

EARTH LEAKAGE RELAY POWER UP TRIP

WHAT FAULT

Ampcontrol has recently been made aware of a condition that causes the ELD V3 and ELV V2 relays to power up into a tripped state. The trip is related to the internal charge of the super-capacitor. The issue may cause delayed power up of equipment as a reset will be required if a trip occurs.

The cause of this trip is not a safety concern nor will it pose any risks to operations experiencing this condition. The trip was detected during the commissioning stage where the equipment was undergoing repetitive power cycles.

TRIP CONDITION CAUSE

The ELD V3 and ELV V2 relays have an internal Super-Capacitor used to hold up the power supply during a fault as per AS2081 requirements. When the relay loses power the charge slowly drops until the relay turns off.

The trip occurs when the relay is on the cusp of turning off and power is re-applied. The following timing is measured from a fully charged internal power supply, which is achieved after around 90 seconds of power being applied.

- After losing power, re-energising after 10-15 seconds will cause a trip.
- After losing power, re-energising before 10 seconds or after 20+ seconds, the relay will power up as per normal operation.

WHAT DO I NEED TO DO

To ensure this power up trip does not occur, please wait 20+ seconds before re-energising equipment. A firmware update will occur early in 2020 to resolve this abnormality.

FIND OUT MORE

For more information on this product, please contact Ampcontrol Customer Service on +61 1300 267 373 or customerservice@ampcontrolgroup.com or visit the Ampcontrol website: www.ampcontrolgroup.com

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