

INCH-POUND

MIL-DTL-5423/14E
w/Amendment 1
16 January 2004
SUPERSEDING
MIL-DTL-5423/14E
24 May 2002

DETAIL SPECIFICATION SHEET

BOOT, DUST AND WATER SEAL, TYPE D (FOR LEVER
OPERATED CIRCUIT BREAKERS), STYLE 2 (PANEL MOUNTED
COMPLETE WITH MOUNTING FRAME)

This specification forms a part of MIL-DTL-5423, dated 5 April 2002, and is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-5423.

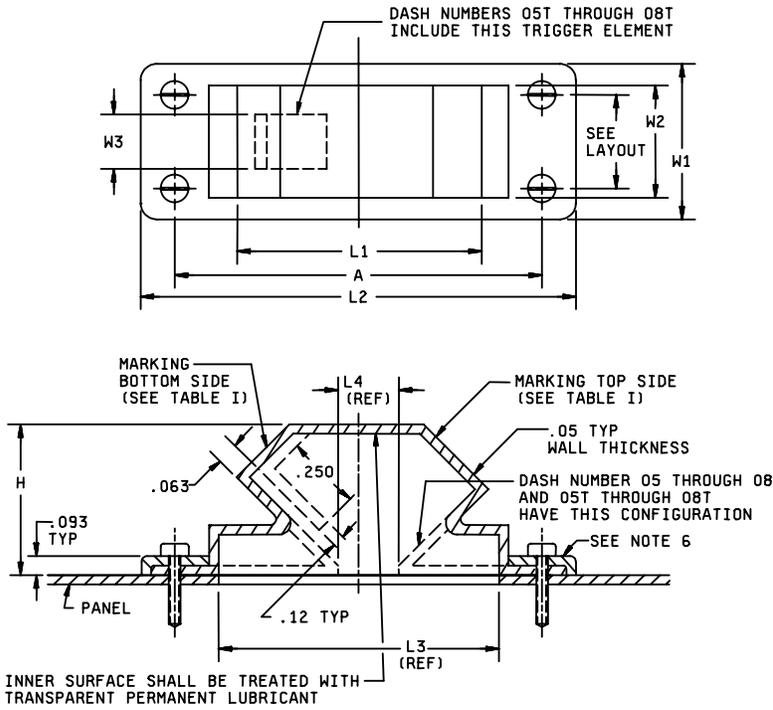


FIGURE 1. Dimensions and configuration boots type D, style 1.

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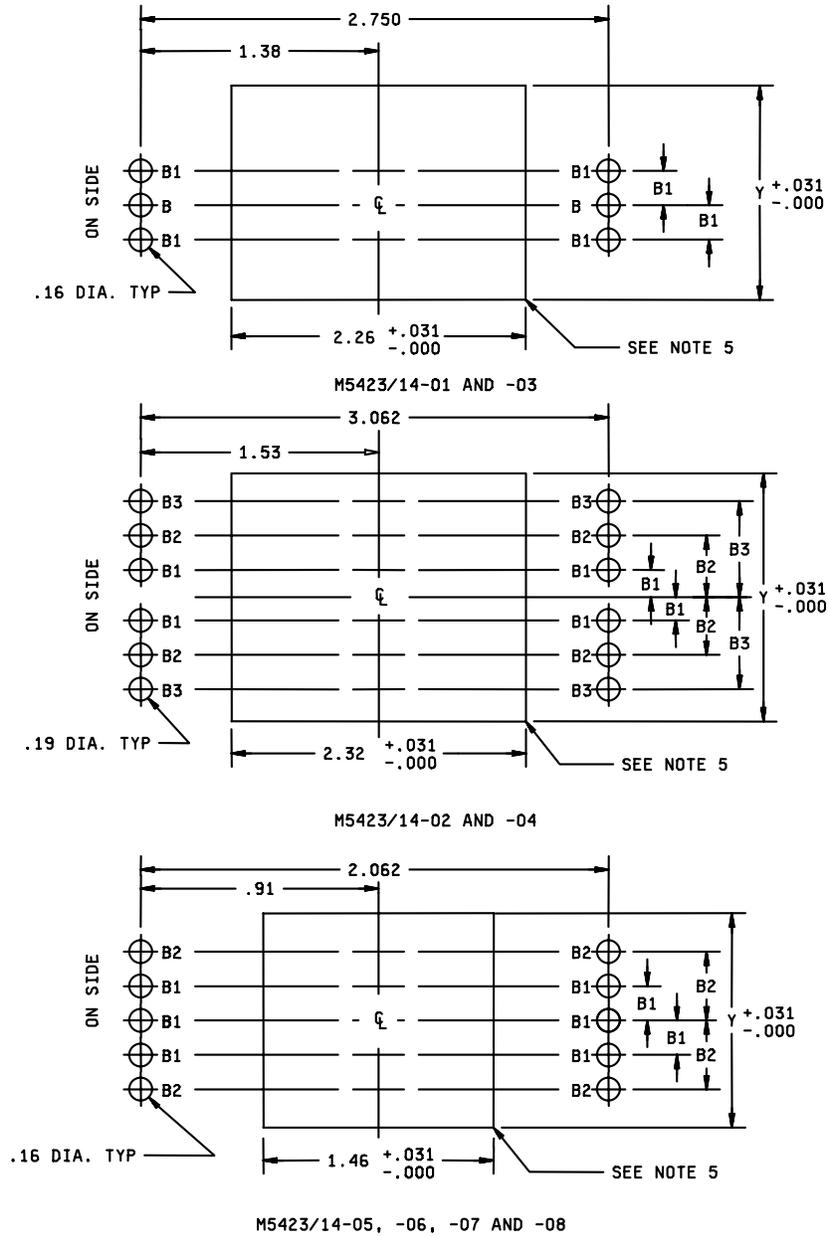
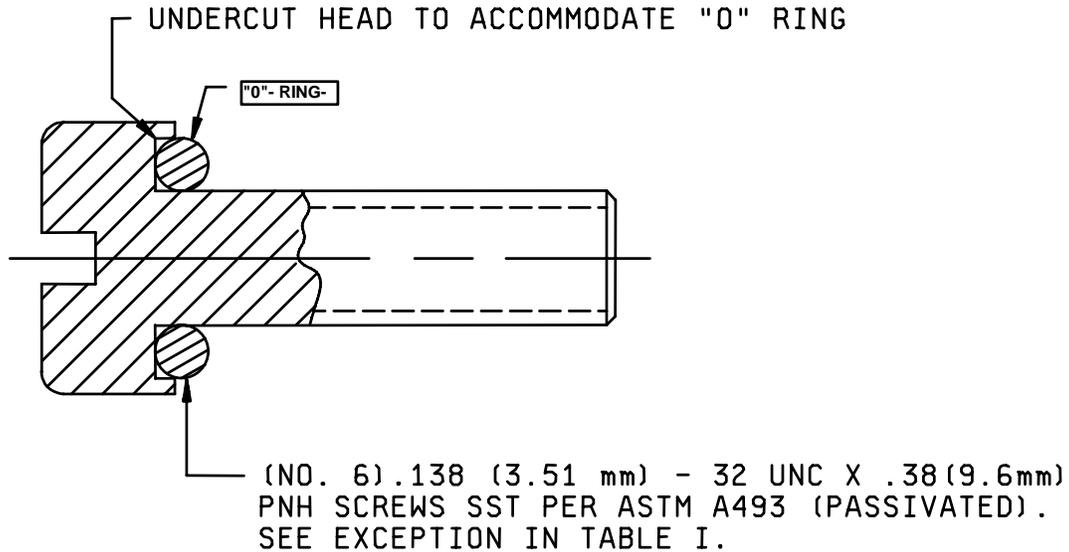


FIGURE 1. Dimensions and configuration boots type D, style 1 – Continued.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.031	0.79	.921	23.39	1.593	40.46	2.625	66.68
.05	1.3	1.000	25.40	1.781	45.24	2.656	67.46
.063	1.60	1.093	27.76	1.875	47.63	2.750	69.85
.093	2.36	1.109	28.17	2.000	50.80	2.906	73.81
.12	3.0	1.125	28.58	2.062	52.37	3.062	77.77
.16	4.1	1.343	34.11	2.125	53.98	3.093	78.56
.19	4.8	1.375	34.93	2.218	56.34	3.156	80.16
.250	6.35	1.38	35.1	2.25	57.2	3.500	88.90
.375	9.53	1.44	36.6	2.26	57.4	3.625	92.08
.843	21.41	1.46	37.1	2.31	58.7	3.656	92.86
.875	22.23	1.500	38.10	2.32	58.9	3.718	94.45
.91	23.1	1.53	38.9	2.343	59.51	3.937	100.11
						4.312	109.53
						4.812	122.22

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.02 (.51 mm) for two place decimals and ± 0.031 (.79 mm) for three place decimals.
4. The number of mounting screws shall be supplied as indicated.
5. Edges shall be smooth and free from burrs.
6. Alternative base metals and protective finishes, as approved by the qualifying activity, may be utilized for frame materials.

FIGURE 1. Dimensions and configuration boots type D, style 1 – Continued.

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REQUIREMENTS

Dimensions and configuration: See figure 1.

Silicon rubber: Grade 50, transparent.

Splashproof: In accordance with MIL-STD-108, table I.

Endurance (with applicable circuit breaker): 10,000 operations, see MIL-DTL-5423. Minute cracks after life test, which do not permit leakage, shall not be cause for rejection.

Part or Identifying Number (PIN): See tables I and II.

Table I. Part or identifying numbers (PIN).

PIN's <u>1/</u>		Dimensions $\pm.031$								
M5423/14-		A	L1	L2	W1	W2	H	L3	L4	W3
01		2.750	2.125	3.937	1.500	1.093	1.109	2.25	None	None
02		3.062	2.000	3.625	2.062	1.343	1.125	2.31	None	None
03		2.750	2.000	3.718	3.656	3.156	.921	2.25	None	None
04		3.062	2.000	3.500	4.812	4.312	1.000	2.31	None	None
05	05T	2.062	1.875	2.625	1.375	.843	.875	None	1.44	.375
06	06T	2.062	1.875	2.656	2.218	1.593	.875	None	1.44	1.00
07	07T	2.062	1.875	2.656	2.906	2.343	.875	None	1.44	1.00
08	08T	2.062	1.781	2.656	3.718	3.093	.875	None	1.44	1.00

1/ M5423/14-05T through -08T includes a trigger element.

Table II. Mounting and hardware information.

Mounting holes <u>1/</u>								Panel cutout	
PIN's <u>1/</u>	Number of screws	Location				Markings		Y	
		B	B1	B2	B3	Top side	Bottom side		
01	2	yes	none	none	none	ON	none	1.00 (25.4)	
02	4 <u>2/</u>	none	.500 (12.70)	none	none	none		1.25 (31.8)	
03	6	yes	1.031 (26.19)	none	none	ON	none	3.06 (77.7)	
04	12	none	.500 (12.70)	1.000 (25.40)	2.000 (50.80)	ON	none	4.25 (108.0)	
05	05T	2	yes	none	none	ON	none	.76 (19.3)	
06	06T	4	none	.375 (9.53)	none	none	ON	none	1.53 (38.9)
07	07T	6	yes	.750 (19.05)	none	none	ON	none	2.28 (57.9)
08	08T	8	none	.375 (9.53)	1.125 (28.58)	none	ON	OFF	3.06 (77.7)

1/ M5423/14-05T through -08T includes a trigger element.

2/ Screws shall be 8-32 UNC X .38 long (9.6 mm), slotted pan head.

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Reference Documents

MIL-DTL-5423
MIL-STD-108

The margins of this specification are marked with vertical lines to indicate where modifications from this amendment were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Custodians:

Army - CR
Navy - AS
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5930-4659)

Review activities:

Army - AT, AV, CR4
Navy - CG, MC, SH
Air Force – 99

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