## Multi $9^{\text {TM }}$ System Catalog <br> Section 2-UL and CSA Rated Protection Devices

## UL 1077 Recognized C60 Supplementary Protectors

The UL 1077 products are intended for use as supplementary protectors to provide overcurrent protection within appliances or electrical equipment where branch circuit protection is already provided or is not required.

As shown in the table of catalog numbers below, the UL 1077 Recognized products are available in B, C and D curves. They include devices ranging from 0.5 A to 63 A .

Figure 6: UL 1077 Recognized C60N Supplementary Protectors


Table 13: Specifications for UL 1077 Recognized C60 Supplementary Protectors

| Package Size | 0.71 in. (18 mm) | Width per Pole |
| :---: | :---: | :---: |
| Voltage | Nominal Voltage High Voltage Withstand | 480Y/277 Vac 6 kV |
| Connection, Box Lug | Cable: 0.5-25 A: 14-4 AWG (2-25 mm²) Cu Only | Torque 22 lb -in (2.49 N•m) |
| UL 486A File No. E90509 Pending | Cable: 30-63 A: 14-2 AWG (2-35 mm²) Cu Only | Torque 31 lb -in (3.50 Nom) |
| Optional Ring Terminal Kit | Screw Dia.: 0.2 in. (5mm) | Torque 18 lb -in (2.03 N•m) |
| Mounting | 35 mm DIN rail |  |
| Time-Current Curves | B, C, and D Curves |  |
| Degree of Protection as per IEC 68-2-30 | Case | IP40 as per IEC 529 |
|  | Terminals | IP20 |
| Temperatures | Calibration | $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$ |
|  | Storage | -40 to $80^{\circ} \mathrm{C}\left(-40\right.$ to $\left.176{ }^{\circ} \mathrm{F}\right)$ |
|  | Operating | -30 to $70^{\circ} \mathrm{C}\left(-22\right.$ to $\left.158^{\circ} \mathrm{F}\right)$ |
| Tropicalization | Treatment 2 | Relative Humidity: $95 \%$ at $131^{\circ} \mathrm{F}\left(55^{\circ} \mathrm{C}\right)$ |
| Number of Operating Cycles: | Electrical (O-C) | 10,000 at 0.5-63 A |
| See Specification Table 3 for dimensions, weights and interrupting ratings |  |  |
| Standards |  |  |
| - UL 1077 Circuit Breaker, File No. E90509 |  |  |
| - CSA C22.2 No. 235-M89 File No. 179014 |  |  |
| - IEC 60947-2 |  |  |
| - VDE 0660 |  |  |
| - CE Marked |  |  |

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## Standard Features

- Trip-free mechanism: Contacts cannot be held in the on position when the C 60 is tripped automatically.
- Positive indication of contact disconnect. Green mechanical indication on front face of device shows that all poles are open.
- B curve: Overcurrent protection for sensitive equipment (computers, electronic devices, etc.). Magnetic release operates between 3.2 and 4.8. (between 3.2 and 6.8 for dc)
- C curve: Overcurrent protection for all application types. Magnetic release operates from 7 to 10 times ampere rating. (between 7 and 14 for dc)
- D curve: Overcurrent protection for loads with high inrush currents (motors, transformers). Magnetic release operates between 10 and 14 times ampere rating. (no dc rating)
- Allows locking in O-OFF position using padlock attachment.
- Suitable for reverse feeding.

For rating and dimensional information, see Table 3, "Specifications for UL 1077 Recognized Supplementary Protectors"

## Catalog Numbers

Table 14: Catalog Numbers for UL 1077 Recognized C60N Supplementary Protectors

|  | B Curve |  |  |  | C Curve |  |  |  | D Curve |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 P | 2P | 3P | 4P | 1 P | 2 P | 3P | 4P | 1 P | 2P | 3P | 4P |
| 0.5 A | - | - | - | - | MG17411 | - | - | - | MG17421 | - | - | - |
| 1 A | MG24110 | MG24125 | MG24140 | MG24155 | MG24425 | MG24442 | MG24459 | MG24476 | MG24500 | MG24516 | MG24532 | MG24548 |
| 1.2 A | MG17402 | MG17432 | - | - | MG17412 | MG17442 | - | - | MG17422 | MG17452 | - | - |
| 1.5 A | MG17403 | MG17433 | - | - | MG17413 | MG17443 | - | - | MG17423 | MG17453 | - | - |
| 2 A | MG24111 | MG24126 | MG24141 | MG24156 | MG24426 | MG24443 | MG24460 | MG24477 | MG24501 | MG24517 | MG24533 | MG24549 |
| 3 A | MG24112 | MG24127 | MG24142 | MG24157 | MG24427 | MG24444 | MG24461 | MG24478 | MG24502 | MG24518 | MG24534 | MG24550 |
| 4 A | MG24113 | MG24128 | MG24143 | MG24158 | MG24428 | MG24445 | MG24462 | MG24479 | MG24503 | MG24519 | MG24535 | MG24551 |
| 5 A | MG17404 | MG17434 | - | - | MG17414 | MG17444 | - | - | MG17424 | MG17454 | - |  |
| 6 A | MG24114 | MG24129 | MG24144 | MG24159 | MG24430 | MG24447 | MG24464 | MG24481 | MG24504 | MG24520 | MG24536 | MG24552 |
| 7 A | MG17405 | MG17435 | - | - | MG17415 | MG17445 | - | - | MG17425 | MG17455 | - | - |
| 8 A | MG24115 | MG24130 | MG24145 | MG24160 | MG24431 | MG24448 | MG24465 | MG24482 | MG24505 | MG24521 | MG24537 | MG24553 |
| 10 A | MG24116 | MG24131 | MG24146 | MG24161 | MG24432 | MG24449 | MG24466 | MG24483 | MG24506 | MG24522 | MG24538 | MG24554 |
| 13 A | MG24117 | MG24132 | MG24147 | MG24162 | MG24433 | MG24450 | MG24467 | MG24484 | MG24507 | MG24523 | MG24539 | MG24555 |
| 15 A | MG17406 | MG17436 | MG17461 | - | MG17416 | MG17446 | MG17466 | - | MG17426 | MG17456 | MG17471 | - |
| 16 A | MG24118 | MG24133 | MG24148 | MG24163 | MG24434 | MG24451 | MG24468 | MG24485 | MG24508 | MG24524 | MG24540 | MG24556 |
| 20 A | MG24119 | MG24134 | MG24149 | MG24164 | MG24435 | MG24452 | MG24469 | MG24486 | MG24509 | MG24525 | MG24541 | MG24557 |
| 25 A | MG24120 | MG24135 | MG24150 | MG24165 | MG24436 | MG24453 | MG24470 | MG24487 | MG24510 | MG24526 | MG24542 | MG24558 |
| 30 A | MG17407 | MG17437 | MG17462 | - | MG17417 | MG17447 | MG17467 | - | MG17427 | MG17457 | MG17472 | - |
| 32 A | MG24121 | MG24136 | MG24151 | MG24166 | MG24437 | MG24454 | MG24471 | MG24488 | MG24511 | MG24527 | MG24543 | MG24559 |
| 35 A | MG17408 | MG17438 | MG17463 | - | MG17418 | MG17448 | MG17468 | - | MG17428 | MG17458 | MG17473 | - |
| 40 A | MG24122 | MG24137 | MG24152 | MG24167 | MG24438 | MG24455 | MG24472 | MG24489 | MG24512 | MG24528 | MG24544 | MG24560 |
| 50 A | MG24123 | MG24138 | MG24153 | MG24168 | MG24439 | MG24456 | MG24473 | MG24490 | MG24513 | MG24529 | MG24545 | MG24561 |
| 60 A | MG17409 | MG17439 | MG17464 | - | MG17419 | MG17449 | MG17469 | - | MG17429 | MG17459 | MG17474 | - |
| 63 A | MG24124 | MG24139 | MG24154 | MG24169 | MG24440 | MG24457 | MG24474 | MG24491 | MG24514 | MG24530 | MG24546 | MG24562 |

