



# AMERICAN ELECTRIC EQUIPMENT, INC.

P.O. BOX 710 BECKLEY, WV 25801

PHONE: 304-255-7438

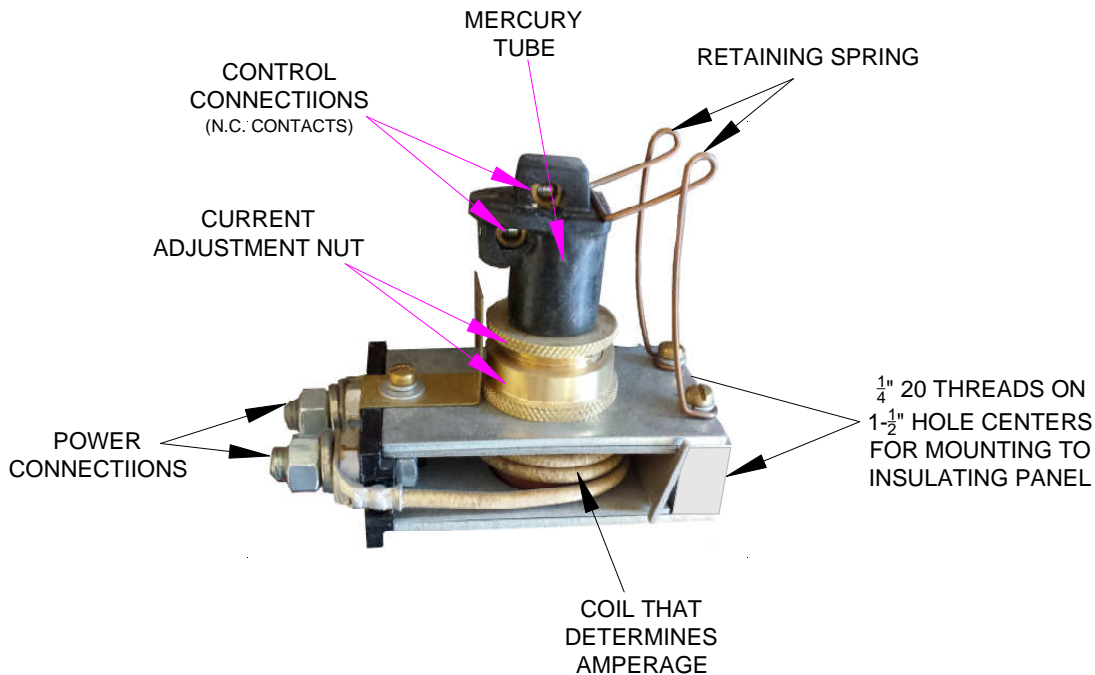
FAX: 304-255-7448

www.americanelectricequipment.com

Bulletin 3500

D.C. Mercury Tube Overload Relay

Document A-13889 April 17, 2014



## Features

- Overload ratings from 15 to 1000 amps D.C.
- Power voltage rating is 600 VDC
- Mining industry standard for decades.
- Adjustable trip setting.
- Mounts directly to insulating panel.

## Description

The A22969 is a D.C. overload relay. All of the functions on the relay are the result of the magnetic flux produced by current flowing through the multi-turn coil. The magnetic flux causes the N.C. contact in the mercury tube to open when the set current level is reached. High to low range adjustment is accomplished by turning the top adjustment nut while holding the bottom one still. The highest amperage setting is when the mercury tube is adjusted to the highest point out of the power coil. In turn the lowest amperage setting is when the mercury tube is adjusted to the lowest point into the power coil.

## Note:

### BULLETIN 3500 COMPLETE RELAY CONSISTS OF THE FOLLOWING:

- 1 - A22988-2 Relay Frame Assembly
- 1 - Overload Coil (As Selected Below)
- 1 - EP46-9X or EP46-26 Mercury Tube

OVERLOAD RELAY COILS	TURNS	TRIP SETTING	
		LOW	HIGH
31291	1	600	1000
A-22969-100	2	270	520
A-22969-70	3	170	320
A-22969-50	4	120	250
A-22969-40	5	100	200
A-22969-30	7	70	140
A-22969-20	10	40	100
A-22969-10	22	15	45

AMERICAN ELECTRIC EQUIPMENT, INC.  
P.O. BOX 710  
BECKLEY, WV 25801  
PHONE: 304-255-7438  
FAX: 304-255-7448