

NEMA Wall-mounted Surge Protection Devices

Compact and economical design



ABB NEMA Wall-mounted Surge Protective Devices (SPD) are compact and cost-effective solutions to shield sensitive electronic equipment against the damaging effects of transients caused by lightning, utility load switching, internal load switching and more. Our line-up is suitable for service entrance, mid-level distribution and point of use application in Low Voltage Systems. Basically comes with a wall-mount box enclosure so it does not need installation space inside a panelboard, suitable to jobs that require existing facility improvements.

Common Features

- UL Listed 1449 4th Edition
- UL 96A, for use in lightning protection systems
- UL 1283 EMI/RFI noise filter (option for OVRHTP)
- Comes in a box enclosure - compact and economical design
- Features include status indicating LEDs and form C dry contacts for remote monitoring

Specifications	TME	OVRHTP
SPD Type ^{*2}	Type 2	Type 1 or Type 2
Maximum surge current rating	~100kA per mode/ ~200kA per phase	~200kA per mode/ ~400kA per phase
Nominal discharge current rating (L-N)	20kA	20kA
Operating frequency	50 - 60Hz	50 - 60Hz
System connection	2ph 3W + G; 3ph 4W + G (see next page for details)	1ph 2W + G; 2ph 3W + G; 3ph 3W + G; 3ph 4W + G (see next page for details)
Modes of protection	All modes (L-N, L-G, N-G, L-L)	All modes (L-N, L-G, N-G, L-L)
Fault rating (SCCR)	65kAIC - 30A upstream overcurrent protection required	200kAIC - upstream overcurrent protection not required
MCOV (in case of 208Y/120V) ^{*1}	125% of mode and line voltages	Per mode= 150V, Per Phase= 300V
VPR (in case of 208Y/120V) ^{*1}	Per mode= 600V, Per Phase= 1000V	Per mode= 600V (L-G= 700V for some models), Per Phase= 1000V
Protection grade	NEMA 12 painted steel	NEMA 4X fiberglass-reinforced/ NEMA 4 powder coated metal/ NEMA 4X Stainless Steel
Other regulations	IEEE C62.41, C62.62, C62.72	IEEE C62.41.2, C62.45/ NFPA 70 (NEC) Article 285
Application	Service entrance equipment, primary distribution equipment – Rated for UL and NEC 2020 Type 2 installation locations	Service entrance equipment, primary distribution equipment – ANSI/IEEE C62.41.1 locations A, B and C

Note:

*1. For other voltage ratings please consult our sales representative.

*2. Type 1 and Type 2 are marks to identify SPD applicable location based on definitions stated in UL 1449 4th Edition.

Quick selection guide

TME Applicable as SPD Type 2²

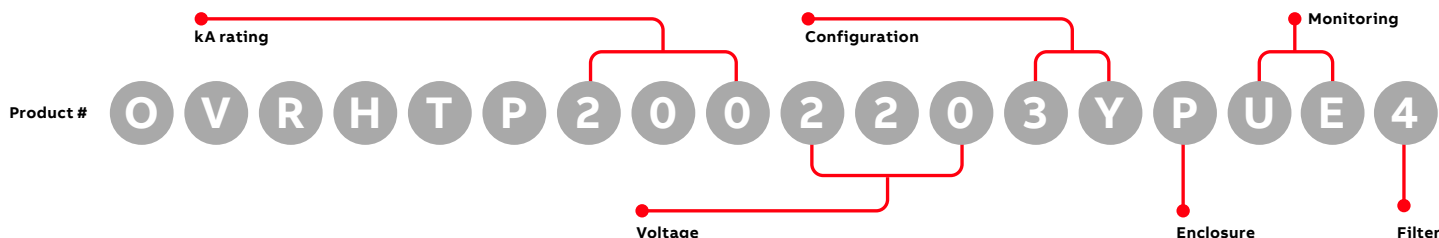
Product #

T M E 2 2 0 Y 1 0 0 W M

Nominal Voltage (Volts RMS) and configuration	Suffix
240/120V, 2ph, 3W + G	120S
208Y/120V, 3ph Wye, 4W + G	120Y
380Y/220V, 3ph Wye, 4W + G	220Y
240V, 3ph Delta, 3W	240D
240Δ/120V, 3ph HL, 4W + G	240H
415Y/240V, 3ph HL, 4W + G	240Y
480Y/277V, 3ph HL, 4W + G	277Y
480V, 3ph Delta, 4W	480D

Maximum Surge Current Rating	Suffix
130kA per phase, 65kA per mode	065
160kA per phase, 80kA per mode	080
200kA per phase, 100kA per mode	100

OVRHTP Applicable as SPD Type 1 or Type 2²



Maximum Surge Current Rating*1	Suffix
120kA per phase, 60kA per mode	120
160kA per phase, 80kA per mode	160
200kA per phase, 100kA per mode	200

Nominal Voltage (Volts RMS) and configuration	Suffix
120V, 1ph, 2W + G	1201P
127V, 1ph, 2W + G	1271P
220V, 1ph, 2W + G	2201P
230V, 1ph, 2W + G	2301P
240V, 1ph, 2W + G	2401P
277V, 1ph, 2W + G	2771P
240/120V, 2ph, 3W + G	1202S
480/240V, 2ph, 3W + G	2402S
240Δ /120V, 3ph HL, 4W + G	1203H
208Y/120V, 3ph Wye, 4W + G	1203Y
380Y/220V, 3ph Wye, 4W + G	2203Y
400Y/230V, 3ph Wye, 4W + G	2303Y
415Y/240V, 3ph Wye, 4W + G	2403Y
480Y/277V, 3ph Wye, 4W + G	2773Y
600Y/347V, 3ph Wye, 4W + G	3473Y
208V, 3ph Delta, 3W + G	2083D
240V, 3ph Delta, 3W + G	2403D
415V, 3ph Delta, 3W + G	4153D
480V, 3ph Delta, 3-W + G	4803D
600V, 3ph Delta, 3-W + G	6003D

Enclosure option	Suffix
Fiberglass-reinforced polyester, NEMA 4X	P
Powder-coated metal NEMA 4	4
Stainless steel NEMA 4X	S

Monitoring option	Suffix
Status indicator LED lights (one per phase)	B
Status indicator LED lights (one per phase), dry relay contacts, audible alarm with silence button, fault light	U
Status indicator LED lights (one per phase), surge counter, dry relay contacts, audible alarm with silence button, fault light	UE

Filter option	Suffix
4 UF filter	4
UL 1283 filter making device a Type 2	T2
No filter	0

Note:

*1. For other kA ratings please consult our sales representative.

*2. Type 1 and Type 2 are marks to identify SPD applicable location based on definitions stated in UL 1449 4th Edition.

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Full NEMA Lineup:



Online Catalog:



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