

Data Sheet

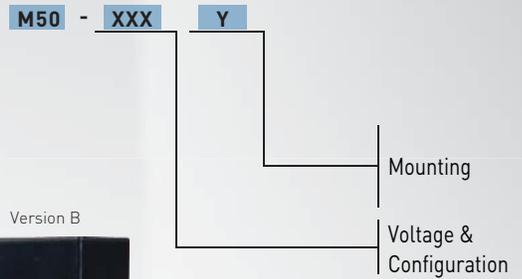
Type 2 Surge Protective Device *M50F Series*



Version A



Version B



Application

- Industrial
- Commercial
- Residential

Features

- I_{max} 50kA 8/20μs
- All single and three phase configurations from 120 to 600Vac
- Hybrid Technology for enhanced TOV protection with no leakage current and EMI/RFI Filtering
- Real-time diagnostics include an LED per phase and audible alarm
- Indoor/Outdoor IP66/NEMA6 rated enclosure (NEMA6 exceeds NEMA4 or 4X)
- Panel mount via M22 or 1/2" NPT
- Mounting is available on side, back or din rail
- Hardwired connection #12 AWG 36" leads
- 10-year free replacement warranty

UL

- Listed for standalone or integrated applications
- UL Type 2 SPD, cUL Type 2 SPD - Installed on line or load side of the main disconnect
- In 20kA (All models)
- SCCR 200kA (All models)
- VPR L-N is 700V for 120V, 120/240V, 120/208V (See page 2 for full table)
- VPR L-N is 1200V for 220V, 220/380V, 230/400V, 240/415V, 277/480V (See page 2 for full table)
- Meets requirements of UL96A Lightning Protection Master Label
- UL Type 1 SPD option available (M50 Series)
- File # VZCA.E326289 (www.ul.com)



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Type 2 Surge Protective Device M50F Series

Technical Data

Description	M50F-120Y-X	M50F-120T-X	M50F-120S-X	M50F-230S-X	M50F-240T-X	M50F-240D-X	M50F-277Y-X	M50F-347Y-X	M50F-480D-X	M50F-600D-X										
Product Part Number - A version	750101	750102	750103	750303	750402	750404	750501	750601	750704	750804										
Product Part Number - B version	750111	750112	750113	750313	750412	750414	750511	750611	750714	750814										
System voltage	120-208	120-240	120	230	240-480	240	277-480	347-600	480	600										
System	4W+G (Wye)	3W+G (Split Ph)	2W+G (single)	2W+G (single)	3W+G (Split Ph)	3W+G (Delta)	4W+G (Wye)	4W+G (Wye)	3W+G (Delta)	3W+G (Delta)										
Maximum Operating Voltage	L- G	140	140	140	270	280	280	320	400	550	690									
	L- N	140	140	140	270	280	/	320	400	/	/									
	N- G	120	120	120	230	240	/	280	350	/	/									
	L- L	240	280	/	/	480	280	560	690	560	690									
Operating Current	Ic	mA									25 per line									
Follow current	If	A									None									
Short Circuit Current Rating	SCCR	kA									200									
Maximum Leakage Current	Ipe	mA									None									
Maximum Recommended fuse	Rating , Type										200A, Class J									
Frequency	F	Hz									50 - 60									
Nominal discharge current	In (8-20)	kA									20									
Maximum Discharge Current	L- G										50									
	N- G										100									
Impulse Discharge Current per phase	Iimp (10-350)	kA									4									
Total Maximal Discharge Current	Itotal (8-20)	kA									100									
Total Maximal Discharge Current	Itotal (10-350)	kA									15	12	8	8	12	12	15	15	12	12
Let through Voltage	Ures (V) at 20kA	L- G	1500	1500	1500	1900	1900	1500	1900	2500	1900	2300								
	L- N	900	900	900	1500	1500	N/A	1500	1800	N/A	N/A									
	N- G	1500	1500	1500	1500	1500	N/A	1500	1800	N/A	N/A									
	L- L	1500	1500	N/A	N/A	3100	1500	3100	3300	3100	3800									
Voltage Protection Level	L- G	1200	1200	1200	1500	1500	1200	1500	2000	1500	1800									
	L- N	700	700	700	1200	1200	N/A	1200	1400	N/A	N/A									
	N- G	1200	1200	1200	1200	1200	N/A	1200	1800	N/A	N/A									
	L- L	1200	1200	N/A	N/A	2500	1200	2500	2600	2500	3000									
Shipping Dimensions	Inches										8x3.75x4.25									
Shipping Weight	Ibs										2.4									
Standard's Compliance or recognition	UL1449 ed4	File: E326289									Type 2									
	IEC 61643-11 ed2										Type 2									
Visual disconnection indicator											LED									
Sound disconnection indicator											Continuous Buzzer									
Wiring type											AWG 12 wires									
Maximum altitude	ft										6500									
Operating Temperature	°F										-40 +185									
Housing* -Enclosure material											Aluminum cast									
Mounting type											Side or back nipple (Version A or B) Threaded (M22) . NPT 1/2 adaptor available									
Environmental rating	IP										IP66									
	Nema										NEMA 6									
Location Installation											Indoor / outdoor									

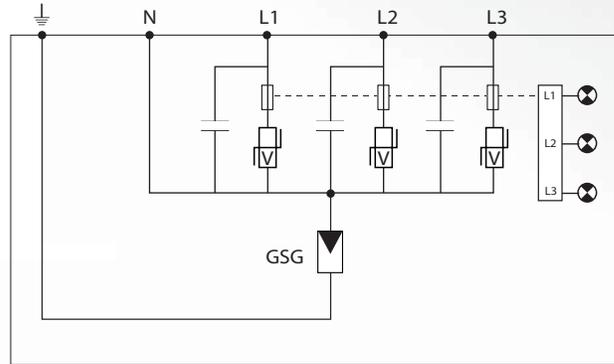


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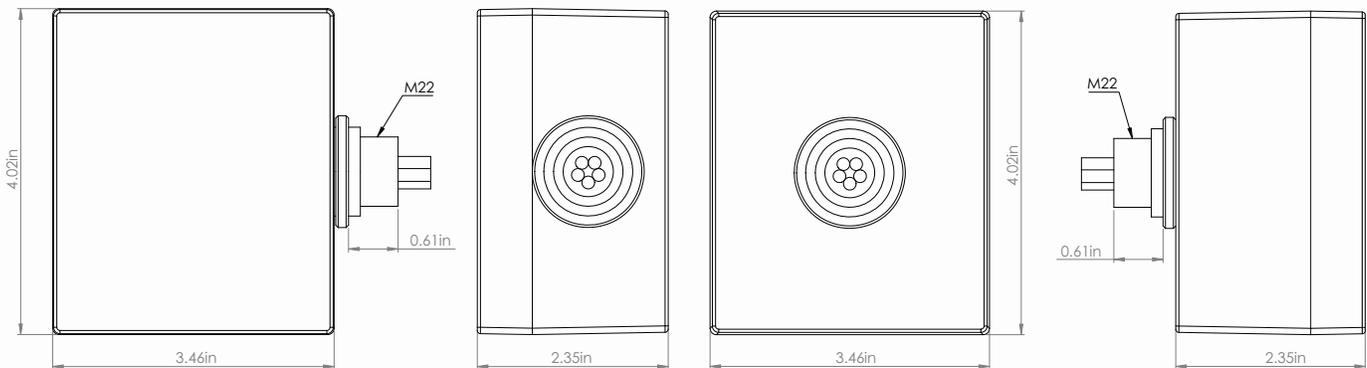
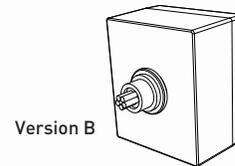
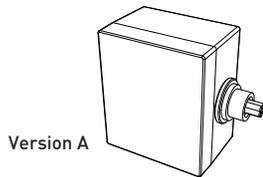
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Electrical Diagram



Dimensions



*NPT 1/2 adaptor available in both versions