

Proj Name

Contact

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Service Entrance Equipment

Distribution Equipment

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Prepared by Date

Proj Location Company

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THOR SYSTEMS, INC.

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SITE RISK ASSESSMENT

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Determine Surge Protective Device (SPD) placement within facility. Complete Criteria Selections 1-7 below for each facility location (seven locations can be assessed on form). Total the value (refer to **Table A** for recommended SPD series/size). See **Example Application** below.

Assessment Criteria Selection	Location(s)								Example	
Electrical System Ampacity (at installation point)	Α	В	3 C		Е	F	F G		Application	
9 (2500-6000A) 7 (1200-2000A) 4 (600-1000A) 3 (225-400A) 2 (125-200A) 1 (Up to 100A)	4	4	1					9	4,000A Switchgear	
2. Geographical Location (see Maps below) Isokeraunic Map (Thunderstorm Days/Year): 4 (80-100) 3 (60-70) 2 (40-50) 1 (5-30)	1	1	1					3	Dallas, TX 60 Storm Days	
Mean Ground Flash Map (Mean Ground Flashes/Yr): 4 (13-16) 3 (9-12) 2 (5-8) 1 (1-4)	1	1	1					2	8 Flashes	
3. System (AC) Voltage 4 (600V) 3 (480V) 2 (240 or 208V) 1 (120V)	3	2	2					3	480V	
4. Distribution System Configuration 3 (3Ø Wye 4W+G) 2 (3Ø Delta 3W+G) 1 (2Ø 3W+G)	3	3	3					3	3∅ WYE, 4W+G	
5. Short Circuit Current (at installation point) 6 (101-200kA) 5 (51-100kA) 3 (26-50kA) 2 (15-25kA) 1 (5-14kA)	2	1	1					5	72kAIC	
6. SPD Location (within electrical system) 8 (Svc Entrance w/Transfer Switch; power from utility) 7 (Svc Entrance w/o Transfer Switch; power from utility) 3 (Dist Panel ≥1000A; power from switchgear) 2 (Sub-dist Panel ≤1000A; power from panel; no Xfmr) 1 (Branch Panel ≤400A; power Xfmr)	7	2	1					8	Svc Entrance w/Transfer Switch	
7. Load Criticality Range: 3 (least) to 10 (most)	7	7	9					10	7x24 Data Ctr	
8. Numerical Value Total (see Table A)	28	21	19	0	0	0	0	43	43 = TSr300	

	0	20 21 10										0 0 0 0 10 12	
	Model Number (See Table C)											Install Location -	
-	Key	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	Description	Qty
	Example	TSr	i	300	F	х	3Y4	Р	2	01	BFi	4000A, 480/277Vac	1
	Α	TSr	С	200	T	z	3Y4	Р	2	01	BF	Panel MDP	1
	В	TSn	С	150	W	z	3Y2	Р	2	01		Panel DP	1
	С	TSn	С	100	W	z	3Y2	Р	1	01		Panel LP	1
	D												
	Е												
s	F												
	G												



