

Quick step guide to purchasing an SPD

Which SPD is best for your application?

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

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



03



04



05

Quick reference guide to product features

	OVRHSP	OVHTE	OVRHS3U OVRHT3B OVRHT3C	OVRHLD	DIN Rail
SPD Type	Type 1	Type 2	Model dependent	Type 1	Type 4 for Type 2 locations
Regulatory	<ul style="list-style-type: none"> ETL – 60, 80, 100 kA models only UL – 120, 160, 200, 240, 300, 400 kA models only CE – All units 	<ul style="list-style-type: none"> UL 	<ul style="list-style-type: none"> UL 	<ul style="list-style-type: none"> ETL 	<ul style="list-style-type: none"> UL CE
Warranty	<ul style="list-style-type: none"> 10 years (optional 15 years) 	<ul style="list-style-type: none"> 5 years 	<ul style="list-style-type: none"> 3 years 	<ul style="list-style-type: none"> 3 years 	<ul style="list-style-type: none"> Model dependent
Budget	\$\$\$	\$\$	\$	\$	\$
Features	<ul style="list-style-type: none"> Overcurrent fusing EMI filter Surge counter LED(s) Dry relay contacts RoHS Audible alarm with alarm silence NEMA 4 	<ul style="list-style-type: none"> EMI filter LED(s) Dry relay contacts – model dependent RoHS NEMA 4 	<ul style="list-style-type: none"> Thermal fusing Overcurrent fusing LED(s) Dry relay contacts – OVRHS3U only RoHS 	<ul style="list-style-type: none"> Thermal fusing Overcurrent fusing LED(s) RoHS 	<ul style="list-style-type: none"> Modular design Dry relay contacts – model dependent Failure indicator RoHS
Typical application	<ul style="list-style-type: none"> Service entrance Mid-level distribution Panelboard distribution 	<ul style="list-style-type: none"> Mid-level distribution Panelboard distribution 	<ul style="list-style-type: none"> Mid-level distribution Panelboard distribution 	<ul style="list-style-type: none"> Panelboard distribution Internally mounted solution 	<ul style="list-style-type: none"> Panelboard distribution Internally mounted solution

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SPD location	Protected equipment examples	Isokeraunic risk (thunderstorm days per year)			Recommended SPD	Alternative SPD	
		High risk region South SouthWest	Medium risk region Mid-Atlantic Mid-West	Low risk region New England West			
Service entrance	<ul style="list-style-type: none"> Electrical switchgear Switchboard Distribution MCCs 	<ul style="list-style-type: none"> Emergency power backup Transfer switch UPS system 	Suggested surge rating based on Isokeraunic risk			<ul style="list-style-type: none"> OVRHSP 400 kA OVRHSP 300 kA OVRHSP 240 kA 	<ul style="list-style-type: none"> OVRHSP 200 kA OVRHSP 160 kA OVRHSP 120 kA
			Above 300 kA	Above 200 kA	Above 120 kA		
Mid-level distribution	<ul style="list-style-type: none"> Emergency power backup Transfer switches Control boxes Switchgear Generators Computer servers Building management systems 	<ul style="list-style-type: none"> Surveillance equipment Security systems HVAC Fire alarm panels Copiers Telephone systems Fax machines 	Suggested surge rating based on Isokeraunic risk			<ul style="list-style-type: none"> OVRHSP 240 kA OVRHSP 200 kA OVRHSP 160 kA OVRHSP 120 kA 	<ul style="list-style-type: none"> OVRHSP 120 kA OVRHSP 100 kA OVRHSP 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	<ul style="list-style-type: none"> X-Ray CAT-Scan Life support equipment Medical instrumentation Computer servers Elevators 	<ul style="list-style-type: none"> Parking lot lighting Printers Communication systems Motors Pumps Drives 	Suggested surge rating based on Isokeraunic risk			<ul style="list-style-type: none"> OVRHSP 120 kA OVRHSP 100 kA OVRHSP 80 kA OVRHSP 60 kA OVRHTE 80 kA OVRHTE 50 kA OVRHTE 25 kA 	<ul style="list-style-type: none"> 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.