

RELEASE NOTE

# OVRHT3D surge protective devices

## Reliable power protection for critical operations



ABB's OVRHT3D series of surge protective devices are ideal for use in sub-distribution and point-of-use applications such as UL 508 panel boards. They protect equipment against the damaging effects of power surges caused by lightning, utility or internal load switching. With individual thermally protected MOVs, the OVRHT3D takes itself offline safely without overcurrent protection.

### Product highlights

Dependable and effective surge protection



#### Enhanced protection

Individual thermally fused and protected MOVs deliver protection from voltage spikes to extend equipment life



#### UL Type 1 listed

UL 1449 Type 1 listing eliminates the need for overcurrent protection from a fuse or breaker



#### Compact design

Small footprint saves space for additional components



#### Rugged enclosure

Durable NEMA 4X rated enclosure suitable for indoor and outdoor use to protect unit from dirt and debris



#### Easy diagnostics

Green LED lights per phase provide easy indication of surge protection operational status



#### Contractor-friendly

Installation is quick and easy, saving time and labor cost

### Technical specifications

- Maximum surge current rating: 50 kA per phase
- UL Type designation: Type 1
- UL 1449 I-nominal rating: 20 kA
- UL 1449 short circuit current rating (SCCR): 200 kAIC
- Operating frequency: 50–60 Hz

| Part number    | Voltage   | Network type 1 SPD             |
|----------------|-----------|--------------------------------|
| OVRHT3D502401P | 240 V     | 1-phase, 2-wire + ground       |
| OVRHT3D501202S | 240/120 V | 2-phase, 3-wire + ground       |
| OVRHT3D501203Y | 208/120 V | 3-phase Wye, 4-wire + ground   |
| OVRHT3D502203Y | 380/220 V | 3-phase Wye, 4-wire + ground   |
| OVRHT3D502773Y | 480/277 V | 3-phase Wye, 4-wire + ground   |
| OVRHT3D502403D | 240 V     | 3-phase Delta, 3-wire + ground |
| OVRHT3D504803D | 480 V     | 3-phase Delta, 3-wire + ground |

\*See data sheet for additional voltages available for special order.

**Applications**

- Single point-of-use applications
- Panelboard 400 A and below
- Process automation systems
- HVAC systems/pumps

**Segments and channels**

- Commercial
- Industrial

**Target market**

- OEMs – Control panel builders
- Distributors

**Certifications and standards**

- UL 1449 5th Edition: 2021, cULus, (UL File: VZCA E316636)
- ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002
- NEC® 2020 Article 285
- REACH and California Prop 65

**Availability**

Order now via [empower flow](#)

**Related documents**

[OVRHT3D series data sheets](#)  
[OVRHT3D series installation instructions](#)  
[Surge Protective Devices UL US Catalog](#)  
[BuyLog: Section 5](#)

**Contacts**

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