

DETAIL SPECIFICATION SHEET

FUSE BOXES, FEEDER DISTRIBUTION, SUBMERSIBLE,
(15 FEET), 125 VOLTS, ALTERNATING CURRENT, THREE PHASE BUSES,
SINGLE PHASE BRANCHES, 0-30 AMPERE MIDGET FUSES
SYMBOLS 646.1 AND 647.1

This specification 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 sheet and [MIL-DTL-24646](#).

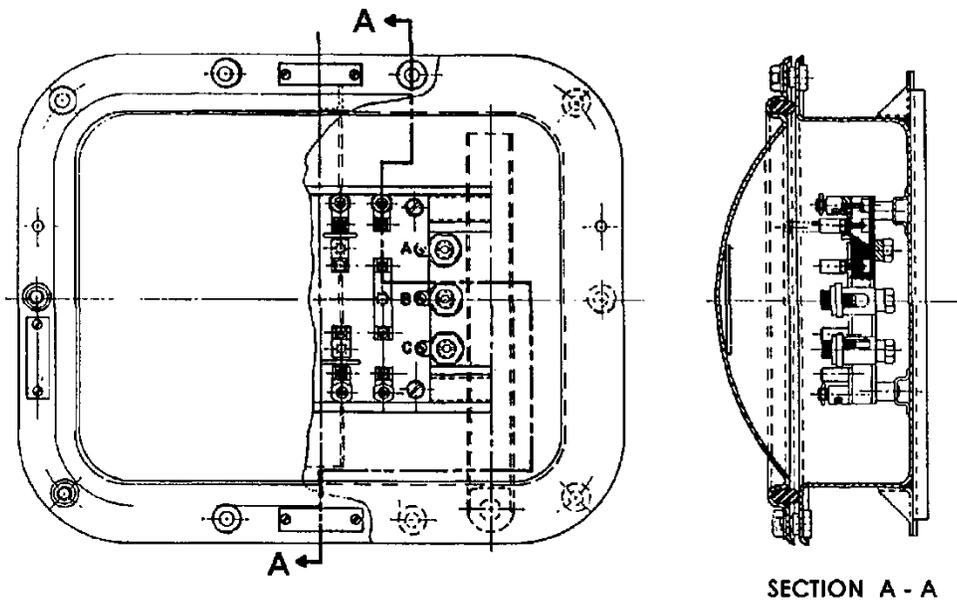


FIGURE 1. Fuse box assembly, typical. Item No. 01, 02
(Symbol 646.1 shown)

NOTES:

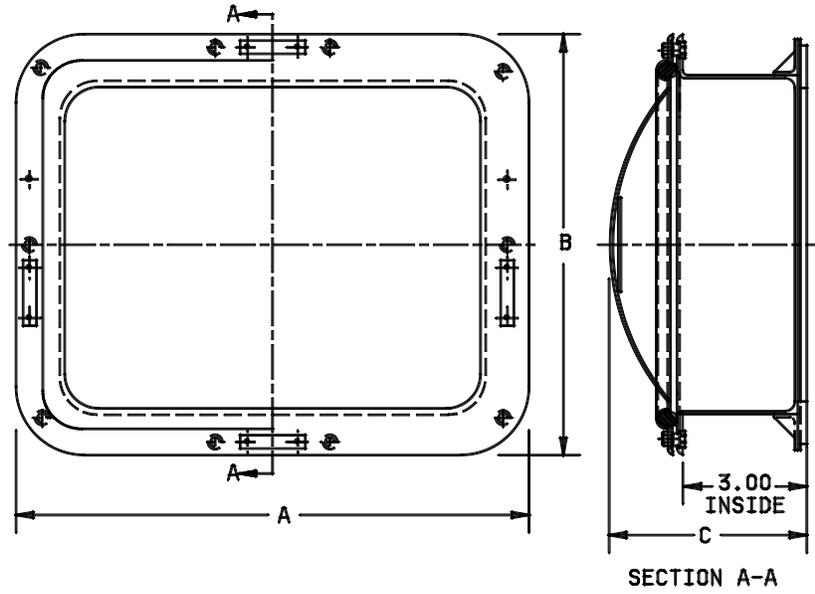
1. Dimensions are in inches.
2. Unless otherwise specified herein, tolerances shall be as follows:
Two place decimals - plus or minus 0.02.
Three place decimals - plus or minus 0.005.

AMSC N/A

FSC 5920



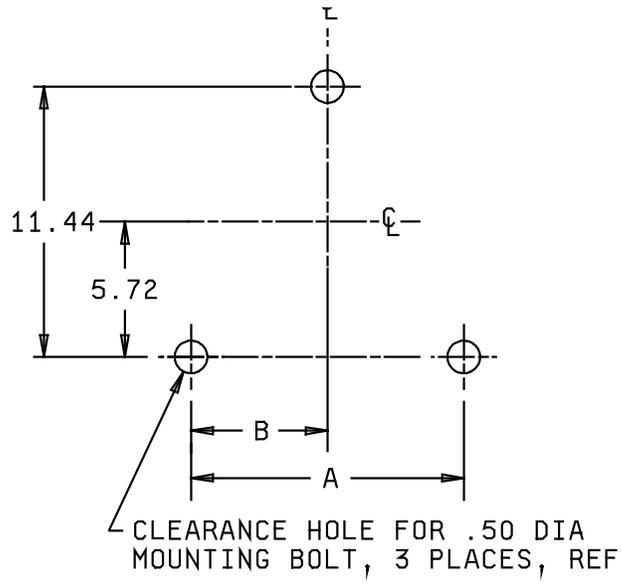
MIL-DTL-24646/8C



SYMBOL NO	DIMENSIONS (REF)		
	A	B	C
646.1	16.38	13.38	5.62
647.1	21.38	13.38	5.62

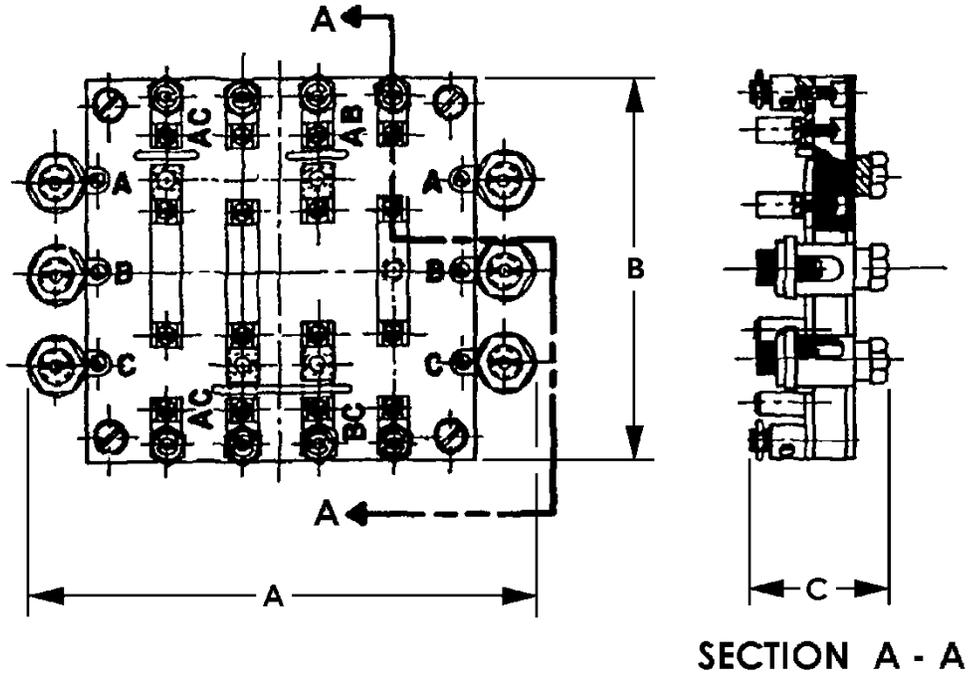
FIGURE 2. Enclosure, overall dimensions. Item No. 03, 04
(Symbols 646.1 and 647.1)

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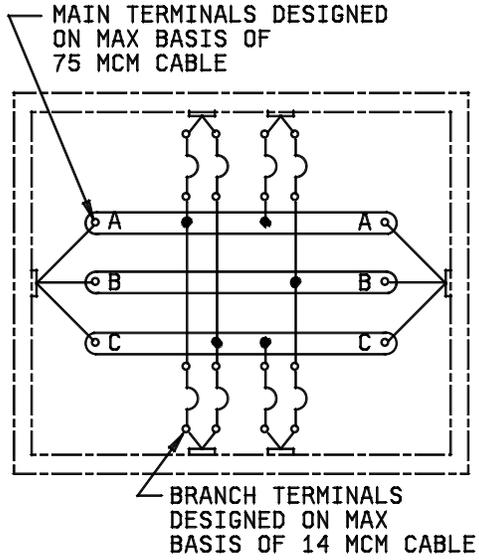
SYMBOL NO	DIMENSIONS (REF)	
	A	B
646.1	9.25	4.62
647.1	14.25	7.12

FIGURE 3. Mounting dimensions, ref.
(Symbols 646.1 and 647.1)

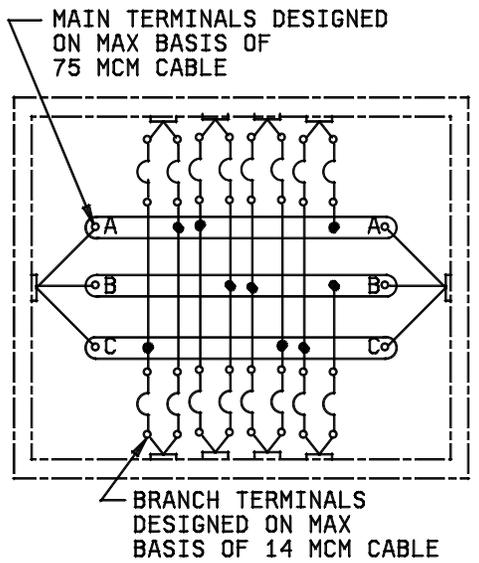


SYMBOL NO	DIMENSIONS (MAX)		
	A	B	C
646.1	7.75	5.75	2.30
647.1	12.63	5.75	2.30

FIGURE 4. Fuse block assembly, typical. Item No. 05, 06
(Symbols 646.1 and 647.1)



A. Four single-phase branches (Symbol 646.1)



B. Eight single-phase branches (Symbol 647.1)

FIGURE 5. Wiring diagrams. Item No. 07, 08

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REQUIREMENTS

Symbol numbers: See [table I](#).

Design:

Electrical rating: 125 volts alternating current, 0-30 ampere, 60 hertz.

Dimensions and configuration: See [figures 1, 2, 3 and 4](#).

Wiring diagrams: See [figure 5](#).

Mounting dimensions: See [figure 3](#).

Degree of enclosure: Submersible (15 feet).

Designation and marking: See [MIL-DTL-24646](#).

Parts: The parts listed in table II and specified in [MIL-DTL-24646](#) shall be used in the construction of the fuse boxes specified herein.

General information:

Military part numbers and general information are as specified in [table I](#).

TABLE I. Military part numbers and general information.

Military part no.	Symbol no.	Approx. Weight in pounds ^{1/}	No. of circuits	Feeder MCM	Branch MCM	Fuse size	Bus bar size	Supersedes	
								Drawing no.	Type
M24646/8-001	646.1	27.8	4	75	14	midget 0-30A	0.62 x 0.25	9000-S-74199	0-8A
M24646/8-002	647.1	33.3	8	75	14	midget 0-30A	0.62 x 0.25	9000-S-74202	0-24A

^{1/} The weight of these fuse boxes may vary + or - 15 percent.

TABLE II. Parts list.

Item no. ^{1/}	Description	QTY M /-		Material/ specification	Remarks
		001	002		
01	Fuse box assembly (sym 646.1)	-		MIL-DTL-24646/8	See figure 1
02	Fuse box assembly (sym 647.1)		-	MIL-DTL-24646/8	See figure 1
^{2/} 03	Enclosure (10 x 13 x 3)	1		M24142/6-004	See figure 2 Type A Mod
^{2/} 04	Enclosure (10 x 18 x 3)		1	M24142/6-006	See figure 2 Type A Mod
05	Fuse block assembly	1		MIL-DTL-24646/8	See figure 4
06	Fuse block assembly		1	MIL-DTL-24646/8	See figure 4
07	Wiring diagram	1		MIL-DTL-2036	See figure 5
08	Wiring diagram		1	MIL-DTL-2036	See figure 5
09	Fuse clip (midget 0-30A)	16	32	A-A-55507/1-04	N/A
10	Identification plate	1	1	Brass, ASTM B36/B36M B121/B121M	N/A
11	Information plate	4	8	Brass, ASTM B36/B36M B121/B121M	N/A

^{1/} Item numbers after the figure titles are the same as the item numbers shown in this table.

^{2/} Enclosure is same as [MIL-E-24142/6](#), except for inside depth which is 3 inches instead of 5 inches as shown.

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Referenced documents. In addition to [MIL-DTL-24646](#), this document references the following:

[MIL-DTL-2036](#) [MIL-E-24142/6](#) [ASTM B36/B36M](#) [ASTM B121/B121M](#)

The margins of this specification sheet are marked with vertical lines to indicate where changes from the previous issue 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 and relationship to the last previous issue.

Custodian:
Navy - SH
DLA - CC

Preparing activity:
DLA - CC

(Project 5920-2015-005)

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.dla.mil>.