Quick step guide to purchasing an SPD

Which SPD is best for your application?

01 OVRHTP
02 OVHTE
03 OVRHS3U
OVRHT3B
OVRHT3C
04 OVRHLD
05 DIN Rail

UL SPD types:
Type 1 — Permanently connected SPD installed between the secondary of the service transformer and the line side of the service disconnect.
Type 2 — Permanently connected SPD installed on the load side of the main service disconnect.
Type 3 — Installed a minimum of 10 meters (30 feet) from the panel, cord connected, direct plug-in or receptacle types.
Type 4 and 5 — Components SPD, including discrete components as well as component assemblies.

01

02

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Quick reference guide to product features

	OVRHTP	OVRHTE	OVRHS3U OVRHT3B OVRHT3C	OVRHLD	DIN Rail
SPD Type	**Type 1**	**Type 2**	**Model dependent**	**Type 1**	**Type 4 for Type 2 locations**
Regulatory	• UL	• UL	• UL	• ETL	• UL • CE
Warranty	• 10 years (optional 15 years)	• 5 years	• 3 years	• 3 years	• Model dependent
Budget	$$$	$$	$	$	$
Features	• Thermally protected MOV • EMI filter • Surge counter* • LED(s) • Dry relay contacts* • RoHS • Audible alarm with alarm silence* • NEMA 4	• EMI filter • LED(s) • Dry relay contacts* • RoHS • NEMA 4	• Thermal fusing • Overcurrent fusing • LED(s) • Dry relay contacts – OVRHS3U only* • RoHS	• Thermal fusing • Overcurrent fusing • LED(s) • RoHS	• Modular design • Dry relay contacts* • Failure indicator • RoHS
Typical application	• Service entrance • Mid-level distribution • Panelboard distribution	• Mid-level distribution • Panelboard distribution	• Mid-level distribution • Panelboard distribution	• Panelboard distribution • Internally mounted solution	• Panelboard distribution • Internally mounted solution

*Optional feature

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			Isokeraunic risk (thunderstorm days per year)				
			High risk region South South West	Medium risk region Mid-Atlantic Mid-West	Low risk region New England West		
SPD location	**Protected equipment examples**					**Recommended SPD**	**Alternative SPD**
Service entrance							
The point of entry for utility power. A unit installed here protects the facility from a large external event, such as lightning or grid switching.	• Electrical switchgear • Switchboard • Distribution • MCCs	• Emergency power backup • Transfer switch • UPS system	**Suggested surge rating based on Isokeraunic risk**			• OVRHTP 400 kA • OVRHTP 300 kA • OVRHTP 240 kA	• OVRHTP 200 kA • OVRHTP 160 kA • OVRHTP 120 kA
			Above 300 kA	Above 200 kA	Above 120 kA		
Mid-level distribution							
Closer to the critical load. A unit installed here protects from internally generated surges and isolates critical equipment from faults.	• Emergency power backup • Transfer switches • Control boxes • Switchgear • Generators • Computer servers • Building management systems	• Surveillance equipment • Security systems • HVAC • Fire alarm panels • Copiers • Telephone systems • Fax machines	**Suggested surge rating based on Isokeraunic risk**			• OVRHTP 240 kA • OVRHTP 200 kA • OVRHTP 160 kA • OVRHTP 120 kA	• OVRHTP 120 kA • OVRHTP 100 kA • OVRHTP 80 kA • OVRHS3U OVRHT3B OVRHT3C • OVRHTE 100 kA • OVRHTE 50 kA
			Between 240 kA and 400 kA	Between 120 kA and 240 kA	Between 50 kA and 120 kA		
Panelboard distribution							
Installing surge protection at panel distribution extends unit longevity by absorbing mini surges that reduce equipment life.	• X-Ray • CAT-Scan • Life support equipment • Medical instrumentation • Computer servers • Elevators	• Parking lot lighting • Printers • Communication systems • Motors • Pumps • Drives	**Suggested surge rating based on Isokeraunic risk**			• OVRHTP 120 kA • OVRHTP 100 kA • OVRHTP 80 kA • OVRHTP 60 kA • OVRHTE 80 kA • OVRHTE 50 kA • OVRHTE 25 kA	• OVRHS3U OVRHT3B OVRHT3C • OVRHLD • DIN Rail series
			Between 160 kA and 300 kA	Between 80 kA and 160 kA	Between 25 kA and 80 kA		

Notes: SPD voltage must match application voltage.
In cases where the input voltage to a panel is a Wye voltage configuration, but all of the loads are either L-G or L-L reference, a Delta system is the preferred SPD voltage configuration.

ABB Inc.
305 Gregson Drive
Cary, NC 27511
United States

Customer Service: 800-816-7809
7:00 a.m. – 5:30 p.m., CST, Monday-Friday
elec_custserv@us.abb.com

Technical Support: 888-385-1221, Option 1
7:00 a.m. – 5:00 p.m., CST, Monday-Friday
lvps.support@us.abb.com

electrification.us.abb.com

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