

Panasonic Electric Works Europe AG

Rudolf-Diesel-Ring 2, 83607 Holzkirchen, Germany  
Tel.: +49 (0) 8024-648-0 • Fax: +49 (0) 8024-648-111  
Internet: www.panasonic-electric-works.com

**PEWEU/ AEP 19012**

**TEST-REPORT**

**Article: AEP 19012**

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## 1. General:

Relay: AEP19012 (300A-type)  
Quantity: 2  
Customer: PEWEU/ internal

Load: 1000VDC / 300A / resistive load  
Switching cycle: 1sec on / 9sec off  
Temperature: 21°C

Relay No.	tested operations
1	4000
2	4000

## 2. Conditions

- Electrical inspection
- Contact assessment

## 3.Result

The relays performed 4000 operations at room temperature with a resistive load of 1000VDC, 300A without failure. The switching cycle was 1sec on and 9sec off.

The electrical analysis of all relays showed no abnormalities, all parameters were within the specifications given in the datasheet.

According to this result we can confirm that at 900VDC/300A an electrical life of minimum 4kops. is realistic.

The assessment of the contacts show signs of arcing and burning residue on the contacts. The contact volume was decreased to about 70% of initial value. Therefore, we would estimate a possible electrical life of minimum 6kops.

**Tested:** Burgmayr

**Checked:** Ciobotaru

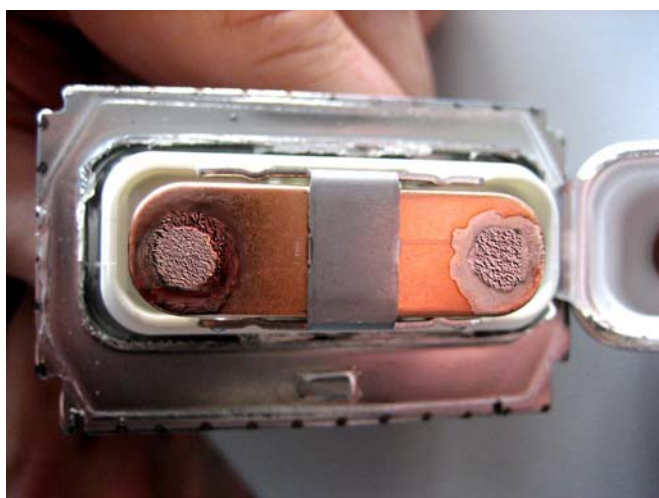
**Approved:** Dr.Volm

**Date:** 08.04.2009

### 3.1 Electrical inspection

Relay no.	Voltage drop: <math><0,15V@60A</math>	Voltage drop (after 2000 ops.): <math><0,15V@60A</math>
1	OK	OK
2	OK	OK

### 4. Contact assessment



Stationary contact



Movable contact / clear signs of arcing

**Tested:** Burgmayr

**Checked:** Ciobotaru

**Approved:** Dr.Volm

**Date:** 08.04.2009