

Product introduction

OVR DIN rail SPD

Introduction

Over 80% of transient surges are caused by internal sources such as load switching and normal equipment operations. The installation of ABB OVR UL 1449 3rd Edition pluggable AC DIN rail SPDs will combat these surges and provide protection to valuable equipment and help keep an operation up and running. This new product range is approved as Type 4 recognized components and is usable in Type 2 applications. These products are of the same high quality as ABB UL 1449 2nd Edition devices, with improved safety as a result of additional testing required by the UL 1449 3rd Edition standard. Installation at branch panels, control panels and terminal equipment is recommended to provide the most complete protection.

Features & benefits

The OVR DIN rail SPDs utilize fast acting metal oxide varistor (MOV) technology to limit overvoltage to values compatible with the sensitive equipment connected to the network.

End of life indicator

This feature is standard on all ABB pluggable OVR DIN rail surge protectors. Each cartridge is equipped with a mechanical indicator which is green when the SPD is operational and protecting the system, and turns red when it has reached end of life. When this occurs, the cartridge must be replaced to guarantee protection.

Pluggable

The ability to efficiently maintain equipment is a key focus topic for industrial facilities. For this reason, ABB OVR DIN rail SPDs (excluding data line products) now utilize pluggable cartridges. Should one or more cartridges reach end of life, the electrical circuit does not have to be isolated, nor does the whole device have to be removed. Simply pull the dead cartridge from its housing and plug in a new one.

Remote indication (Optional - "TS" designation)

This function, achieved by wiring an integrated 3-point 1A volt-free contact, enables the operational state of the SPD to be monitored remotely.

Technical features of the remote indicator

- 1 NO (normally open) contact and 1 NC (normally closed) contact
- Min. load: 12 VDC - 10 mA
- Max. load: 250 VAC - 1 A
- Connection cross section: 1.5 mm² (16 AWG)

Specifications

- **UL 1449 3rd Edition - Type 4 Recognized Component**
- I_{max} - 15kA and 40kA
- Maximum continuous operating voltage (U_c) - 175, 320, 440, 550 and 660 VAC
- Configuration - 1L, 2L, 3L, N, 1N, 2N, 3N

ABB recommends a multi-level approach to surge protection. Combining OVR DIN rail SPDs with the OVR NE12 enclosed SPD will ensure the facility or operation is fully protected.



End-of-life indicator



NOTE: A surge protector that has reached end of life does not interrupt service, it simply disconnects itself, and the system is no longer protected.



NOTE: Pluggable surge protector cartridges are equipped with a "key" matched to each part number base, preventing incorrect replacements.

