

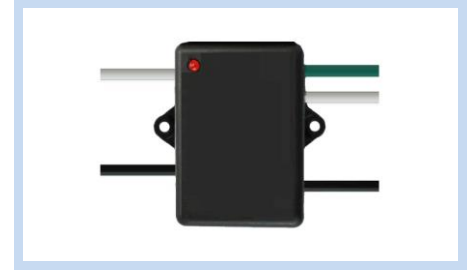
Surge Protection Module 277VAC 5KA With GDT

SPM202775-G

MERITEK

FEATURE

- Surge protection level: in 5kA (8/20 uS)
- High Temperature Resistant And Flameproof Enclosure
- Applicable For Voltage Driver And Rectifier
- Compliant with IEC/EN61643-11 Class II
- Compliant with UL 1449 4th type 4CA and CSA C22.2



PART NUMBERING SYSTEM

SPM **20** **277** **5** **B3D** **G**
(1) (2) (3) (4) (5) (6)



No	Item	Code	Description	Series Reference
(1)	Meritek Series	SPM	Surge protection module	Wire Lead Type
(2)	Varistor Size Code	20	20:20mm	MOV Body Size Reference
(3)	Nominal System Voltage	277	277: 277 Vac	277 Vac
(4)	Nominal Discharge Current	5	5: 5KA	In 8/20 μs
(5)	Protection and WireType	B3D	B3: Branch Line, 3 Wires, Delta	M5(6): Main Line , 5 or 6 wires, Delta
(6)	Connection Type	G	Gas Discharge Tube	Delta Connection with GDT

ELECTRICAL CHARACTERISTICS

Meritek Part Number		SPM202775B3DG	SPM202775M5DG	SPM202775M6DG	Unit
Nominal System Voltage, Un		277	277	277	Vac
Maximum Continuous Operating Voltage, Uc		320	320	320	Vac
Working Frequency		50/60	50/60	50/60	Hz
Nominal Discharge Current, in (8/20us)		5	5	5	KA
Maximum Discharge Current, I _{max} (8/20us)		10	10	10	KA
Measured Limiting Voltage, MLV	L-N	1250	1310	1310	V
	L-G	1780	1750	1750	V
	N-G	1810	1620	1620	V
Voltage Protection Level, Up	L-N	1200	1200	1200	V
	L-G	1800	1800	1800	V
	N-G	1800	1800	1800	V
Rated Load Current, IL		--	5	5	A
Protection Type		Branch Line Protection	Main Line Protection	Main Line Protection	--
Wire Model		3 Wires	5 Wires	6 Wires	--
Connection Type		Delta Connection with GDT	Delta Connection with GDT	Delta Connection with GDT	--

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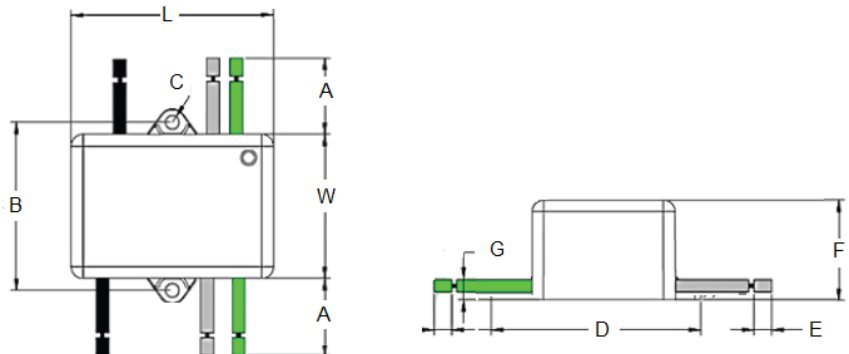
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APPLICATION SCHEMATIC and PIN LAYOUT

Applicaton Schematic	Model
	<p>Parallel Connection:</p> <p>SPM202775B3DG: 3 wire-model with GDT in series in common mode (L-G and N-G)</p>
	<p>Series Connection:</p> <p>SPM202775M5DG: 5 wire-model with GDT in series in common mode (L-G and N-G)</p>
	<p>Series Connection:</p> <p>SPM202775M6DG: 6 wire-model with GDT in series in common mode (L-G and N-G)</p>

DIMENSION

Item	SPM202775-G series	
	Size (mm)	Tolerance
W	37	±0.1
A	150	+20, -0
B	43	±0.5
C	3.5	±0.2
D	50	±1.5
E	4	±1.0
F	25.5	±1.0
G	5.2	±0.2



*Specifications subject to change without notice.