vdc <br> 2P 125 Vdc |  | $15 \mathrm{kA}$ | $\begin{gathered} - \\ 2 \mathrm{P} 20 \mathrm{kA} \\ 3 \mathrm{P} 30 \mathrm{kA} \\ \hline \end{gathered}$ | $20 \mathrm{kA}$ | $\begin{gathered} - \\ 2 \mathrm{P} 25 \mathrm{kA} \\ 3 \mathrm{P} 40 \mathrm{kA} \end{gathered}$ | $25 \mathrm{kA}$ |  |  |  | $\begin{aligned} & - \\ & - \\ & - \end{aligned}$ | $\begin{aligned} & - \\ & - \\ & - \end{aligned}$ |
|  | 3P 250 Vdc | - | - | 4P 40 kA | - | 4P 50 kA | - |  | 4P60 kA |  | - | - |
| Service Breaking Capacity | $\mathrm{I}_{\mathrm{cs}}\left(\% \mathrm{l}_{\mathrm{cu}}\right)$ | 50\% | 75\% | 75\% | 50\% | 50\% | 50\% |  |  | - | 75\% | 75\% |
| Magnetic Trip Curves | B Curve <br> C Curve <br> D Curve <br> K Curve <br> MA Curve <br> Z Curve | $3-5$ $7-10$ - - - - | $\begin{array}{r}7- \\ 10 \\ \hline\end{array}$ | -5 10 -14 - - | $\begin{array}{r}3- \\ 7-10 \\ 10 \\ - \\ \hline\end{array}$ | -5 -10 -14 - - - |  | 3.2 $7-$ 10 10 10 12 2.4 | 4.8 10 -14 14 14 -3.6 |  | $\begin{array}{r}3.2 \\ 7 \\ 10 \\ \hline \\ \hline\end{array}$ | -4.8 -10 -14 - - |

1 Single pole breaking capacity for IT type European grounding system (insulated neutral-double fault).

Table 16: Dimensions and Weights

| Device | Size | Height |  | Width |  | Depth |  | Weight |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | in. | mm | in. | mm | in. | mm | oz. | g |
| DPN-N | 1 P | 3.19 | 81 | 0.71 | 18 | 3.00 | 76 | 4.23 | 120 |
| C60N | $\begin{aligned} & 1 P \\ & 2 P \\ & 3 P \\ & 4 P \end{aligned}$ | $\begin{aligned} & 3.19 \\ & 3.19 \\ & 3.19 \\ & 3.19 \end{aligned}$ | $\begin{aligned} & 81 \\ & 81 \\ & 81 \\ & 81 \end{aligned}$ | $\begin{aligned} & 0.71 \\ & 1.42 \\ & 2.13 \\ & 2.48 \end{aligned}$ | $\begin{aligned} & 18 \\ & 36 \\ & 54 \\ & 72 \end{aligned}$ | $\begin{aligned} & 3.00 \\ & 3.00 \\ & 3.00 \\ & 3.00 \end{aligned}$ | $\begin{aligned} & 76 \\ & 76 \\ & 76 \\ & 76 \end{aligned}$ | $\begin{gathered} 3.88 \\ 7.75 \\ 11.64 \\ 15.52 \end{gathered}$ | $\begin{aligned} & 110 \\ & 220 \\ & 330 \\ & 440 \end{aligned}$ |
| $\mathrm{C6OH}$ | $\begin{aligned} & 1 P \\ & 2 P \\ & 3 P \\ & 4 P \end{aligned}$ | $\begin{aligned} & \hline 3.19 \\ & 3.19 \\ & 3.19 \\ & 3.19 \end{aligned}$ | $\begin{aligned} & 81 \\ & 81 \\ & 81 \\ & 81 \end{aligned}$ | $\begin{aligned} & \hline 0.71 \\ & 1.42 \\ & 2.13 \\ & 2.48 \end{aligned}$ | $\begin{aligned} & 18 \\ & 36 \\ & 54 \\ & 72 \end{aligned}$ | $\begin{aligned} & 3.00 \\ & 3.00 \\ & 3.00 \\ & 3.00 \end{aligned}$ | $\begin{aligned} & 76 \\ & 76 \\ & 76 \\ & 76 \end{aligned}$ | $\begin{gathered} \hline 4.23 \\ 8.47 \\ 12.70 \\ 16.93 \end{gathered}$ | $\begin{aligned} & 120 \\ & 240 \\ & 360 \\ & 480 \end{aligned}$ |
| C60L | $\begin{aligned} & 1 P \\ & 2 P \\ & 3 P \\ & 4 P \end{aligned}$ | $\begin{aligned} & \hline 3.19 \\ & 3.19 \\ & 3.19 \\ & 3.19 \end{aligned}$ | $\begin{aligned} & 81 \\ & 81 \\ & 81 \\ & 81 \end{aligned}$ | $\begin{aligned} & \hline 0.71 \\ & 1.42 \\ & 2.13 \\ & 2.48 \end{aligned}$ | $\begin{aligned} & 18 \\ & 36 \\ & 54 \\ & 72 \end{aligned}$ | $\begin{aligned} & \hline 3.00 \\ & 3.00 \\ & 3.00 \\ & 3.00 \end{aligned}$ | $\begin{aligned} & 76 \\ & 76 \\ & 76 \\ & 76 \end{aligned}$ | $\begin{gathered} \hline 4.23 \\ 8.47 \\ 12.70 \\ 16.93 \end{gathered}$ | $\begin{aligned} & 120 \\ & 240 \\ & 360 \\ & 480 \end{aligned}$ |
| C120H/NC125H | $\begin{aligned} & 1 P \\ & 2 P \\ & 3 P \\ & 4 P \end{aligned}$ | $\begin{aligned} & \hline 3.19 \\ & 3.19 \\ & 3.19 \\ & 3.19 \end{aligned}$ | $\begin{aligned} & 81 \\ & 81 \\ & 81 \\ & 81 \end{aligned}$ | $\begin{aligned} & \hline 0.71 \\ & 2.13 \\ & 3.19 \\ & 4.25 \end{aligned}$ | $\begin{gathered} \hline 27 \\ 54 \\ 81 \\ 108 \end{gathered}$ | $\begin{aligned} & \hline 3.00 \\ & 3.00 \\ & 3.00 \\ & 3.00 \end{aligned}$ | $\begin{aligned} & 76 \\ & 76 \\ & 76 \\ & 76 \end{aligned}$ | $\begin{gathered} \hline 6.35 \\ 12.70 \\ 19.05 \\ 25.40 \end{gathered}$ | $\begin{aligned} & \hline 180 \\ & 360 \\ & 540 \\ & 720 \end{aligned}$ |

The C60 family of Multi 9 circuit breakers meeting IEC 60947-2 is available primarily for equipment for export from the United States to countries requiring IEC Certification rather than UL Listing.

Three types of IEC Rated C60 devices are available: C60N, C60H, and C60L circuit breakers. These model numbers refer to the maximum current interrupting (Ultimate Breaking Capacity) ratings, see Table 15 on page 24.

Each of these devices is available with several characteristic trip curve ratings, as listed in the tables with catalog numbers. They include devices ranging from 0.5 to 63 A . (For higher current ratings, select devices from the higher current C120 series.)

Table 19: Specifications for IEC Rated C60 Miniature Circuit Breakers

| High Voltage Withstand | 6 kV |  |
| :---: | :---: | :---: |
| Connections (Box Lug) for C60N/H/L Except C60L-MA ${ }^{1}$ | 0.5-25 A, 18-4 AWG (1-25 mm²) Cu Only Cables | Torque to 22 lb -in (2.5 N•m) |
|  | 30-63 A, 18-2 AWG (1-35 mm ${ }^{2}$ ) Cu Only Cables | Torque to 31 lb -in ( $3.5 \mathrm{~N} \bullet \mathrm{~m}$ ) |
| Connections for C60L-MA: | 1.5-10 A Stranded 6 AWG (16 mm²) | Torque to 35 lb -in ( $4 \mathrm{~N} \cdot \mathrm{~m}$ ) |
|  | 1.5-10 A Solid 4 AWG ( $25 \mathrm{~mm}^{2}$ ) | Torque to 18 lb -in (2 N 0 m ) |
|  | 12.5-40 A Stranded 4 AWG ( $25 \mathrm{~mm}^{2}$ ) | Torque to 35 lb -in ( $4 \mathrm{~N} \cdot \mathrm{~m}$ ) |
|  | 12.5-40 A Solid 2 AWG ( $35 \mathrm{~mm}^{2}$ ) | Torque to 31 lb -in ( $3.5 \mathrm{~N} \bullet \mathrm{~m}$ ) |
| Mounting | 35 mm DIN rail |  |
| Time-Current Curves | B, C, D, K, and MA |  |
| Degree of Protection | Case | IP40 as per IEC 529 |
|  | Terminals | IP20 |
| Temperature: | Calibration temperature: $30^{\circ} \mathrm{C}\left(86^{\circ} \mathrm{F}\right)$ | C60L calibrated at $40^{\circ} \mathrm{C}\left(104^{\circ} \mathrm{F}\right)$ |
|  | Storage temperature | -40 to $80^{\circ} \mathrm{C}\left(-40\right.$ to $\left.176{ }^{\circ} \mathrm{F}\right)$ |
|  | Operating temperature | -30 to $70^{\circ} \mathrm{C}\left(-22\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Tropicalization | Treatment 2 | Relative Humidity: $95 \%$ at $131^{\circ} \mathrm{F}\left(55^{\circ} \mathrm{C}\right)$ per IEC 68-2-30 |
| Number of Operating Cycles | Mechanical (O-C) | 20,000 |
|  | Electrical (O-C) | 10,000 |

See selection table for dimensions, weights and interrupting ratings
1 Ring tongue terminal is optional

## Standard Features

- Fast closing: Allows increased withstand to the high inrush currents of some loads
- Trip-free mechanism: Contacts cannot be held in the I-ON position when the C60 device is tripped automatically.
- Positive indication of contact disconnect. Green mechanical indication on front face of device shows that all poles are open.
- Suitable for reverse feeding.
- B curve: Overcurrent protection for sensitive equipment (computers, electronic devices, etc.):
- C60N/H: The magnetic release operates between 3 and 5 times ampere rating.
- C curve: Overcurrent protection for all application types:
- C60N/H: The magnetic release operates between 5 and 10 times ampere rating.
- C60L: The magnetic release operates between 7 and 10 times ampere rating.
- D and K curves: Overcurrent protection for loads with high inrush currents (motors, transformers):
- C60N/H/L: The magnetic release operates between 10 and 14 times ampere rating.
- MA curve: C60L-MA circuit breakers are designed for motor circuit protection against short circuits. These circuit breakers are equipped with magnetic-only trip units at 12 times ampere rating. Therefore they must be combined with a suitable thermal protection device.


## Standards

- IEC 60947-2
- VDE 0660
- CE Marked


## Catalog Numbers

Table 20: Catalog Numbers for IEC 60947-2 Rated C60N Miniature Circuit Breakers

| Rating | B Curve |  |  |  | C Curve |  |  |  | D Curve |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 P | 2 P | 3P | 4P | 1 P | 2 P | 3 P | 4P | 1 P | 2P | 3P | 4P |
| 0.5 A | - | - | - | - | 24067 | 24068 | 24069 | 24070 | - | - | - | - |
| 1 A | 24045 | 24071 | 24084 | 24097 | 24395 | 24331 | 24344 | 24357 | 24625 | 24653 | 24667 | 24681 |
| 2 A | 24046 | 24072 | 24085 | 24098 | 24396 | 24332 | 24345 | 24358 | 24626 | 24654 | 24668 | 24682 |
| 3 A | 24047 | 24073 | 24086 | 24099 | 24397 | 24333 | 24346 | 24359 | 24627 | 24655 | 24669 | 24683 |
| 4 A | 24048 | 24074 | 24087 | 24100 | 24398 | 24334 | 24347 | 24360 | 24628 | 24656 | 24670 | 24684 |
| 6 A | 24049 | 24075 | 24088 | 24101 | 24399 | 24335 | 24348 | 24361 | 24629 | 24657 | 24671 | 24685 |
| 10 A | 24050 | 24076 | 24089 | 24102 | 24401 | 24336 | 24349 | 24362 | 24630 | 24658 | 24672 | 24686 |
| 16 A | 24051 | 24077 | 24090 | 24103 | 24403 | 24337 | 24350 | 24363 | 24632 | 24660 | 24674 | 24688 |
| 20 A | 24052 | 24078 | 24091 | 24104 | 24404 | 24338 | 24351 | 24364 | 24633 | 24661 | 24675 | 24689 |
| 25 A | 24053 | 24079 | 24092 | 24105 | 24405 | 24339 | 24352 | 24365 | 24634 | 24662 | 24676 | 24690 |
| 32 A | 24054 | 24080 | 24093 | 24106 | 24406 | 24340 | 24353 | 24366 | 24635 | 24663 | 24677 | 24691 |
| 40 A | 24055 | 24081 | 24094 | 24107 | 24407 | 24341 | 24354 | 24367 | 24636 | 24664 | 24678 | 24692 |
| 50 A | 24056 | 24082 | 24095 | 24108 | 24408 | 24342 | 24355 | 24368 | 24637 | 24665 | 24679 | 24693 |
| 63 A | 24057 | 24083 | 24096 | 24109 | 24409 | 24343 | 24356 | 24369 | 24638 | 24666 | 24680 | 24694 |

Table 21: Catalog Numbers for IEC 60947-2 Rated C60H Miniature Circuit Breakers

| Rating | B Curve |  |  |  | C Curve |  |  |  | D Curve |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1P | 2 P | 3P | 4P | 1 P | 2 P | 3P | 4P | 1 P | 2 P | 3P | 4P |
| 0.5 A | - | - | - | - | 24900 | 24902 | 24906 | 24908 | 25171 | 25172 | 25173 | 25174 |
| 0.75 A | - | - | - | - | 24901 | 24903 | 24907 | 24909 | - | - | - | - |
| 1 A | - | - | - | - | 24968 | 24981 | 24994 | 25007 | 25152 | 25183 | 25196 | 25211 |
| 2 A | - | - | - | - | 24969 | 24982 | 24995 | 25008 | 25155 | 25184 | 25197 | 25212 |
| 3 A | - | - | - | - | 24970 | 24983 | 24996 | 25009 | 25157 | 25185 | 25198 | 25213 |
| 4 A | - | - | - | - | 24971 | 24984 | 24997 | 25010 | 25158 | 25186 | 25199 | 25214 |
| 6 A | 24643 | 24725 | 24738 | 24751 | 24972 | 24985 | 24998 | 25011 | 25159 | 25187 | 25200 | 25215 |
| 10 A | 24644 | 24726 | 24739 | 24752 | 24973 | 24986 | 24999 | 25012 | 25160 | 25188 | 25201 | 25216 |
| 13 A | 24645 | - | - | - | - | - | - | - | - | - | - | - |
| 16 A | 24646 | 24727 | 24740 | 24753 | 24974 | 24987 | 25000 | 25013 | 25161 | 25189 | 25202 | 25217 |
| 20 A | 24647 | 24728 | 24741 | 24754 | 24975 | 24988 | 25001 | 25014 | 25164 | 25190 | 25203 | 25218 |
| 25 A | 24648 | 24729 | 24742 | 24755 | 24976 | 24989 | 25002 | 25015 | 25165 | 25191 | 25205 | 25219 |
| 32 A | 24649 | 24730 | 24743 | 24756 | 24977 | 24990 | 25003 | 25016 | 25166 | 25192 | 25207 | 25220 |
| 40 A | 24650 | 24731 | 24744 | 24757 | 24978 | 24991 | 25004 | 25017 | 25167 | 25193 | 25208 | 25221 |
| 50 A | 24651 | 24732 | 24745 | 24758 | 24979 | 24992 | 25005 | 25018 | 25168 | 25194 | 25209 | 25222 |
| 63 A | 24652 | 24733 | 24746 | 24759 | 24980 | 24993 | 25006 | 25019 | 25169 | 25195 | 25210 | 25223 |

## Multi $9^{\text {TM }}$ System Catalog

## UL 1077 Supplementary Protectors

Figure 29: C60 UL 1077 Supplementary Protectors


IEC Rated Circuit Breakers

Figure 30: IEC DPN-N Circuit Breaker


Figure 31: C60 IEC Circuit Breakers


Figure 32: C120 IEC Circuit Breaker


Dimensions: $\begin{aligned} & \text { in. } \\ & (\mathrm{mm})\end{aligned}$

