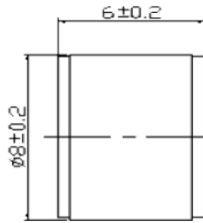


DATASHEET

Benelec EMP Replacement Gas Capsules

SKU	Breakdown Voltage
176901	90 V
176902	230 V
176903	350 V
176904	600 V
176905	800 V
176906	1000 V



176210
Lightning Arrester

The **17690X** series replaceable Gas Capsules are designed for a high degree of surge protection. It operates on the gas physical principle of the highly effective arc discharge. The **17690X** series is used for protecting equipment for which higher voltage limits and holdover voltage are necessary. These gas capsules are for use with the Benelec **176210** Lightning Arrester.

FEATURES

- Fast response time
- Suitable for direct strikes
- Stable performance over life
- Very low capacitance
- High insulation resistance

APPROVALS

- Communication lines
- CATV equipment
- Test equipment
- Data lines, power supply
- Base Station
- Medical electronics

APPROVALS

- UL recognised: File Number E32624B
- Meets RoHS
- ITU Rec K12
- GB9043

Test Environment (@ 25°C)

Parameter	Min	Typ	Max	Unit
DC Breakdown Voltage	72	90	108	V
	184	230	276	
	280	350	420	
	480	600	720	
	640	800	960	
	800	1000	1200	
Insulation Resistance	1*10 ⁹	-	-	Ω
Capacitance	-	-	1.5	pF
Climatic Category	IEC60068-1		40/90/21	
Operational Temperature	-40	-	+125	°C

Website: benelec.au

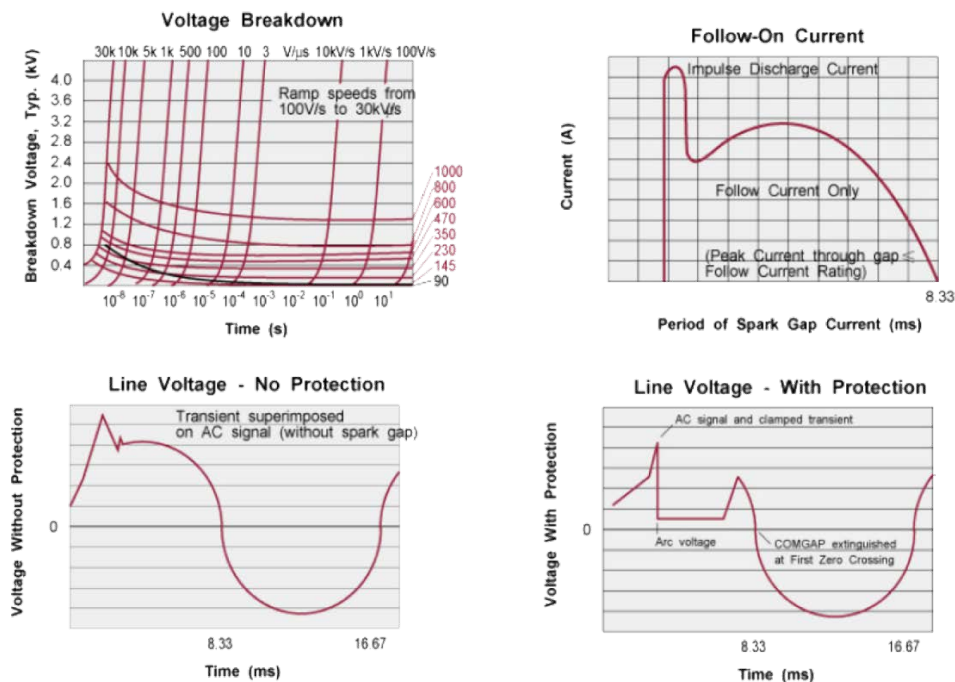
SPECIFICATIONS

Parameter	Part Number						Unit
	176901	176902	176903	176904	176905	176906	
DC Breakdown Voltage (1)	72 ~ 108	195 ~ 265	297 ~ 403	480 ~ 720	640 ~ 960	800 ~ 1200	V
	80 ~ 120						%
Impulse Breakdown Voltage (2)	≤600	≤700	≤1000	≤1400	≤1450	≤1500	V
Insulation Resistance (3)	≥1*10 ⁹						Ω
Nominal AC Discharge Current (4)	20						A
Nom. Impulse Discharge Current (5)	10 shots 8/20μs						kA
	1 shot 8/20μs						
	1 shot 10/350μs						
	300 shots 10/1000μs						A
	1500 shots 10/1000μs						
Arc Voltage @ 1A	-15						V
Holdover Voltage	52	80	135				V
Weight	≤1.5						g

Remarks:

- (1) At 100 V/s
- (2) At 1kV/μs
- (3) Except for 90V types measured at 50 VDC, other types are measured at 100 VDC
- (4) 50 Hz, 1s, 10 shots
- (5) For each test new gas discharge tube shall be used.

PERFORMANCE CHARACTERISTICS



Website: benelec.au