

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

Product #	O	V	R	H	T	P	2	0	0	2	2	0	3	Y	P	U	E	4
kA rating																		
Configuration																		
Voltage																		
Monitoring																		
Enclosure																		
Filter																		
Maximum Surge Current Rating¹																		
120kA per phase, 60kA per mode																		
160kA per phase, 80kA per mode																		
200kA per phase, 100kA per mode																		
Enclosure option																		
Fiberglass-reinforced polyester, NEMA 4X																		
Powder-coated metal NEMA 4																		
Stainless steel NEMA 4X																		
Monitoring option																		
Status indicator LED lights (one per phase)																		
Status indicator LED lights (one per phase), dry relay contacts, audible alarm with silence button, fault light																		
Status indicator LED lights (one per phase), surge counter, dry relay contacts, audible alarm with silence button, fault light																		
Filter option																		
4 UF filter																		
UL 1283 filter making device a Type 2																		
No filter																		

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.

— Full NEMA Lineup:



— Online Catalog:



ABB K.K.

Electrification Products Division

Head Quarters

ThinkPark Tower 22F,
2-1-1, Osaki, Shinagawa-ku, Tokyo,
Japan 141-6022

TEL: +81-3-4523-6600

FAX: +81-3-4523-6690

Kobe Branch Office

Meiji Yasuda Seimei Kobe Bldg. 11F,
8-3-5, Isogami-dori, Chuo-ku,

Kobe-shi, Hyogo,
Japan 651-0086

TEL: +81-78-242-1756

FAX: +81-78-242-1669

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