

[METRIC]
A-A-55491A
January 28, 2005

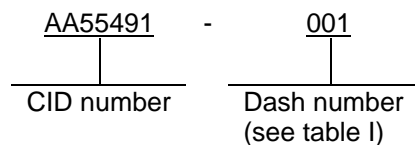
SUPERSEDING
A-A-55491
December 21, 1993

COMMERCIAL ITEM DESCRIPTION

CIRCUIT BREAKER, AUTOMOTIVE TYPE, SEALED

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 an automotive type circuit breaker. Circuit breakers covered by this CID are intended for commercial/industrial applications.
2. **CLASSIFICATION/PART OR IDENTIFICATION NUMBER (PIN).** This CID uses a classification system which is included in the Part Identification Number (PIN) as shown in the following example (see 7.1).

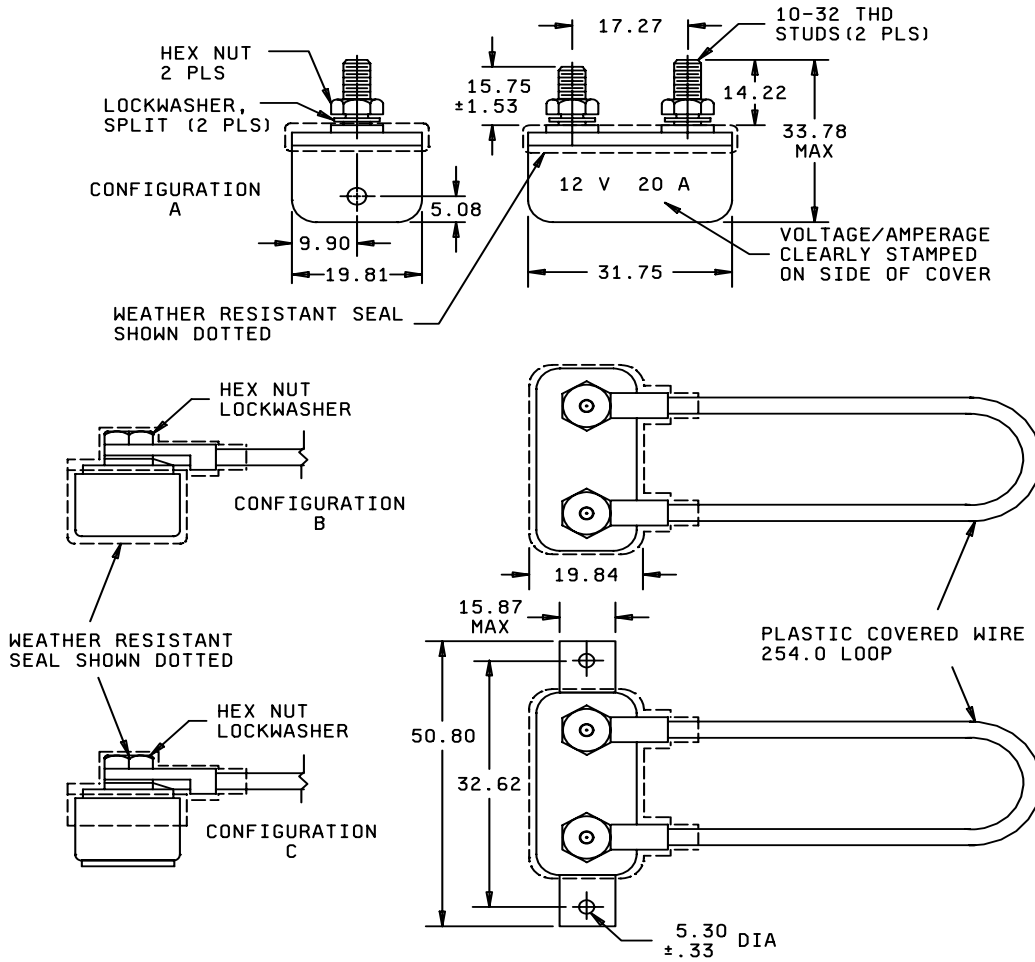


3. SALIENT CHARACTERISTICS.

- 3.1 **Interface and physical dimensions.** Automotive circuit breakers supplied to this CID shall be as specified herein (see figure 1) and shall meet the requirements of SAE J553 for automotive type circuit breakers.
- 3.2 **Ampere rating.** The ampere rating shall be as specified in table I.
- 3.3 **Voltage rating.** The voltage rating shall be 12 V dc.
- 3.4 **Termination style.** Termination shall be either a 254.0 millimeters (10 inches) wire loop or #10-32 stud terminals supplied with lock washers and hex nuts as specified in table I.
- 3.5 **Mounting bracket.** Circuit breakers, which include a mounting bracket, shall be as specified in table I.
- 3.6 **Seal.** These circuit breakers shall be provided with a weather-resistant seal (see figure 1).
- 3.7 **Marking.** Circuit breakers supplied to this CID shall be marked with the manufacturer's (MFR's) standard commercial PIN. The part number marked on the unit pack shall be the CID PIN.

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAT, Post Office Box 3990, Columbus, OH 43218-3990, or email to SupportTeam.CSA@dsc.dla.mil. Since contact information can change you may want to verify the currency of the address information using the ASSIST Online database at <http://assist.daps.dla.mil>.

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mm	Inches	mm	Inches
0.33	.013	17.27	.680
1.53	.060	19.81	.780
5.08	.200	19.84	.781
5.30	.208	31.75	1.250
9.90	.389	32.62	1.284
14.22	.559	33.78	1.330
15.75	.620	50.80	2.000
15.87	.625	254.0	10.00

NOTES:

1. Dimensions are in millimeters.
2. Unless otherwise specified, tolerance is ±0.13 millimeter (.005 inch).
3. The US government preferred system of measurement is the metric SI system. However, this item was originally designed using inch-pound units of measurement. In the event of conflict between the metric and inch-pound units, the inch-pound units shall take precedence.

FIGURE 1. Configuration and dimensions.

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TABLE I. Electrical characteristics.

AA55491-	Ampere rating	Wire loop size		#10-32 stud termination (Y=yes, N=no)	Mounting bracket (Y=yes, N=no)	Circuit breaker configuration
		length mm (inch)	gauge (AWG)			
001	4	N/A	N/A	Y	N	A
002	5	N/A	N/A	Y	N	A
003	6	N/A	N/A	Y	N	A
004	8	N/A	N/A	Y	N	A
005	10	N/A	N/A	Y	N	A
006	12	N/A	N/A	Y	N	A
007	15	N/A	N/A	Y	N	A
008	20	N/A	N/A	Y	N	A
009	25	N/A	N/A	Y	N	A
010	30	N/A	N/A	Y	N	A
011	40	N/A	N/A	Y	N	A
012	6	254.0 (10.00)	16	N	N	B
013	8	254.0 (10.00)	16	N	N	B
014	10	254.0 (10.00)	16	N	N	B
015	15	254.0 (10.00)	16	N	N	B
016	20	254.0 (10.00)	14	N	N	B
017	25	254.0 (10.00)	14	N	N	B
018	30	254.0 (10.00)	12	N	N	B
019	40	254.0 (10.00)	12	N	N	B
020	6	254.0 (10.00)	16	N	Y	C
021	8	254.0 (10.00)	16	N	Y	C
022	10	254.0 (10.00)	16	N	Y	C
023	15	254.0 (10.00)	16	N	Y	C
024	20	254.0 (10.00)	14	N	Y	C
025	25	254.0 (10.00)	14	N	Y	C
026	30	254.0 (10.00)	12	N	Y	C
027	40	254.0 (10.00)	12	N	Y	C

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.

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.

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7.2 Commercial and Government Entity (CAGE) code. For ordering purposes, inventory control, and submission of these automotive circuit breakers 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

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

SAE J553 - Circuit Breakers.

(Applications for copies should be addressed to the Society of Automotive Engineers, Incorporated, 400 Commonwealth Drive, Warrendale, PA 15096-0001.)

(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>
71400	Cooper Bussmann, Incorporated Automotive Products 7300 W. Wilson Avenue Chicago, IL 60706-4792 Phone number: (800) 323-1226 Facsimile number: (800) 544-2570 E-mail: fuseboc@buss.com Uniform Resource Locator (URL): www.bussauto.com

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7.6 Part number (P/N) supersession data. This CID supersedes the following manufacturers' 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 (see table I) AA55491-	MFR's CAGE 11873	CID dash number (see table I) AA55491-	MFR's CAGE 11873
	MFR's P/N <u>1/</u>		MFR's P/N <u>1/</u>
001	N/A	015	N/A
002	121B05-00M-01-HA	016	N/A
003	121B06-00M-01-HA	017	N/A
004	121B08-00M-01-HA	018	N/A
005	121B10-00M-01-HA	019	N/A
006	121B12-00M-01-HA	020	N/A
007	121B15-00M-01-HA	021	N/A
008	121B20-00M-01-HA	022	N/A
009	121B25-00M-01-HA	023	N/A
010	121B30-00M-01-HA	024	N/A
011	121B40-00M-01-HA	025	N/A
012	N/A	026	N/A
013	N/A	027	N/A
014	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 PIN shown. For actual part marking requirements see 3.5.

7.7 Government users. To acquire information on obtaining these circuit breakers from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CSA, Post Office Box 3990, Columbus, OH 43218-3990, or telephone (614) 692-7435.

MILITARY INTERESTS:

Custodians:
Navy - EC
DLA - CC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - FSS

Preparing activity:

DLA-CC

Project 5925-0395

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 <http://assist.daps.dla.mil>.