

[INCH-POUND]  
A-A-59886/1  
12 August 2011

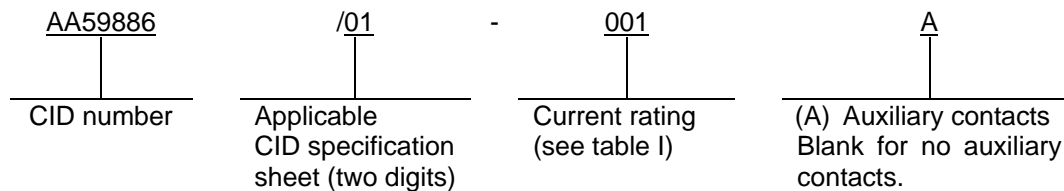
## COMMERCIAL ITEM DESCRIPTION SPECIFICATION SHEET

CIRCUIT BREAKERS, MINIATURE, THERMAL MAGNETIC, SHOCK ENHANCED, TRIP-FREE,  
SERIES TRIP, HIGH DENSITY DESIGN, 35 MM DIN CHANNEL MOUNT,  
ONE POLE, 0.2 TO 30 AMPERES (A)

The General Services Administration has authorized the use of this  
commercial item description (CID) for all federal agencies.

The complete requirements for procuring the circuit breakers described herein shall consist of this  
document and the issue in effect of CID [A-A-59886](#).

CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN). This commercial item description (CID)  
specification sheet uses a classification system which is included in the PIN as shown in the following  
example (see NOTES).



### SALIENT CHARACTERISTICS.

Interface and physical dimensions. Circuit breakers supplied to this CID specification sheet shall be as  
specified herein and shall meet the requirements of [UL 1077](#) and [CSA C22.2 Number 235](#) for  
supplementary protectors and [EN/IEC 60934](#) for circuit breakers for equipment (CBE) (see figure 1).

Maximum voltage and frequency rating. The maximum voltage and frequency rating shall be 480V ac/  
277 V ac at 50/60 Hertz, 65 V dc.

Current rating. The current rating shall be in accordance with table I.

Calibration (Time delay). Calibration (time delay) shall be in accordance with table II.

Temperature range. The temperature range shall be -40°F to 149°F (-40°C to 65°C) non-condensing.

Operating life. The operating life shall be 6,000 operations at rated current.

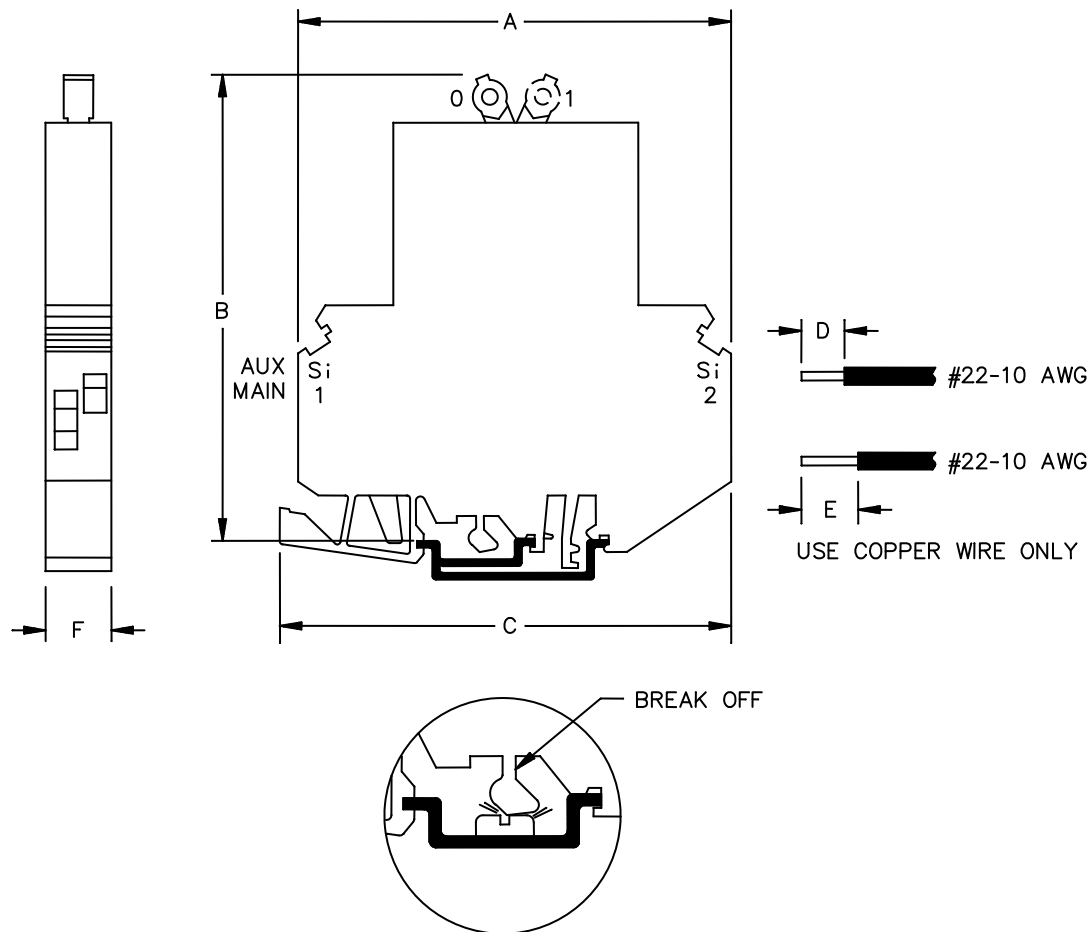
Housing material. The housing material shall be glass-filled Polyamide 6.6.

Shock. The shock shall be 25 G, 11 ms duration.

Terminal type. The terminal type shall be tubular screw with self-lifting box lug.

Wire size. The wire size shall be number 22 to number 10 AWG.

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| Ltr | Inches |       | mm    |       |
|-----|--------|-------|-------|-------|
|     | Min    | Max   | Min   | Max   |
| A   | 3.475  | 3.485 | 88.27 | 88.52 |
| B   | 3.145  | 3.155 | 80.01 | 80.14 |
| C   | 3.475  | 3.485 | 88.27 | 88.52 |
| D   | .405   | 0.415 | 10.29 | 10.54 |
| E   | .505   | 0.515 | 12.83 | 13.08 |
| F   | .485   | 0.495 | 12.32 | 12.57 |

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is  $\pm 0.005$  (0.13 mm).

FIGURE 1. Interface and physical dimensions.

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TABLE I. PIN dash number parameters.

| CID dash number<br>AA59886/01- | Current rating<br>(Amperes) | CID dash number<br>AA59886/01- | Current rating<br>(Amperes) |
|--------------------------------|-----------------------------|--------------------------------|-----------------------------|
| 001                            | 0.2                         | 011                            | 5.0                         |
| 002                            | 0.5                         | 012                            | 6.0                         |
| 003                            | 0.8                         | 013                            | 7.0                         |
| 004                            | 1.0                         | 014                            | 8.0                         |
| 005                            | 1.2                         | 015                            | 10.0                        |
| 006                            | 1.5                         | 016                            | 12.0                        |
| 007                            | 2.0                         | 017                            | 15.0                        |
| 008                            | 2.5                         | 018                            | 16.0                        |
| 009                            | 3.0                         | 019                            | 20.0                        |
| 010                            | 4.0                         | 020                            | 25.0                        |

TABLE II. Calibration (time delay) in seconds.

| Tripping-time delay at +21.1°C (70°F) (tripping time in seconds) |             |     |             |       |              |       |                         |     |
|--|-------------|-----|-------------|-------|--------------|-------|-------------------------|-----|
| Time delay<br>Percent rated current                              | 100 percent |     | 200 percent |       | 300 percent  |       | 400 percent             |     |
| Tripping times<br>(seconds)                                      | Max         | Min | Max         | Min   | Max          | Min   | Max                     | Min |
|  | No trip     |     | 40          | 10    | 18           | 3     | 9                       | 1.5 |
| Time delay<br>Percent rated current                              | 500 percent |     | 600 percent |       | 1000 percent |       | 2000 percent<br>greater |     |
| Tripping times<br>(seconds)                                      | Max         | Min | Max         | Min   | Max          | Min   | Max                     | Min |
|  | 6           | 0.8 | 4           | 0.003 | 2            | 0.009 | 0.02                    | n/a |

Recommended wire strip length. The recommended wire strip length shall be .51 inch (13 mm) for the main terminal and .41 inch (10.4 mm) for the auxiliary terminal.

Terminal torque. 0.656 Newton meters (N m) (5 pounds (lb) inch)

Auxiliary contacts (N.O. or N.C.). Contact capacity shall be 1.0 amperes ac or dc (Resistive load).

#### NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification information for PIN format example.

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Source of documents.

Other Publications

CANADIAN STANDARDS ASSOCIATION (CSA)

[CSA C22.2 NO 235](#) - Supplementary Protectors.

(Copies of this document is available online at <http://www.csa.ca/> or from the Canadian Standards Association, 8501 East Pleasant Valley Road, Cleveland, Ohio 44131-5575.)

INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC)

[EN/IEC 60934](#) - Circuit Breakers for Equipment (CBE).

(Copies of this document is available online at <http://www.iec.ch/> or from the International Electrotechnical Commission , 446 Main Street, 16th Floor, Worcester, MA 01608.)

UNDERWRITERS LABORATORIES, INCORPORATED (UL)

[UL 1077](#) - Supplementary Protectors for Use in Electrical Equipment, Standard For Safety.

(Copies of this document is available online at <http://www.ul.com/> or from the Underwriters Laboratories, Incorporated, 333 Pfingsten Road, Northbrook, IL 60062-2096.)

(Industry association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict acquisition to only the manufacturers shown.)

MFR's CAGE

4H047

MFR's name and address

Rockwell Automation, Incorporated  
1 Allen-Bradley Drive  
Mayfield Heights, OH 44124-6118  
Phone number: (440) 646-5000  
Facsimile number: (440) 646-3138  
E-mail: [RAGov@ra.rockwell.com](mailto:RAGov@ra.rockwell.com)  
Uniform Resource Locator (URL): [www.rockwellautomation.com](http://www.rockwellautomation.com)

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Part number (P/N) supersession data. These CID specification sheet PINs supersede the following MFR's P/N's as shown. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE I. P/N supersession data.

| CID dash number<br>(see table I)<br>AA59886/01- | MFR's CAGE<br>4H047 | CID dash number<br>(see table I)<br>AA59886/01- | MFR's CAGE<br>4H047 |
|---|---------------------|---|---------------------|
|   | MFR's P/N <u>1/</u> |   | MFR's P/N <u>1/</u> |
| 001   | 1492-GS1G002        | 001A  | 1492-GS1G002H1      |
| 002   | 1492-GS1G005        | 002A  | 1492-GS1G005H1      |
| 003   | 1492-GS1G008        | 003A  | 1492-GS1G008H1      |
| 004   | 1492-GS1G0010       | 004A  | 1492-GS1G0010H1     |
| 005   | 1492-GS1G0012       | 005A  | 1492-GS1G0012H1     |
| 006   | 1492-GS1G0015       | 006A  | 1492-GS1G0015H1     |
| 007   | 1492-GS1G0020       | 007A  | 1492-GS1G0020H1     |
| 008   | 1492-GS1G0025       | 008A  | 1492-GS1G0025H1     |
| 009   | 1492-GS1G0030       | 009A  | 1492-GS1G0030H1     |
| 010   | 1492-GS1G0040       | 010A  | 1492-GS1G0040H1     |
| 011   | 1492-GS1G0050       | 011A  | 1492-GS1G0050H1     |
| 012   | 1492-GS1G0060       | 012A  | 1492-GS1G0060H1     |
| 013   | 1492-GS1G0070       | 013A  | 1492-GS1G0070H1     |
| 014   | 1492-GS1G0080       | 014A  | 1492-GS1G0080H1     |
| 015   | 1492-GS1G0100       | 015A  | 1492-GS1G0100H1     |
| 016   | 1492-GS1G0120       | 016A  | 1492-GS1G0120H1     |
| 017   | 1492-GS1G0150       | 017A  | 1492-GS1G0150H1     |
| 018   | 1492-GS1G0160       | 018A  | 1492-GS1G0160H1     |
| 019   | 1492-GS1G0200       | 019A  | 1492-GS1G0200H1     |
| 020   | 1492-GS1G0250       | 020A  | 1492-GS1G0250H1     |

1/ The manufacturer's P/N shall not be used for acquisition to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID P/N shown. For actual part marking requirements see the marking paragraph of [A-A-59886](#).

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MILITARY INTERESTS:

Custodians:  
Navy - EC  
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FAS

Preparing activity:

DLA-CC

Project 5925-2011-019

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.