



AC Power Line Surge Protector

R·A·V- BWZ-4, BWZ-5
BXZ-4, BXZ-5 SERIES

SPD (Surge Protective Device)



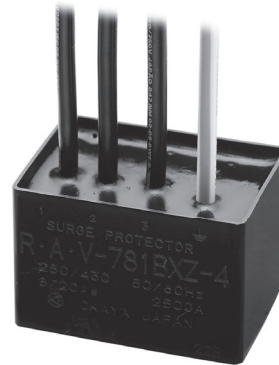
Features

- These models are specifically designed for use in AC power line applications which may require European (CE) mark.
- They are designed for use in single and three-phase applications for protection against “common mode” noise transient surges.
- Three-phase application include Delta and Y connections to AC500V.



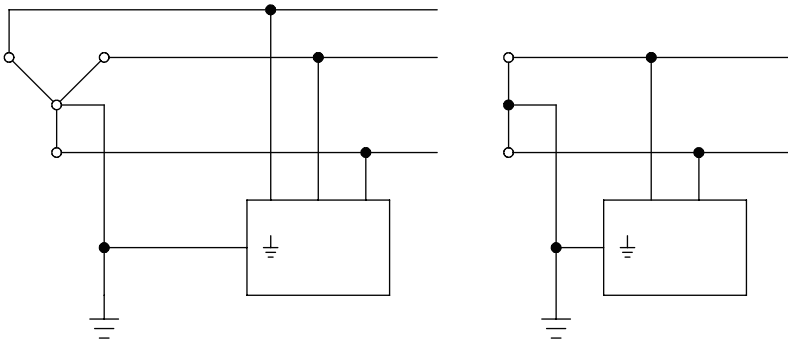
Safety Standard		File No.*
UL	:UL1449	E322107
cUL	:C22.2 No.269.5	

* File No. may be revised without notice. Please contact us at the time of your request for certifications.



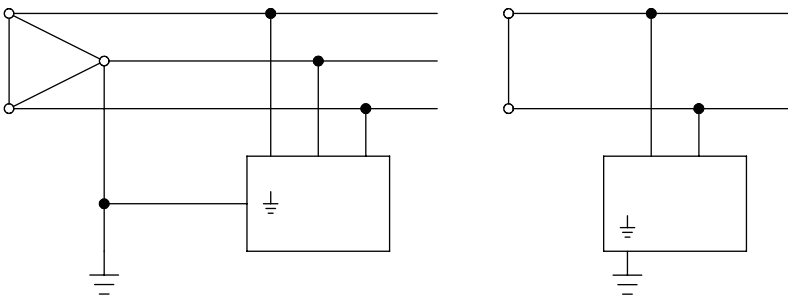
Circuit

- Y connection



Y connection -

1 ϕ ~ AC500V (line voltage) : R·A·V-781BWZ-4
 3 ϕ ~ AC415V (line voltage) : R·A·V-781BXZ-4
 3 ϕ ~ AC480V (line voltage) : R·A·V-801BXZ-4

- Δ connection Δ connection -

1 ϕ ~ AC250V (line voltage) : R·A·V-781BWZ-4
 3 ϕ ~ AC240V (line voltage) : R·A·V-781BXZ-4
 3 ϕ ~ AC250V (line voltage) : R·A·V-801BXZ-4

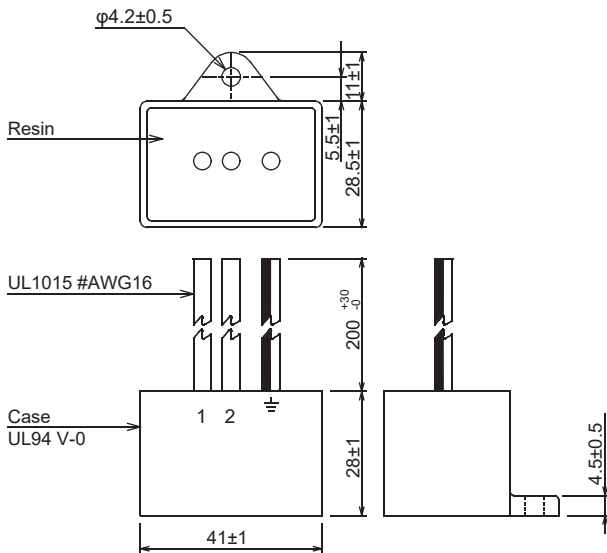
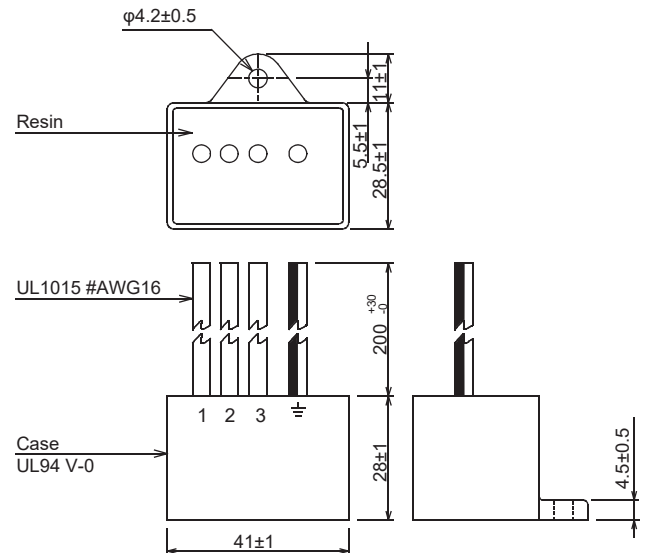
Electrical Specifications

Safety Standard	Model Number	Rated Voltage 50/60Hz		Power Frequency Sparkover Voltage U_a (V) $\pm 20\%$	Nominal Discharge Current I_{ns} 8/20 μs (A)	Max. Standard lightning Impulse Sparkover Voltage U_s 1.2/50 μs (V)	Max. Sparkover Voltage at front of wave lighting Impulse U_{sa} 10,000V/ μs (V)	Max. Residual Voltage U_r 8/20/ μs -2,500A (V)
		Δ connection L-L, L- $\frac{L}{\sqrt{3}}$	Y connection L-L, L- $\frac{L}{\sqrt{3}}$					
	R·A·V-781BWZ-4	AC250V	AC250/500V	700	2,500	2,000	3,000	2,000
	R·A·V-781BWZ-5							
	R·A·V-781BXZ-4	AC240V	AC240/415V					
	R·A·V-781BXZ-5							
	R·A·V-801BXZ-4	AC250V	AC277/480V	800		2,320	3,480	2,320
R·A·V-801BXZ-5								

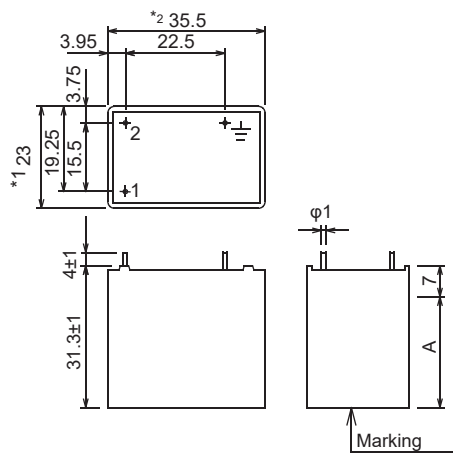
* R·A·V-□□□-4: Wire type, R·A·V-□□□-5: Lead type
 Operating Temperature: -40~+70°C



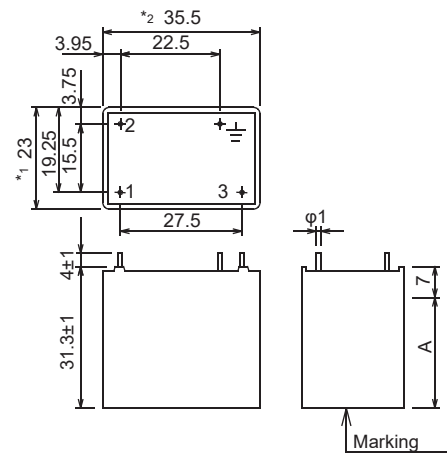
• Dimensions

BWZ Series (Single-Phase)
Wire terminal type (-4)BXZ Series (Three-Phase)
Wire terminal type (-4)

Solder lead type (-5)

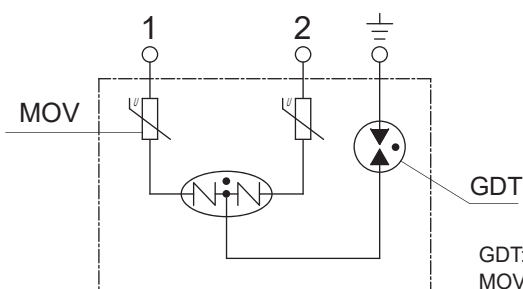


Solder lead type (-5)

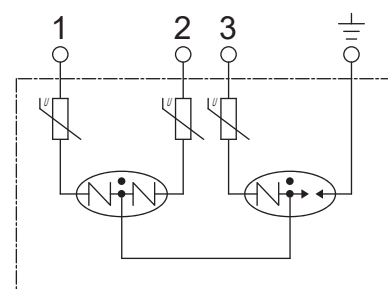
(A, *1, *2: Tolerances ± 0.5)Unit: mm
Tolerances: ± 1.0

• Circuit

BWZ series



BXZ series

GDT: Gas-filled discharge tubes
MOV: Metal oxide Varistors