

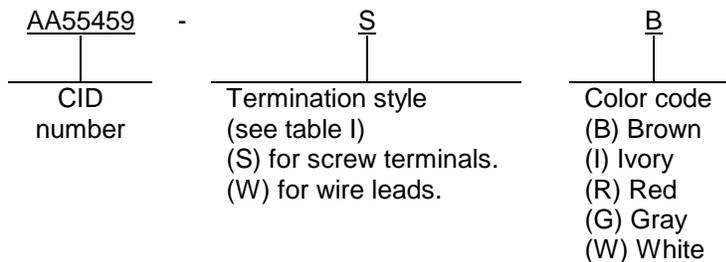
[INCH-POUND]
A-A-55459C
October 1, 2003
SUPERSEDING
A-A-55459B
April 27, 2001

COMMERCIAL ITEM DESCRIPTION

INTERRUPTER, GROUND FAULT, TWO-POLE, THREE-WIRE, 20-AMPERE

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

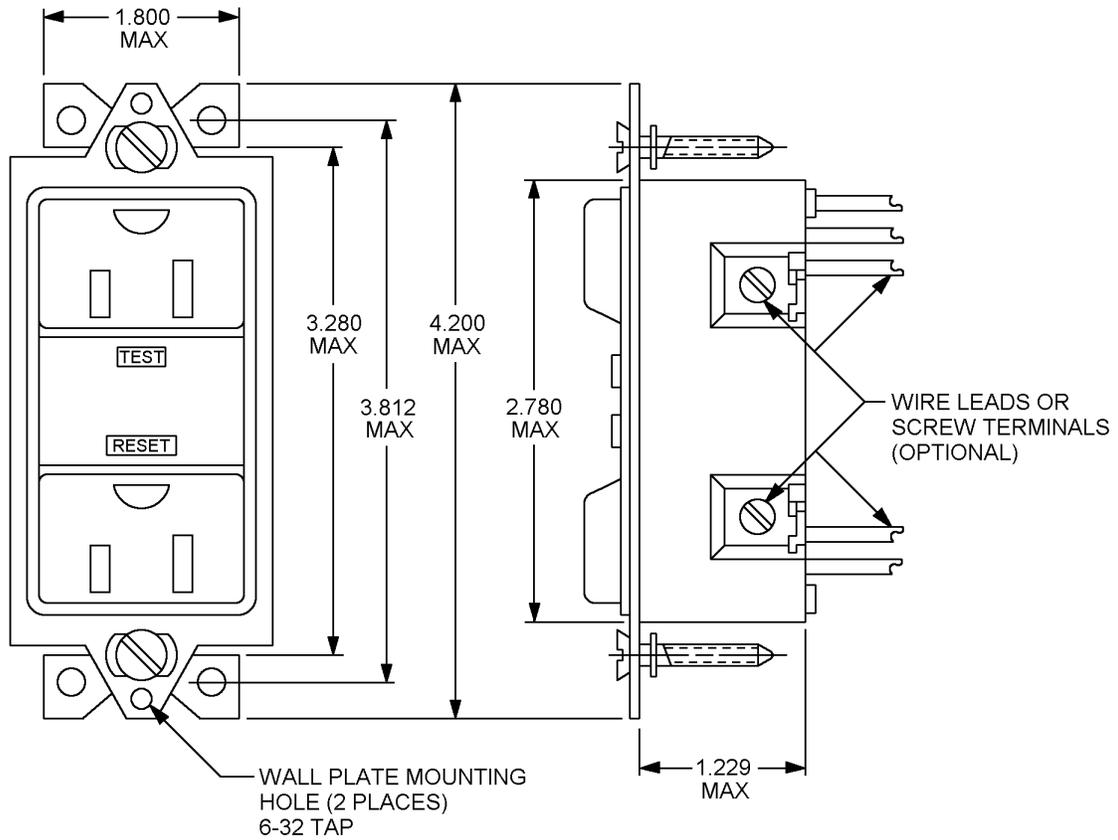
1. **SCOPE.** This CID covers the general requirements for a 20-ampere ground fault interrupter. Ground fault interrupters covered by this CID are intended for commercial/industrial applications.
2. **CLASSIFICATION.** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).



3. SALIENT CHARACTERISTICS.

- 3.1 Interface and physical dimensions. Ground fault interrupters supplied to this CID shall be as specified herein and shall meet the requirements of UL 943 for class A ground fault interrupters (see figure 1).
- 3.2 Ampere rating. The ampere rating shall be 20 amperes maximum.
- 3.3 Voltage rating. The voltage rating shall be 125 V ac maximum.
- 3.4 Frequency rating. The frequency rating shall be 60 Hz.
- 3.5 Trip threshold. This ground fault interrupter shall trip when a fault current to ground is 4-6 mA minimum.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be addressed to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-0548, or facsimile (FAX) (614) 692-6939.



Inches	mm
1.229	31.22
1.800	45.72
2.780	70.61
3.280	83.33
3.812	96.82
4.200	106.68

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerance is ± 0.005 inch (0.13 mm).
3. Location of test and reset buttons is optional.

FIGURE 1. Configuration and dimensions.

3.6 Dimensions. Dimensions shall conform to NEMA standard WD 6 (reference NEMA configuration 5-20R) (see figure 1).

3.7 Termination style. The termination style shall be either screw terminals or wire leads.

3.8 Wire size. The maximum wire size the screw terminal connectors shall accept is number 10 American Wire Gauge (AWG). The minimum wire size of the wire shall be number 14 AWG.

3.9 Wire lead length. The free length of the wire leads shall be 4 inches (101.6 millimeters) minimum. The free length of the ground lead shall be 6 inches (152.4 millimeters) minimum.

3.10 Marking. Ground fault interrupters or their unit package supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN and the ground fault interrupters shall bear the appropriate UL listing mark.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR).

5. PRODUCT CONFORMANCE PROVISIONS.

5.1 Product conformance. The products provided shall meet the salient characteristics of this CID, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

5.2 Market acceptance. The following market acceptance criteria are necessary to document the quality of the product to be provided under this CID:

- a. The company producing the item must have been producing a product meeting the requirements of this CID for at least 2 years.
- b. The company must have sold 1,000 units meeting this CID in the commercial marketplace over the past 2 years.

6. PACKAGING. Preservation, packing, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format example.

7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these ground fault interrupters to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

7.3 Source of documents.

Other Publications

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

NEMA WD 6 - Wiring Devices - Dimensional Requirements.

(Applications for copies should be addressed to the National Electrical Manufacturers Association, 1300 North 17TH Street, Suite 1847, Rosslyn, VA 22209-3801.)

UNDERWRITERS LABORATORIES, INCORPORATED (UL)

UL 943 - Ground-Fault Circuit-Interrupters, Standard for.

(Applications for copies should be addressed to 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.)

7.4 Ordering data. The contract or order should specify the following:

- a. CID document number, revision, and CID PIN.
- b. Product conformance provisions.
- c. Packaging requirements.

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

<u>MFR's CAGE</u>	<u>MFR's name and address</u>
04009	Cooper Industries, Incorporated Crouse-Hinds Division Arrow-Hart Wiring Devices P.O. Box 4999 Syracuse, NY 13221-4999 Phone number: (800) 628-8956 Facsimile number: (800) 628-8957 E-mail: arrow-hart@crouse-hinds.com Uniform Resource Locator (URL): www.crouse-hinds.com/arrowHart/main.cfm
41326	General Electric Company 225 Service Avenue Warwick, RI 02886-1054 Phone number: (800) 431-7867 URL: www.ge.com/wiringdevices
71183	Bryant Electric, Incorporated 185 Plains Road Milford, CT 06460-2465 Phone number (203) 876-3600 Facsimile number (203) 876-3675 E-mail: www.bryantelectric.com URL: www.hubbell-bryant.com
74545	Hubbell, Incorporated Wiring Device-Kellems 185 Plains Road Milford, CT 06460-2473 Phone number: (203) 882-4800 Facsimile number: (800) 255-1031 E-mail: cthompso@hubbell.com URL: www.hubbell-wiring.com

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Pass & Seymour Incorporated
PO Box 4822
Syracuse, NY 13211-4822
Phone number: (315) 468-8481
Facsimile number: (315) 634-2713
E-mail: tech_support@pass-seymour.com
URL: www.passandseymour.com

7.6 Part number (P/N) supersession data. These CID 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 II. P/N supersession data.

CID dash number AA55459-	MFR's CAGE 04009	MFR's CAGE 41326	MFR's CAGE 71183	MFR's CAGE 74545	MFR's CAGE 81091
	MFR's P/N <u>1/</u>				
SB	GF5342	GFR5342-1	GFR53FT	GF5352A	2094
SI	GF5342I	GF5342-2	GFR53FT-I	GF5352IA	2094I
SR	N/A	N/A	GFR53FT-R	N/A	2094RED
SG	GF5342GRY	GFR5342-9	GFR53FT-GRY	GF5352GYA	2094GRY
SW	GF5342W	GFR5342-7	GFR53FT-W	GF5352WA	2094W
WB	N/A	N/A	N/A	GF5362	N/A
WI	N/A	N/A	N/A	GF5362I	N/A
WR	N/A	N/A	N/A	GF5362R	N/A
WG	N/A	N/A	N/A	GF5362GY	N/A
WW	N/A	N/A	N/A	GF5362W	N/A

1/ The manufacturer's P/N shall not be used for procurement 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 see 3.10.

7.7 Government users. To acquire information on obtaining these ground fault interrupters from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CSA, Post Office Box 3990, Columbus, OH 43216-5000, or telephone (614) 692-7491.

MILITARY INTERESTS:

CIVIL AGENCY COORDINATING ACTIVITY:

Custodians:
Navy - EC

GSA - 7FXE

Preparing Activity:

DLA-CC

Project 5925-0365