



INSTRUCTIONS

GEI-74670

INTRODUCTION

The Type SB-12 auxiliary switch is a multi-pole rotary switch with cam operated contacts. Several styles of bases are provided according to the mounting conditions. A typical switch is shown in Fig. 1.

The switch is made up of a series of individual stages, plus a common operating shaft, base and rear support. Each stage consists of an insulation barrier (1, Fig. 2), two moving contacts which are of the bridging type (2, Fig. 2), four stationary contacts (3, Fig. 2) and two cams (4, Fig. 2) each of which opens and closes its associated moving contact. Each moving contact with its stationary contacts is electrically insulated from the other pair in the same stage so that each stage can handle two individual circuits.

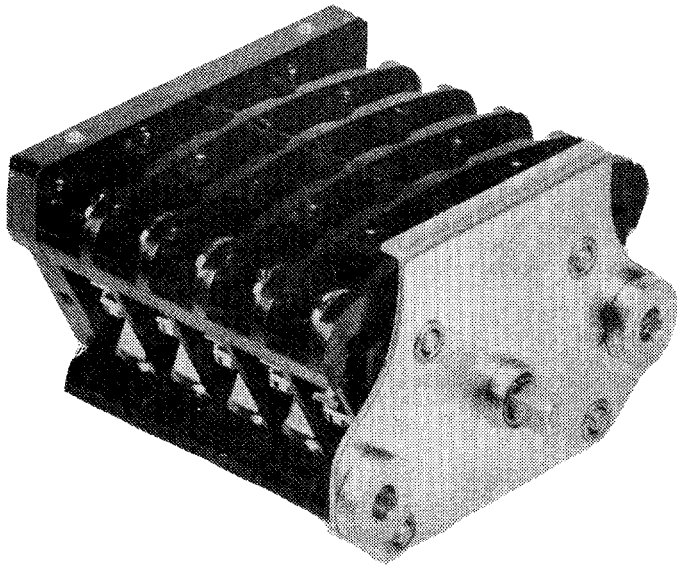


Fig. 1 Typical SB-12 Auxiliary Switch

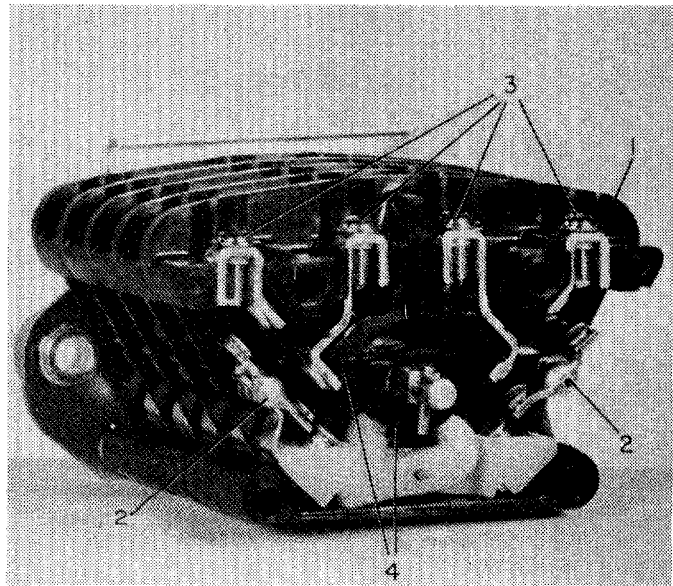


Fig. 2 Partially Dis-assembled SB-12 Auxiliary Switch

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the General Electric Company.

To the extent required the products described herein meet applicable ANSI, IEEE and NEMA standards; but no such assurance is given with respect to local codes and ordinances because they vary greatly.

APPLICATION

This switch is operated through a mechanism and crank by a circuit breaker and performs various auxiliary functions such as operating indicating devices, alarms, providing for interlocking etc.

RATING

The rating of the switch is 600 volts. Each contact will carry 20 amperes continuous and 250 amperes for three seconds. The interrupting rating of the contacts depends upon the type and voltage of the circuit as given in Table I.

TABLE I

Interrupting Ratings in Amperes (one contact)

| CIR VOLTAGE | NON INDUCTIVE | INDUCTIVE CIRCUIT |
|-------------|---------------|-------------------|
| VOLTS | AMPS | AMPS |
| 24 DC | 30.0 | 20.0 |
| 48 DC | 25.0 | 15.0 |
| 125 DC | 11.0 | 6.25 |
| 250 DC | 2.0 | 1.75 |
| 600 DC | .45 | .35 |
| 115 AC | 75.0 | 50.0 |
| 230 AC | 50.0 | 25.0 |
| 460 AC | 25.0 | 12.0 |

Average Trip Coil

CAM CHANGES

Changing the cam stacking in the field is not advisable. Instead the switch should be returned to the factory for change or a new switch with the desired cam arrangement should be ordered.

MAINTENANCE

When the apparatus with which the auxiliary switch is used is shut down the contacts of the switch should be checked. If they are slightly pitted or coated with oxide they should be cleaned with a fine file or burnishing tool.