

## Product introduction

### OVR NE12 enclosed SPD

#### Introduction

The OVR NE12 enclosed surge protective device (SPD) is the latest addition to ABB's extensive range of surge protection products. It is designed to be installed at the service entrance, thereby protecting the entire facility from the harmful effects of transient surges. These surges are the result of:

- Direct and indirect lightning strikes
- Power company load switching
- Upstream load switching at other facilities

**Extensive damage and expensive repairs can result from these types of disturbances if surge protection is not present.**

#### Features & benefits

The OVR NE12 is a multistage protector with fast acting varistor (MOV) and EMI/RFI noise attenuation filter to limit overvoltage to values compatible with the sensitive equipment connected to the network. In addition to the OVR NE12, ABB recommends adding OVR DIN rail SPDs at branch panels and equipment, creating a multi-level approach to protection.

##### General

- NEMA 12 enclosure
- All mode protection (L-L/L-N/L-G/N-G)
- Auxiliary contacts for remote monitoring
- Safety disconnect, fused
- LED power on/fault indicator
- Audible alarm

##### MOV technology

- 160kA or 320kA per phase
- Replaceable MOV blocks
- Visual and audible MOV replacement indication

##### Surge counter/diagnostic LCD display (optional)

- Count of surges 2kA and higher with time and date
- Visual diagnostic information

#### Applications

The OVR NE12 is suitable for protection for all manner of facilities and operations. It is designed with a NEMA Type 12 enclosure, and rated as a Type 2 SPD, requiring indoor installation on the load side of the main breaker or fuse.

Here are some examples of operations that would benefit from an OVR NE12 enclosed SPD:

- Critical power (hospitals, data centers, etc)
- Renewable energy
- Water/wastewater
- Communications
- Manufacturing
- Commercial

#### Specifications

- **Approvals: UL 1449 - 3rd Edition Listed, UL 1283, CSA 22.2 No. 8**
- Type 2 Surge Protective Device
- NEMA 12 enclosure
- Three service voltages (AC): 240/120V Split phase, 480V Delta and 480/277V Wye
- 160kA or 320kA per phase protection
- Short circuit current rating (SCCR): 200kA

**ABB recommends the installation of the OVR NE12 enclosed SPD wherever uptime is a critical element of a facility or operation.**

