

DETAIL SPECIFICATION SHEET

FUSE BOXES, FEEDER DISTRIBUTION, SUBMERSIBLE,
(15 FEET), 250 VOLTS, ALTERNATING CURRENT,
SINGLE PHASE BUSES, 0-30 AMPERE FUSES,
SYMBOLS 555.1, 556.1, 557.1, 558.1, AND 559.1

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](#).

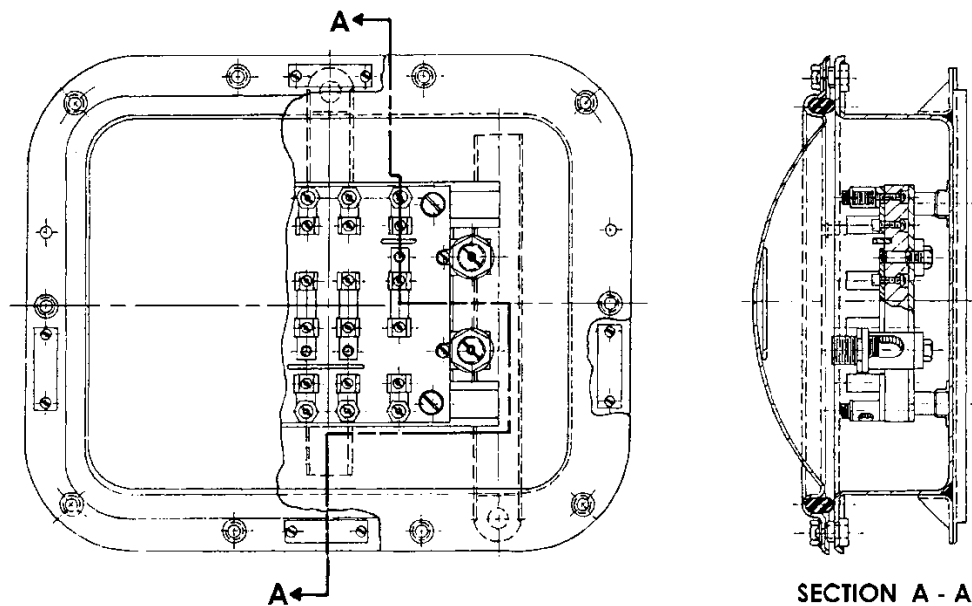


FIGURE 1. Fuse box assembly, typical. Item No. 01, 02, 03, 04, 05
(Symbol 556.1 shown)

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.

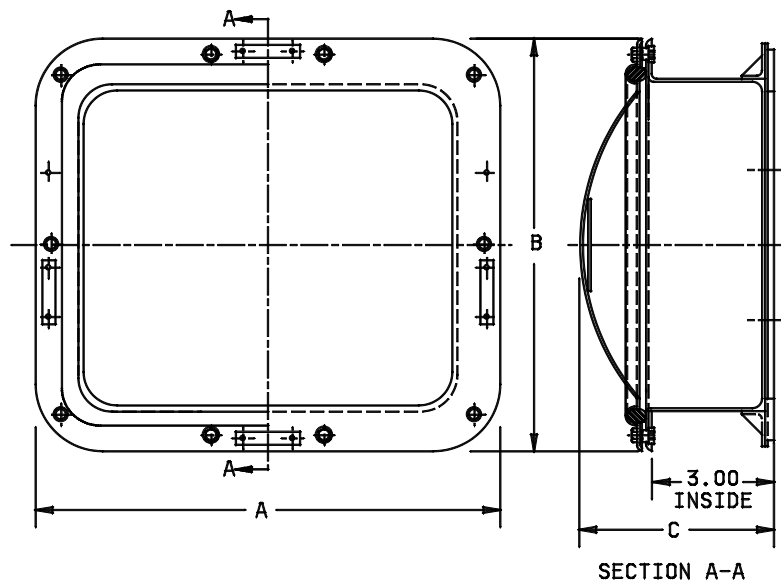
AMSC N/A

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

FSC 5920



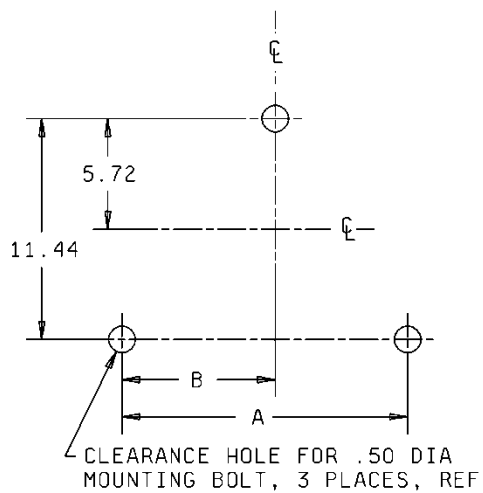
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Symbol no.	Dimensions (ref)		
	A	B	C
551.1	13.38	13.38	5.62
556.1	16.38	13.38	5.62
557.1	19.38	13.38	5.62
558.1	21.38	13.38	5.62
559.1	27.38	15.38	5.62

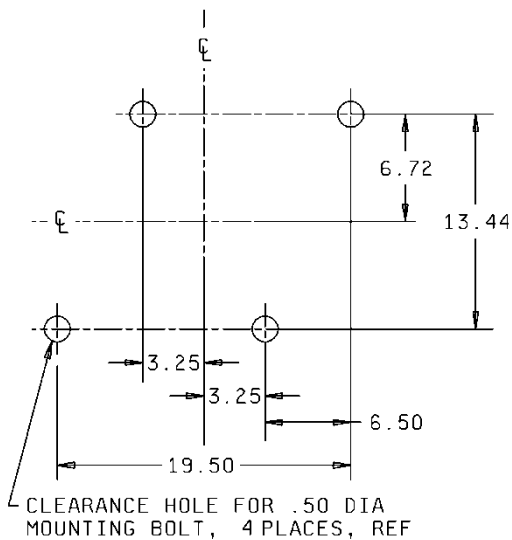
FIGURE 2. Enclosure, overall dimensions. Item No. 06, 07, 08, 09, 10
(Symbols 555.1, 556.1, 557.1, 558.1 and 559.1)

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Symbol No.	Dimensions	
	A	B
555.1	5.75	2.88
556.1	9.25	4.63
557.1	11.75	5.88
558.1	14.25	7.12

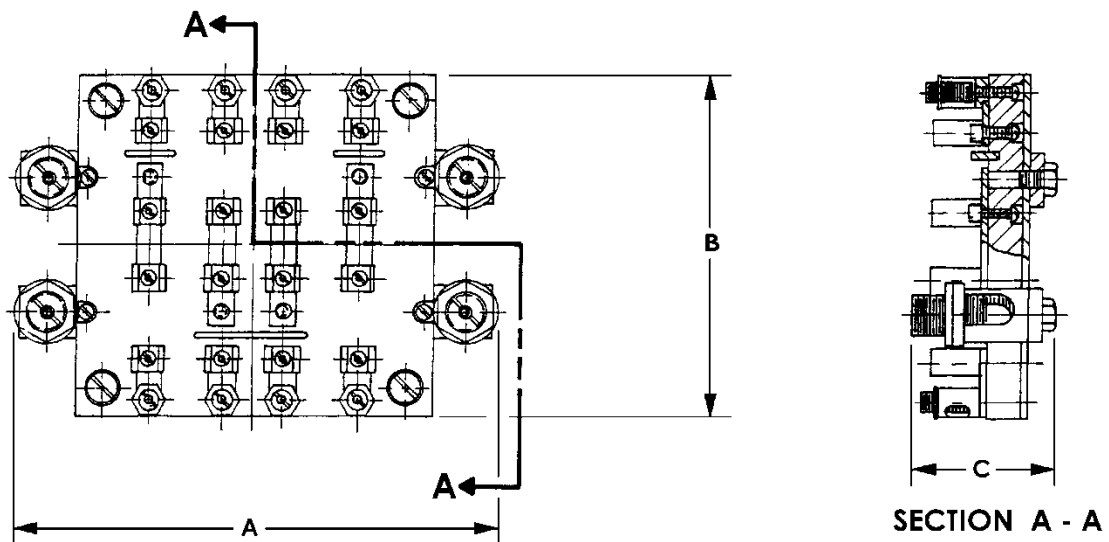
A. Symbols 555.1, 556.1, 557.1, and 558.1



B. Symbol 559.1

FIGURE 3. Mounting dimensions, ref.
(Symbols 555.1, 556.1, 557.1, 558.1 and 559.1)

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Symbol no.	Dimensions (max)		
	A	B	C
555.1	6.50	6.38	2.80
556.1	9.00	6.38	2.80
557.1	11.87	6.38	2.80
558.1	14.63	6.38	2.80
559.1	20.25	6.38	2.80

FIGURE 4. Fuse block assembly, typical. Item No. 11, 12, 13, 14, 15
(Symbols 555.1, 556.1, 557.1, 558.1 and 559.1)

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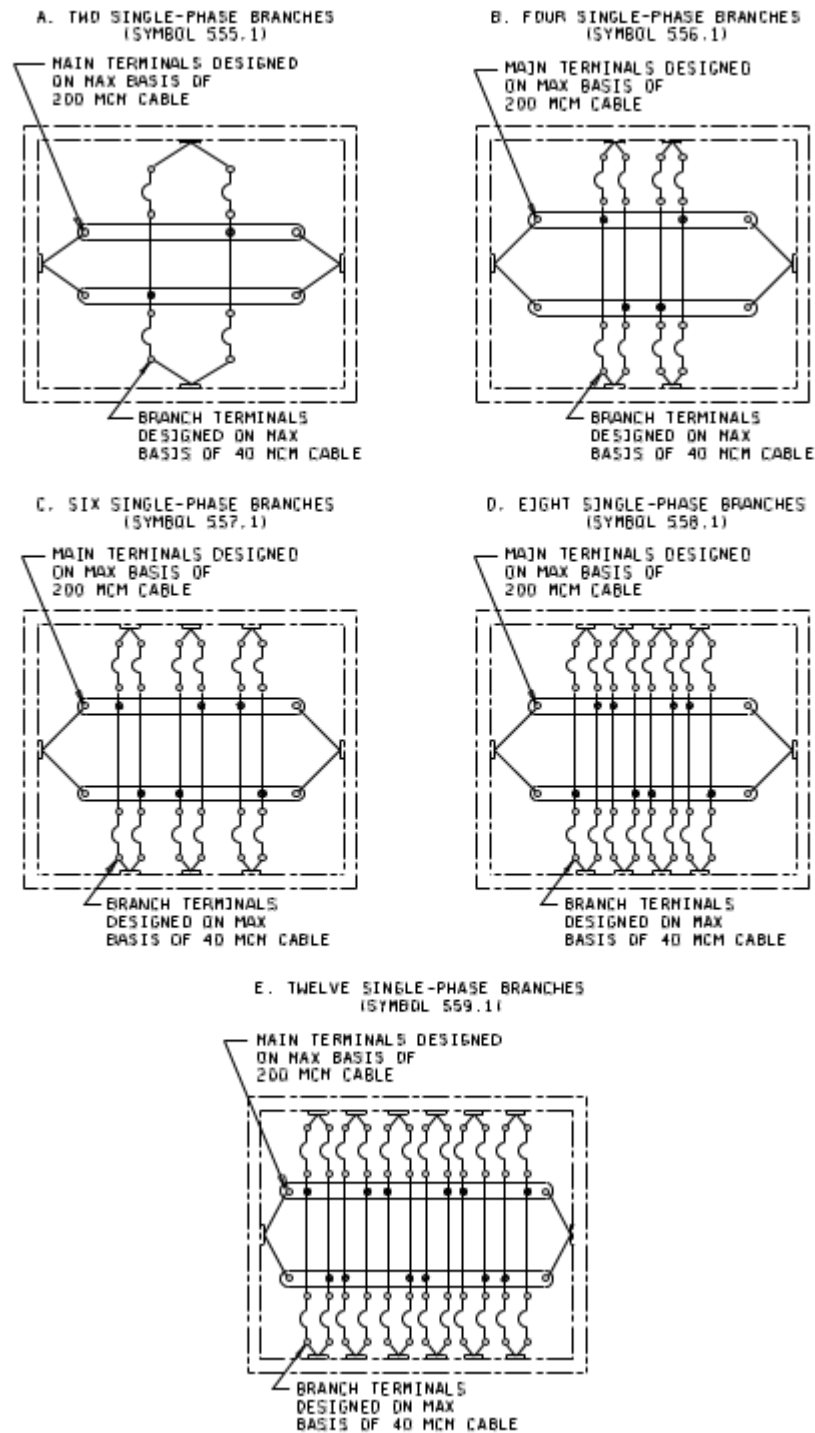


FIGURE 5. Wiring diagrams. 16, 17, 18, 19, 20

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REQUIREMENTS

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

Design:

Electrical rating: 250 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
M24646/9-001	555.1	20.5	2	200	40	0-30A	1.00 x 0.25	9000-S-74165	F-8A
M24646/9-002	556.1	26.2	4	200	40	0-30A	1.00 x 0.25	9000-S-74166	F-2A
M24646/9-003	557.1	31.0	6	200	40	0-30A	1.00 x 0.25	9000-S-74167	F-4A
M24646/9-004	558.1	35.0	8	200	40	0-30A	1.00 x 0.25	9000-S-74168	F-6A
M24646/9-005	559.1	54.8	12	200	40	0-30A	1.00 x 0.25	9000-S-74169	F-10A

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

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TABLE II. Parts list.

Item No. 1/	Description	QTY M /-					Material/ specification	Remarks
		001	002	003	004	005		
01	Fuse box assembly (sym 555.1)	-					MIL-DTL-24646/9	See figure 1
02	Fuse box assembly (sym 556.1)		-				MIL-DTL-24646/9	See figure 1
03	Fuse box assembly (sym 557.1)			-			MIL-DTL-24646/9	See figure 1
04	Fuse box assembly (sym 558.1)				-		MIL-DTL-24646/9	See figure 1
05	Fuse box assembly (sym 555.9)					-	MIL-DTL-24646/9	See figure 1
06 <u>2/</u>	Enclosure (10 x 10 x 3)	1					M24142/6-003	See figure 2 Type A mod
07 <u>2/</u>	Enclosure (10 x 13 x 3)		1				M24142/6-004	See figure 2 Type A mod
08 <u>2/</u> <u>3/</u>	Enclosure (10 x 16 x 3) (10 x 18 x 3)			1 1			M24142/6-005 M24142/6-006	See figure 2 Type A mod
09 <u>2/</u>	Enclosure (10 x 18 x 3)				1		M24142/6-006	See figure 2 Type A mod
10 <u>2/</u>	Enclosure (12 x 24 x 3)					1	M24142/6-010	See figure 2 Type A mod
11	Fuse block assembly	1					MIL-DTL-24646/9	See figure 4
12	Fuse block assembly		1				MIL-DTL-24646/9	See figure 4
13	Fuse block assembly			1			MIL-DTL-24646/9	See figure 4
14	Fuse block assembly				1		MIL-DTL-24646/9	See figure 4
15	Fuse block assembly					1	MIL-DTL-24646/9	See figure 4
16	Wiring diagram	1					MIL-DTL-2036	See figure 5
17	Wiring diagram		1				MIL-DTL-2036	See figure 5
18	Wiring diagram			1			MIL-DTL-2036	See figure 5
19	Wiring diagram				1		MIL-DTL-2036	See figure 5
20	Wiring diagram					1	MIL-DTL-2036	See figure 5
21	Fuse clip (0-30A)	8	16	24	32	48	A-A-55507/1-06	N/A
22	Identification plate	1	1	1	1	1	Brass, ASTM B36/B36M B121/B121M	N/A
23	Information plate	2	4	6	8	12	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 shown.

3/ Enclosure M24142/6-006 may be used as an alternate. Mounting channel spacing will be maintained same as enclosure M24142/6-005.

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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](#) [A-A-55507/1](#)

The margins of this specification are marked with vertical line to indicate modifications generated by this amendment. 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.

Custodian:
Navy - SH
DLA - CC

Preparing activity:
DLA - CC

(Project 5920-2024-026)

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/>.