

OVR DIN rail series

Surge protective devices

ABB is pleased to announce the release of the UL 1449 3rd Edition approved OVR DIN rail surge protective devices.

This new product range is approved as Type 4 recognized components, usable in Type 2 applications. These parts will bear the UR mark. These products are of the same high quality as ABB 2nd Edition devices, with improved safety as a result of additional testing required by UL 1449 3rd Edition.



Product Range

The new OVR DIN rail series includes devices ranging from 1-Pole to 3-Pole+neutral, capable of protecting AC networks up to 600V. Maximum discharge current ratings of 15 and 40kA are available. Remote monitoring is available with the "TS" option. All devices have replaceable cartridges for ease of maintenance.

1 Pole

Part number	Description
OVRT215150PU	OVR SPD 15kA 175V P 3rd Ed
OVRT215320PU	OVR SPD 15kA 320V P 3rd Ed
OVRT240150PU	OVR SPD 40kA 175V P 3rd Ed
OVRT240150PTSU	OVR SPD 40kA 175V P TS 3rd Ed
OVRT240320PU	OVR SPD 40kA 320V P 3rd Ed
OVRT240320PTSU	OVR SPD 40kA 320V P TS 3rd Ed
OVRT240440PTSU	OVR SPD 40kA 440V P TS 3rd Ed
OVRT240550PTSU	OVR SPD 40kA 550V P TS 3rd Ed
OVRT240660PTSU	OVR SPD 40kA 660V P TS 3rd Ed
OVRT270NPU	OVR SPD 70kA Neutral P 3rd Ed

2 Pole

Part number	Description
OVRT22L15150PU	OVR SPD 2P 15kA 175V P 3rd Ed
OVRT22L15320PU	OVR SPD 2P 15kA 320V P 3rd Ed
OVRT22L40150PTSU	OVR SPD 2P 40kA 175V P TS 3rd Ed
OVRT22L40320PTSU	OVR SPD 2P 40kA 320V P TS 3rd Ed

3 Pole

Part number	Description
OVRT23L15150PU	OVR SPD 3P 15kA 175V P 3rd Ed
OVRT23L15320PU	OVR SPD 3P 15kA 320V P 3rd Ed
OVRT23L40150PTSU	OVR SPD 3P 40kA 175V P TS 3rd Ed
OVRT23L40320PTSU	OVR SPD 3P 40kA 320V P TS 3rd Ed
OVRT23L40440PTSU	OVR SPD 3P 40kA 440V P TS 3rd Ed
OVRT23L40550PTSU	OVR SPD 3P 40kA 550V P TS 3rd Ed

1 Pole + Neutral

Part number	Description
OVRT21N15150PU	OVR SPD 1P+N 15kA 175V P 3rd Ed
OVRT21N15320PU	OVR SPD 1P+N 15kA 320V P 3rd Ed
OVRT21N40150PTSU	OVR SPD 1P+N 40kA 175V P TS 3rd Ed
OVRT21N40320PTSU	OVR SPD 1P+N 40kA 320V P TS 3rd Ed
OVRT21N40440PTSU	OVR SPD 1P+N 40kA 440V P TS 3rd Ed
OVRT21N40550PTSU	OVR SPD 1P+N 40kA 550V P TS 3rd Ed
OVRT21N40660PTSU	OVR SPD 1P+N 40kA 660V P TS 3rd Ed

2 Pole + Neutral

Part number	Description
OVRT22N15150PU	OVR SPD 2P+N 15kA 175V P 3rd Ed
OVRT22N15320PU	OVR SPD 2P+N 15kA 320V P 3rd Ed
OVRT22N40150PTSU	OVR SPD 2P+N 40kA 175V P TS 3rd Ed
OVRT22N40320PTSU	OVR SPD 2P+N 40kA 320V P TS 3rd Ed
OVRT22N40440PTSU	OVR SPD 2P+N 40kA 440V P TS 3rd Ed
OVRT22N40550PTSU	OVR SPD 2P+N 40kA 550V P TS 3rd Ed
OVRT22N40660PTSU	OVR SPD 2P+N 40kA 660V P TS 3rd Ed

3 Pole + Neutral

Part number	Description
OVRT23N15150PU	OVR SPD 3P+N 15kA 175V P 3rd Ed
OVRT23N15320PU	OVR SPD 3P+N 15kA 320V P 3rd Ed
OVRT23N40150PTSU	OVR SPD 3P+N 40kA 175V P TS 3rd Ed
OVRT23N40320PTSU	OVR SPD 3P+N 40kA 320V P TS 3rd Ed
OVRT23N40440PTSU	OVR SPD 3P+N 40kA 440V P TS 3rd Ed
OVRT23N40550PTSU	OVR SPD 3P+N 40kA 550V P TS 3rd Ed
OVRT23N40660PTSU	OVR SPD 3P+N 40kA 660V P TS 3rd Ed

Replacement cartridges

Part number	Description
OVRT215150CU	OVR SPD 15kA 175V Cartridge 3rd Ed
OVRT215320CU	OVR SPD 15kA 320V Cartridge 3rd Ed
OVRT240150CU	OVR SPD 40kA 175V Cartridge 3rd Ed
OVRT240320CU	OVR SPD 40kA 320V Cartridge 3rd Ed
OVRT240440CU	OVR SPD 40kA 440V Cartridge 3rd Ed
OVRT240550CU	OVR SPD 40kA 550V Cartridge 3rd Ed
OVRT240660CU	OVR SPD 40kA 660V Cartridge 3rd Ed
OVRT270NCU	OVR SPD 70kA Neutral Cartridge 3rd Ed

Technical data

OVR DIN rail SPD

Electrical characteristics

Type / Test class		UL 1449 3rd Ed. - Type 4 for Type 2 apps IEC 61 643-1 2nd Ed - T2 / II
Frequency	Hz	50-60
Response time	ns	<25
Operating current (I_o)	mA	<0.1
Short circuit withstand current (I_{scw})	kA	200
Integrated thermal disconnect		Yes
State indicator		Yes
Safety reserve		No
Remote indicator		Optional
Disconnect	Circuit breaker - B or C curve	A
	Class J fuse	A
		≤ 125 ≤ 100

Mechanical characteristics

Wire range - solid wire	AWG	4-14
Wire range - stranded wire	AWG	6-14
Stripping length	in	0.5
Tightening torque	in-lbs	24.5
Degree of protection		NEMA 1

Remote indicator (Optional)

Type of contact		1 NO / 1 NC
Minimum load		12 VDC / 10 mA
Maximum load		250 VAC / 1 A
Connection cross section	AWG	16

Miscellaneous characteristics

Operating temperature	F	-40° to 176°
Maximum altitude	ft	6562
Color of housing / Fire resistance according to UL 94		Gray RAL 7035 / V-0
Reference standards		UL 1449 3rd Ed. IEC 61 643-1 2nd Ed

ABB Inc.

Low Voltage Control Products
16250 W. Glendale Drive
New Berlin, WI 53151
Phone: 888-385-1221
Fax: 800-726-1441

USA Technical Support & Customer Service:

888-385-1221, Option 4
7:30AM to 5:30PM, CST,
Monday - Friday
lvps.support@us.abb.com

Web: www.abb.us/lowvoltage

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