

# Specifications:

## SurgePure® MACH 5 TVSS Series

For IEEE Cat.C Main Panels/  
Primary Locations

Applications up to  
1000KW Systems

Manufacturers Model No.	M5-1120-3	M5-1208-4	M5-1240-3	M5-1240-4	M5-1480-3	M5-1480-4
Common Electrical TVSS System Type:	1 Ø	3 Ø WYE	3 Ø Delta	3 Ø WYE or Delta	3 Ø Delta	3 Ø WYE or Delta
Nominal AC Line Voltage/ <b>MCOV</b> <sup>®</sup> (L-N/L-L)	130/250	130/130/210	250/250	130/210/250	510/510	300/300/510
Frequency Range-USA Std.:	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
<b>Single Element SE</b> <sup>+</sup> Protection Modes:	L-N; L-L	L-N; L-L & N-G	L-L	L-N; L-L & N-G	L-L	L-N; L-L & N-G
Knock Out Size for Mounting:	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Leads: #8 AWG (for 40A Breaker):	3+ Gnd.	4+ Gnd.	3+ Gnd.	4+ Gnd. Hi-Leg	3+ Gnd.	3 or 4+ Gnd.
Max. Non-degrading <b>SE</b> <sup>+</sup> Surge Capacity:	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>
<b>Dual Triangle</b> * Max. Surge Current Per Phase:	<b>350K Amps</b>	<b>350K Amps</b>	<b>350K Amps</b>	<b>350K Amps</b>	<b>350K Amps</b>	<b>350K Amps</b>
Sustained Surge Capacity @ 8x20 µSec	<b>680K Amps</b>	<b>1,000K Amps</b>	<b>1,000K Amps</b>	<b>1,000K Amps</b>	<b>1,000K Amps</b>	<b>1,000K Amps</b>
Maximum Constant Voltage (L-N/L-L):	150/300	150/300	150/300	150/300	320/550	320/550
Max. Clamping Voltage - L-L:	520	520	520	520	1175	1175
Max. Clamping Voltage - L-N:	390	390	N/A	390	N/A	675
Max. Clamping Voltage - N-G:	330	390	N/A	390	N/A	390
Mfgr's. Full Replacement Warranty:	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime
Safety Surg'Cushion & Lifetime Repl. Module:	YES	YES	YES	YES	YES	YES
Enclosure Size (HxWxD):	10 <sup>1/2</sup> x8 <sup>1/2</sup> x6 <sup>1/4</sup> "	10 <sup>1/2</sup> x8 <sup>1/2</sup> x6 <sup>1/4</sup> "	10 <sup>1/2</sup> x8 <sup>1/2</sup> x6 <sup>1/4</sup> "	10 <sup>1/2</sup> x8 <sup>1/2</sup> x6 <sup>1/4</sup> "	10 <sup>1/2</sup> x8 <sup>1/2</sup> x6 <sup>1/4</sup> "	10 <sup>1/2</sup> x8 <sup>1/2</sup> x6 <sup>1/4</sup> "
Shipping Weight (Approx.):	22 Lbs.	24 Lbs.	23 Lbs.	24 Lbs.	25 Lbs.	26 Lbs.

# Specifications:

## SurgePure® MACH 6 TVSS Series

For IEEE Cat. C Main Panels/  
Primary Locations

Applications up to  
2500KW Systems

Manufacturers Model No.	M6-1120-3	M6-1208-4	M6-1240-3	M6-1240-4	M6-1480-3	M6-1480-4
Common Electrical TVSS System Type:	1 Ø	3 Ø WYE	3 Ø Delta	3 Ø WYE or Delta	3 Ø Delta	3 Ø WYE or Delta
Nominal AC Line Voltage/ <b>MCOV</b> <sup>®</sup> (L-N/L-L)	130/250	130/130/210	250/250	130/210/250	510/510	320/320/510
Frequency Range-USA Std.:	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
<b>Single Element SE</b> <sup>+</sup> Protection Modes:	L-N; L-L	L-N; L-L & N-G	L-L	L-N; L-L & N-G	L-L	L-N; L-L & N-G
Knock Out Size for Mounting:	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Leads: #6 AWG (for 60A Breaker):	3+ Gnd.	4+ Gnd.	3+ Gnd.	4+ Gnd.	3+Gnd.	3 or 4+ Gnd.
Max. Non-degrading <b>SE</b> <sup>+</sup> Surge Capacity:	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>	<b>80,000 Amps</b>
<b>Quad'Triangle</b> * Max. Surge Current Per Phase:	<b>640K Amps</b>	<b>640K Amps</b>	<b>640K Amps</b>	<b>640K Amps</b>	<b>640K Amps</b>	<b>640K Amps</b>
Sustained Surge Capacity @ 8x20 µSec	<b>1,400K Amps</b>	<b>2,000K Amps</b>	<b>2,000K Amps</b>	<b>2,000K Amps</b>	<b>2,000K Amps</b>	<b>2,000K Amps</b>
Maximum Constant Voltage (L-N/L-L):	150/300	150/300	150/300	150/300	320/550	320/550
Max. Clamping Voltage - L-L:	520	520	520	520	1175	1175
Max. Clamping Voltage - L-N:	390	390	N/A	390	N/A	675
Max. Clamping Voltage - N-G:	330	390	N/A	390	N/A	390
Mfgr's. Full Replacement Warranty:	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime
Safety Surg'Cushion & Lifetime Repl. Module:	YES	YES	YES	YES	YES	YES
Enclosure Size (HxWxD):	14 <sup>1/2</sup> x12 <sup>1/2</sup> x8 <sup>1/4</sup> "	14 <sup>1/2</sup> x12 <sup>1/2</sup> x8 <sup>1/4</sup> "	14 <sup>1/2</sup> x12 <sup>1/2</sup> x8 <sup>1/4</sup> "	14 <sup>1/2</sup> x12 <sup>1/2</sup> x8 <sup>1/4</sup> "	14 <sup>1/2</sup> x12 <sup>1/2</sup> x8 <sup>1/4</sup> "	14 <sup>1/2</sup> x12 <sup>1/2</sup> x8 <sup>1/4</sup> "
Shipping Weight (Approx.):	48 Lbs.	56 Lbs.	52 Lbs.	56 Lbs.	56 Lbs.	58 Lbs.

SE<sup>+</sup> = Single Element, Non-degrading TVSS Technology as Dual'Triangle and Quad'Triangle Config. ~ MCOV<sup>®</sup> = Maximum Continuous Operating Voltage Rating

~ Non-Degrading TVSS (SE) Single-Element Technology ~