[METRIC]
A-A-59688/1A
March 18, 2002
SUPERSEDING
A-A-59688/1
July 13, 2001

COMMERCIAL ITEM DESCRIPTION

FUSE, CARTRIDGE, INSTRUMENT TYPE, 5 MM X 20 MM, QUICK-ACTING, HIGH-BREAKING CAPACITY

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

The complete requirements for procuring the fuses described herein shall consist of this document and the issue in effect of CID A-A-59688.

CLASSIFICATION. This CID uses a classification system, which is included in the Part Identification Number (PIN) as shown in the following example (see notes).

AA59688/01	-	001	A
CID number		Dash number (see table I)	Configuration (see figure 1)

SALIENT CHARACTERISTICS.

Interface and physical dimensions. Fuses supplied to this CID shall be as specified herein, and shall meet the requirements of IEC 127-2, part 2 (see figure 1).

Case or body. The case or body shall be an opaque tube.

Ferrules. The materials for the ferrules shall be nickel or silver plated brass.

Mounting. Configuration A (ferrule type) is intended to be used with an applicable fuseholder or fuse clip. Configuration B (axial leads) is intended to be directly soldered onto a printed wiring board.

Current rating. The ampere rating shall be as specified in table I.

Voltage rating. The voltage rating shall be 250 V ac maximum.

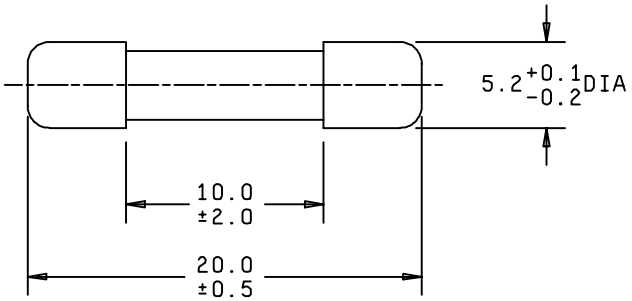
Voltage drop. Voltage drop shall be in accordance with table I.

Pre-arcing time/current characteristic. Pre-arcing time/current characteristic shall be as specified in table II.

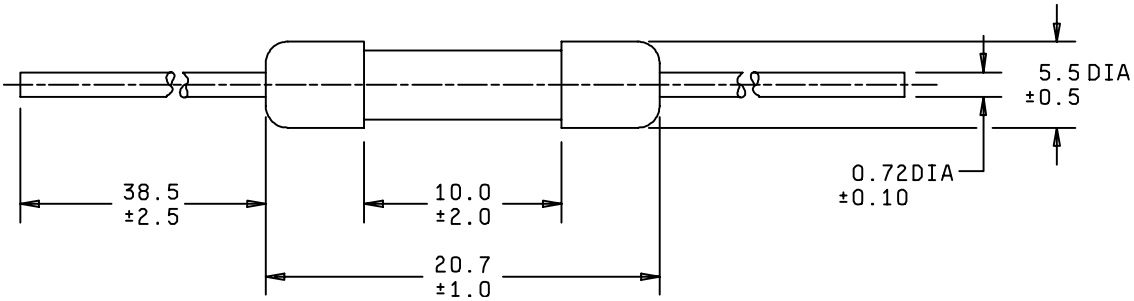
Breaking capacity. The breaking capacity shall be 1,500 amperes maximum at 250 V ac.

Endurance. Endurance shall be 100 cycles at 1.2 times the rated current followed by 1 hour at 1.5 times the rated current.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



CONFIGURATION A



CONFIGURATION B

mm	Inches	mm	Inches
0.10	.004	5.20	.205
0.20	.008	5.50	.217
0.50	.020	10.0	.394
0.72	.028	20.0	.787
1.00	.039	20.7	.815
2.00	.079	38.5	1.516
2.50	.098		

NOTES:

1. Dimensions are in millimeters.
2. Tolerance is ±0.13 mm (.005 inch), unless otherwise specified.

FIGURE 1. Interface and physical dimensions.

TABLE I. Characteristics.

CID dash number AA59688/01-	Configuration	Current rating (amperes)	Maximum voltage drop (mV)	Power dissipation (W) max.
001A	A	50 mA	10,000	1.6
001B	B			
002A	A	63 mA	8,800	
002B	B			
003A	A	80 mA	7,600	
003B	B			
004A	A	100 mA	7,000	
004B	B			
005A	A	125 mA	5,000	
005B	B			
006A	A	160 mA	4,300	
006B	B			
007A	A	200 mA	3,500	
007B	B			
008A	A	250 mA	2,800	2.5
008B	B			
009A	A	315 mA	2,500	
009B	B			
010A	A	400 mA	2,000	
010B	B			
011A	A	500 mA	1,800	
011B	B			
012A	A	630 mA	1,500	
012B	B			
013A	A	800 mA	1,200	
013B	B			
014A	A	1 A	1,000	
014B	B			
015A	A	1.25 A	800	4
015B	B			
016A	A	1.6 A	600	
016B	B			

TABLE I. Characteristics - Continued.

CID dash number AA59688/01-	Configuration	Current rating (amperes)	Maximum voltage drop (mV)	Power dissipation (W) max.
017A	A	2 A	500	4
017B	B			
018A	A	2.5 A	400	
018B	B			
019A	A	3.15 A	350	
019B	B			
020A	A	4 A	300	
020B	B			
021A	A	5 A	250	
021B	B			
022A	A	6.3 A	200	
022B	B			

TABLE II. Pre-arcing time/current characteristic (+25°C ±10°C).

Percent of current rating					
210%	275%		400%		1000%
Max.	Min.	Max.	Min.	Max.	Max.
30 min.	10 ms	3 s	3 ms	300 ms	20 ms

NOTES.

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

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.)

MFR's CAGE	MFR's name and address
0JR59	Wickmann USA, Incorporated 4100 Shirley Drive Atlanta, GA 30336-1906 Phone number (404) 699-7820 Facsimile number (404) 699-9176 E-mail service@wickmannusa.com Uniform Resource Locator (URL): www.wickmannusa.com
61935	Schurter, Incorporated 1016 Clegg Court Petaluma, CA 94954-1152 Phone number (707) 778-6311 Facsimile number (707) 778-6401 E-mail info@schurterinc.com URL: www.schurterinc.com
71400	Cooper Bussmann, Incorporated P. O. Box 14460 St. Louis, MO 63178-4460 Phone number (636) 394-2877 Facsimile number (800) 544-2570 E-mail fusebox@buss.com URL: www.bussmann.com
75915	Littelfuse Incorporated 800 E. Northwest Highway Des Plaines, IL 60016-3096 Phone number (847) 824-1188 Facsimile number (847) 391-0894 E-mail: electronics@littelfuse.com URL: www.littelfuse.com
92912	Bel Fuse Incorporated 206 Van Vorst Street Jersey City, NJ 07302-3096 Phone number (201) 432-0463 Facsimile number (201) 432-9542 E-mail: belfuse@belfuse.com URL: www.belfuse.com

Part number (P/N) supersession data. These CID part numbers 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 III. P/N supersession data.

CID dash number AA59688/01- (see table I)	MFR's P/N 1/				
	MFR CAGE 0JR59	MFR CAGE 61935	MFR CAGE 71400	MFR CAGE 75915	MFR CAGE 92912
001A	19194, 50mA	N/A	GDA-50mA	216.050	N/A
001B	19194, 50mA Pigtails	N/A	GDA-V-50mA	226.050	N/A
002A	19194, 63mA	N/A	GDA-63mA	216.063	N/A
002B	19194, 63mA Pigtails	N/A	GDA-V-63mA	226.063	N/A
003A	19194, 80mA	N/A	GDA-80mA	216.080	N/A
003B	19194, 80mA Pigtails	N/A	GDA-V-80mA	226.080	N/A
004A	19194, 100mA	N/A	GDA-100mA	216.100	5HF100
004B	19194, 100mA Pigtails	N/A	GDA-V-100mA	226.100	5HFP100
005A	19194, 125mA	N/A	GDA-125mA	216.125	5HF125
005B	19194, 125mA Pigtails	N/A	GDA-V-125mA	226.125	5HFP125
006A	19194, 160mA	N/A	GDA-160mA	216.160	5HF160
006B	19194, 160mA Pigtails	N/A	GDA-V-160mA	226.160	5HFP160
007A	19194, 200mA	N/A	GDA-200mA	216.200	5HF200
007B	19194, 200mA Pigtails	N/A	GDA-V-200mA	226.200	5HFP200
008A	19194, 250mA	N/A	GDA-250mA	216.250	5HF250
008B	19194, 250mA Pigtails	N/A	GDA-V-250mA	226.250	5HFP250
009A	19194, 315mA	N/A	GDA-315mA	216.315	5HF315
009B	19194, 315mA Pigtails	N/A	GDA-V-315mA	226.315	5HFP315
010A	19194, 400mA	N/A	GDA-400mA	216.400	5HF400
010B	19194, 400mA Pigtails	N/A	GDA-V-400mA	226.400	5HFP400
011A	19194, 500mA	001.1001	GDA-500mA	216.500	5HF500
011B	19194, 500mA Pigtails	001.1001.1	GDA-V-500mA	226.500	5HFP500

See footnote at end of table.

TABLE III. P/N supersession data - continued.

CID dash number AA59688/01- (see table I)	MFR's P/N 1/				
	MFR CAGE 0JR59	MFR CAGE 61935	MFR CAGE 71400	MFR CAGE 75915	MFR CAGE 92912
012A	19194, 630mA	001.1002	GDA-630mA	216.630	5HF630
012B	19194, 630mA Pigtails	001.1002.1	GDA-V-630mA	226.630	5HFP630
013A	19194, 800mA	001.1003	GDA-800mA	216.800	5HF800
013B	19194, 800mA Pigtails	001.1003.1	GDA-V-800mA	226.800	5HFP800
014A	19194, 1A	001.1004	GDA-1A	216.001	5HF1
014B	19194, 1A Pigtails	001.1004.1	GDA-V-1A	226001	5HFP1
015A	19194, 1.25A	001.1005	GDA-1.25A	2161.25	5HF1.25
015B	19194, 1.25A Pigtails	001.1005.1	GDA-V-1.25A	2261.25	5HFP1.25
016A	19194, 1.6A	001.1006	GDA-1.6A	21601.6	5HF1.6
016B	19194, 1.6A Pigtails	001.1006.1	GDA-V-1.6A	22601.6	5HFP1.6
017A	19194, 2A	001.1007	GDA-2A	216002	5HF2
017B	19194, 2A Pigtails	001.1007.1	GDA-V-2A	226002	5HFP2
018A	19194, 2.5A	001.1008	GDA-2.5A	21602.5	5HF2.5
018B	19194, 2.5A Pigtails	001.1008.1	GDA-V-2.5A	22602.5	5HFP2.5
019A	19194, 3.15A	001.1009	GDA-3.15A	2163.15	5HF3.15
019B	19194, 3.15A Pigtails	001.1009.1	GDA-V-3.15A	2263.15	5HFP3.15
020A	19194, 4A	001.1010	GDA-4A	216004	5HF4
020B	19194, 4A Pigtails	001.1010.1	GDA-V-4A	226004	5HFP4
021A	19194, 5A	001.1011	GDA-5A	216005	5HF5
021B	19194, 5A Pigtails	001.1011.1	GDA-V-5A	226005	5HFP5
022A	19194, 6.3A	001.1012	GDA-6.3A	21606.3	5HF6.3
022B	19194, 6.3A Pigtails	001.1012.1	GDA-V-6.3A	21606.3	5HFP6.3

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 requirements see 3.2 of A-A-59688.

CID number supersession data. This CID supersedes Defense Supply Center, Columbus (DSCC) drawing 90030 and its dash numbers as shown.

TABLE IV. CID number supersession data.

CID dash number (see table I) AA59688/01-	Superseded DSCC drawing number 90030-	CID dash number (see table I) AA59688/01-	Superseded DSCC drawing number 90030-
001A	001A	012A	012A
001B	001B	012A	012B
002A	002A	013A	013A
002B	002B	013B	013B
003A	003A	014A	014A
003B	003B	014B	014B
004A	004A	015A	015A
004B	004B	015B	015B
005A	005A	016A	016A
005B	005B	016B	016B
006A	006A	017A	017A
006B	006B	017B	017B
007A	007A	018A	018A
007B	007B	018B	018B
008A	008A	019A	019A
008B	008B	019B	019B
009A	009A	020A	020A
009B	009B	020B	020B
010A	010A	021A	021A
010B	010B	021B	021B
011A	011A	022A	022A
011B	011B	022B	022B

MILITARY INTERESTS:

Custodians:
Navy - EC

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing activity:

DLA-CC

Project 5920-0759-01