

Varistor/RC Snubber



Description

A snubber is a device used to suppress (“snub”) voltage transients in electrical systems. Installing RC snubbers is not specific for GridLight. For every system where large coils (e.g. contactors) are switched by a PLC system, the installation manual of the contactor prescribes usage of RC snubbers. These must be installed on every contactor in the system as close as possible to the contactor. It will increase the reliability of the system, and in a number of cases it will prevent damage to the system. RC snubbers should preferably be ordered from the supplier of the contactor. Usually, for every contactor there is a preferred RC snubber available.

Alternatively or as retrofit in streetlight cabinets with contactors without snubbers, Amplex offers a varistor that can be used instead. It should preferably be installed over the coil of each contactor (A1/A2). Alternatively it can be placed across the contacts of the relay in AmsCPU-IO og AmsSwitch. See installation on page 2.

Functionality

Topic	Comments
Type	Varistor
Usage	On contactor or AmsCPU-IO/AmsSwitch relays
Surge current	8kA, according to EN 61000-4-5 (8/20 μ s), 1 pulse 3kA, according to UL 1449 4th edition (8/20 μ s), 15 pulses
Energy dissipation W _{max} (2 ms)	151 J
Electric strength	> 2.5 kVrms
Insulation resistance	> 100M Ω



Technical Specifications

Operational specifications

Storage temp.	-40°C to +125°C
Operating temp.	-40°C to +105°C
Climatic category	40/105/56 (IEC 60068-1)
Weight	5 g

Standards and approvals

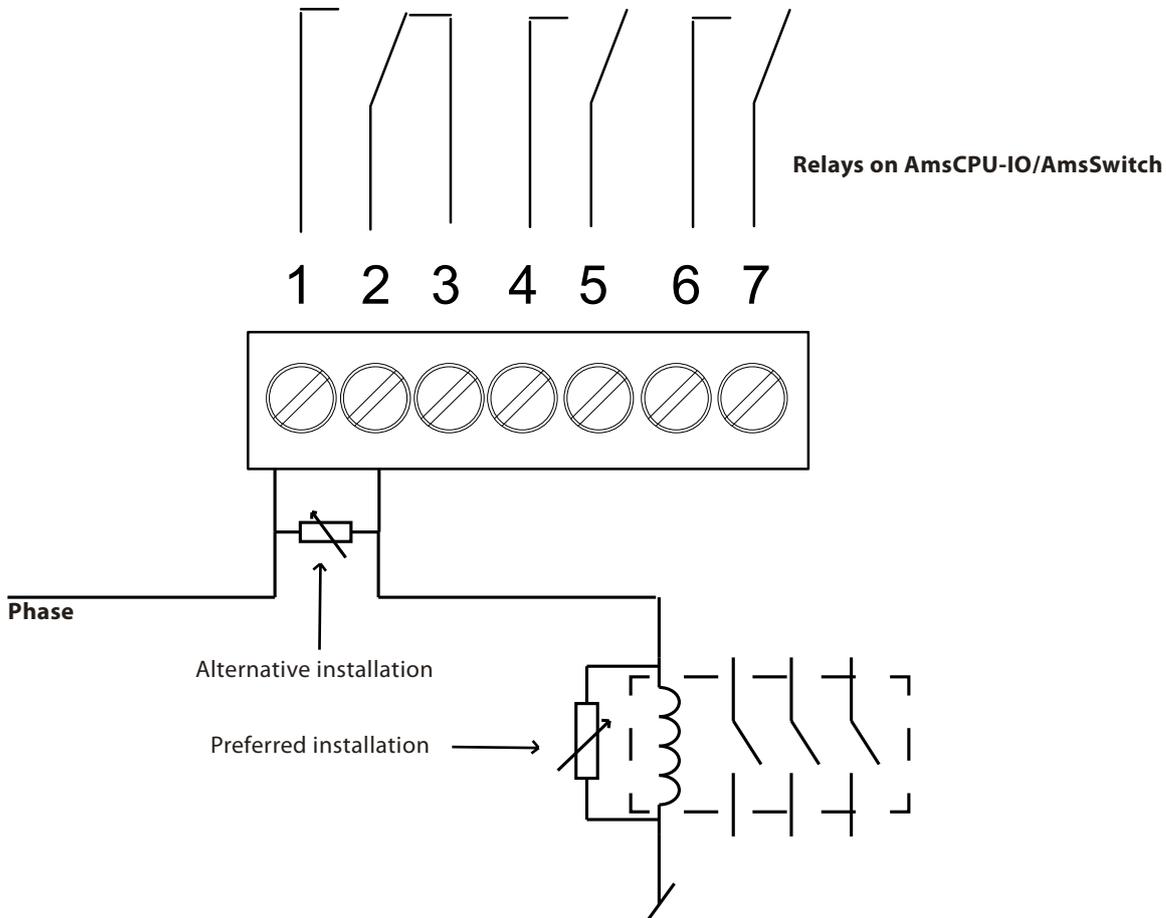
UL 1449 - Transient voltage surge suppressor
UL 1414 - Across-the-line component



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Data Sheet

Installation



Ordering Information

Product	Order number
Varistor	250-30-000
AmsCPU-IO	100-10-002
AmsSwitch	100-20-002