

**AMERICAN NATIONAL
STANDARD**

ANSI/EIA-520DAAC-1990
APPROVED: May 18, 1990

EIA-520DAAC

EIA SPECIFICATION

Detail Specification on 4 Pole Toggle Switches

EIA-520DAAC

JUNE 1990

ELECTRONIC INDUSTRIES ASSOCIATION
ENGINEERING DEPARTMENT



Approved For Use In
The NECQ System



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(From EIA Standards Proposal No. 2195 formulated under the cognizance of the EIA P-13.2 Subcommittee on Toggle, Rocker, Paddle & Slide Switches.)

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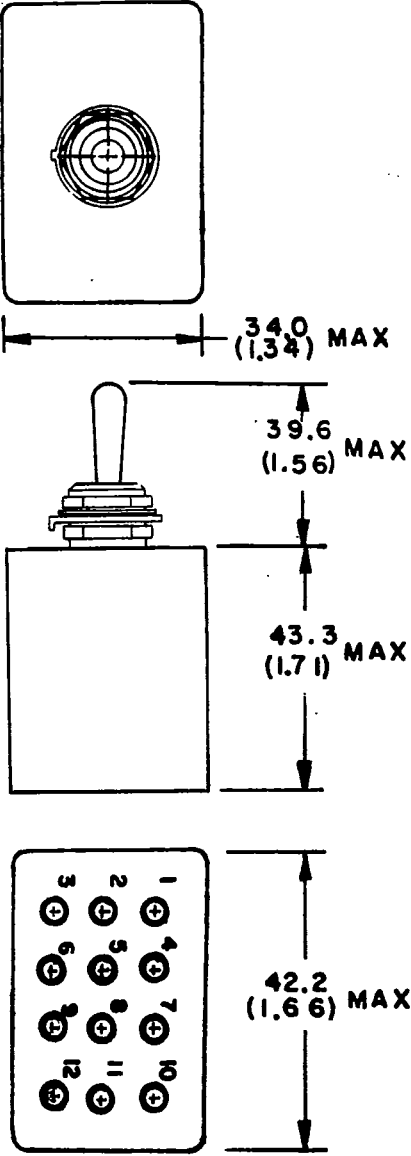
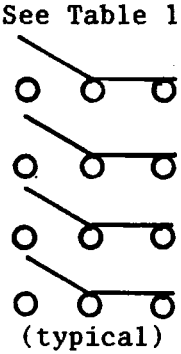
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NATIONAL STANDARDS ORGANIZATION Electronic Industries Association 2001 Eye Street N. W. Washington, D.C. 20006	Detail Specification Number EIA-520DAAC
Generic Specification Number Electronic components of assessed quality in accordance with EIA-5200000	Blank Detail Specification Number EIA-520DA00
Outline Drawing - MAXIMUM ENCLOSURE DIMENSIONS  NOTES: 1) See Fig. 1 thru 3 for detail dimensions. 2) Dimensions are denoted as follows: 0.0 = mm (0.000) = inch	Product Description - toggle switch - standard size - four pole - watertight seal - 20 A max. current rating - 277 V max. voltage rating - 2 toggle lever styles - 3 terminal styles Electrical Circuit See Table 1  Typical Construction - metal toggle lever - metal mounting bushing - plastic housing Application Electrical equipment in hostile environments

Information on the availability of components
 qualified to this specification is given in
 the Qualified Products List

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INTRODUCTION

The complete requirements for the switches described herein shall consist of this detail specification and the current issues of EIA-5200000 and EIA-520D000.

SECTION ONE - GENERAL DATA**1.0 General Data****1.1 Scope**

The standard size, four pole watertight toggle switches of certified quality covered by this detail specification

- a) mount in a 12.4 mm (.49 inch) diameter mounting hole.
- b) have a maximum rated voltage of 277 volts.
- c) have a maximum rated current of 20 amperes.

1.2 Type Designation

Switches covered by this detail specification shall be described by the following in the order shown:

- a) The number for this detail specification.
- b) The switching circuit per Table 1.
- c) The toggle lever locking combination, if any, per Table 1. Insert "X" if no locking combination is desired.
- d) The terminal style per Figure 3.

Example of Type Designation: EIA520DAAC01X1

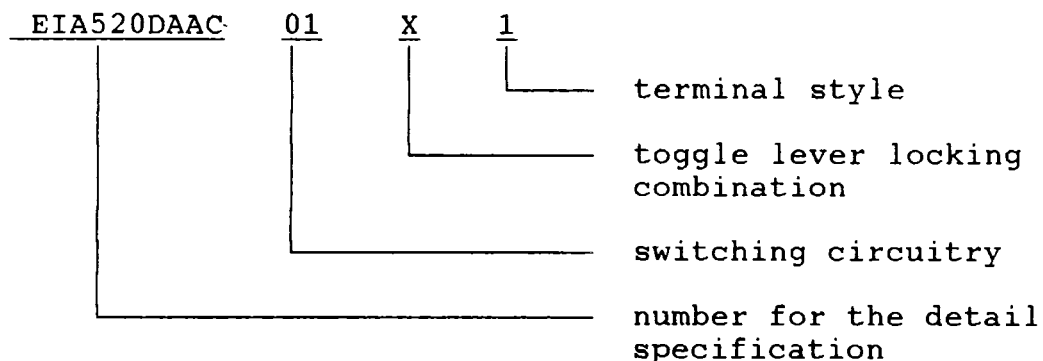


TABLE 1 - SWITCHING CIRCUIT

switching circuit number	available locking combination (see fig.2)	circuit made with toggle lever in			electrical rating code (table II)
		keyway side	center	opposite keyway side	
01	(all)	1-2, 4-5 7-8, 10-11	OFF	2-3, 5-6 8-9, 11-12	1
02	D,F,G	OFF	(none)	2-3, 5-6 8-9, 11-12	1
03	D,F,G	1-2, 4-5 7-8, 10-11	(none)	2-3, 5-6 8-9, 11-12	1
04	F	mom. OFF	(none)	2-3, 5-6 8-9, 11-12	2
05	E,F,K,L,M,N	mom.1-2,4-5 7-8, 10-11	OFF	2-3, 5-6 8-9, 11-12	2
06	F	mom.1-2,4-5 7-8, 10-11	(none)	OFF	2
07	E,L,N	mom.1-2,4-5 7-8, 10-11	OFF	mom. 2-3, 5-6 8-9, 11-12	2
08	F	mom.1-2,4-5 7-8, 10-11	(none)	2-3, 5-6 8-9, 11-12	2
10	(all)	1-2, 4-5 7-8, 10-11	1-2,5-6	2-3, 5-6 8-9, 11-12	1
21	E,F,K,M	[1]	OFF	2-3, 5-6 8-9, 11-12	1
31	E,F,K,M	[1]	1-2,4-5 7-8,10-11	2-3, 5-6 8-9, 11-12	1
50	E,F,K,L,M,N	mom.1-2,4-5 7-8, 10-11	1-2,5-6	2-3, 5-6 8-9, 11-12	2
51	E	[1]	1-2,4-5 7-8,10-11	mom. 2-3, 5-6 8-9, 11-12	2
61	E	mon.1-2,4-5 7-8, 10-11	OFF	[1]	2
70	E,L,N	mom.1-2,4-5 7-8, 10-11	1-2,5-6	mom. 2-3, 5-6 8-9, 11-12	2

NOTE: [1] No toggle lever position. This switching circuitry has two toggle lever positions with one position being the normal center position.

1.3 Marking

The marking of the switch and package shall be in accordance with the requirements of subclause 2.5 of the Generic Specification. The switches shall be marked with the following information:

- a) terminal identification per Figure 1.
- b) type designation per 1.2
- c) manufacturer's name
- d) date code per RS-476

1.4 Ordering Information

Orders for switches covered by this Specification shall contain the following information as a minimum:

- a) the applicable part number per subclause 1.2.
- b) "per EIA520DAAC dated (insert issue date)"

1.5 Certified Records of Released Lot - not required.

1.6 Safety Considerations

The user shall consider the suitability of the switch with regard to any safety requirements applicable to the equipment.

1.7 Common Features

