

KR series, surge arrester, protects equipment from the damaging effect of overvoltage and surge current caused by lightning. KR series adopts anti-superheating & surge absorbing parts and GDT complied with CE/UL approval, realizing stability with high-performance.

Features

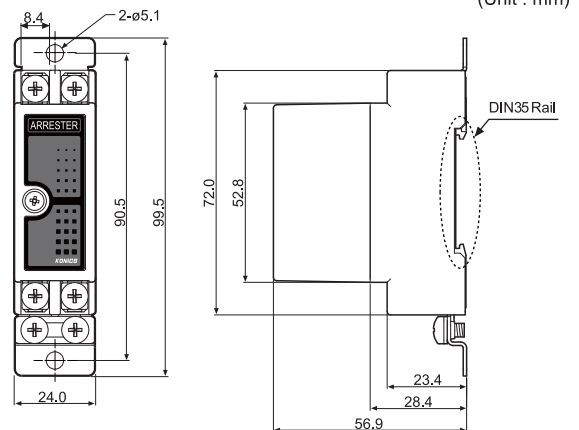
- Realizing stability with high-performance elements complied with CE/UL approval.
 - Adopting anti-superheating & surge absorbing and GDT
- Diverse model for various mounting environment
 - Power supply type(AC, DC), Signal type(Thermocouple, Voltage, Current, RTD, Potentiometer, Pulse, Differential)
- Space saving design with compact size (W24 X H72 X L56.9mm)
- Easy maintenance with detachable structure
- IEC standard structure
 - Power supply type : IEC 61643-1, Signal type : IEC 61643-21
- CE  (under processing)



Ordering Codes

KR	P3A	250	05	
				Current capacity
				05 5kA
				Power supply
				12 12VDC
				24 24VDC
				48 48VDC
				125 125VAC
				250 250VAC
				signal type
				5 5V
				24 24V
				Power supply type
				P3A 3-wire AC
				P3D 3-wire DC
				signal type
				T Thermocouple, Voltage, Current
				D RTD, Potentiometer(VR), Pulse, Differential(RS485)
				Item/Series
				KR KONICS ARRESTER

Dimension



Specifications

1. Power supply type

Model	KRP3D-12-05	KRP3D-24-05	KRP3D-48-05	KRP3A-125-05	KRP3A-250-05
Input signal	3-wire DC(DC+, DC-, F.G.)			3-wire AC(Line, Neutral, F.G.)	
Power supply	12VDC	24VDC	48VDC	125VAC	250VAC
Discharge voltage ※1	L-L ※2	17V	35V	65V	200VDC
	L-G ※3	170V			390VDC
Protection level ※4 (Up@10kV)	L-L	40V	60V	110V	600V
	L-G	500V		1000V	1500V
Maximum load current	2A			5A	
Leakage current ※5	L-L	≤0.1mA(12V)	≤0.1mA(24V)	≤0.1mA(48V)	≤0.1mA(140VAC)
	L-G	≤0.1mA(100V)			≤0.1mA(270VAC)
Surge capacity	5kA				
Respond time	100ns(0.1usec.)				
Series resistance	0.2Ω ±1.0%		0.4Ω ±1.0%	—	
Ambient temperature	-20~70°C(at non-freezing status)				
Ambient humidity	50~90%RH(at non-freezing status)				
Approval	IEC 61643-1 Class III				
Weight	Approx.100g				
Mount	Wall mounting, DIN Rail				

※1: Discharge voltage- Voltage starting surge discharge

※2: L-L - Voltage between line and line

※3: L-G Voltage between line and ground

※4: Protection level - Maximum voltage gauge when surge voltage is applied

※5: Leakage current- Permissible leakage current

2. Signal type

Model		KRT-5-05	KRD-5-05	KRD-24-05
Input signal		TC, Voltage, Current	RTD, Potentiometer(VR), Pulse, Differential(RS485)	
Power supply		5V	5V	24V
Discharge voltage	L-L	10V	10V	35V
	L-G	170V	70V~110V	
Protection level (Up@10kV)	L-L	30V	40V	100V
	L-G	230V	230V	
Maximum load current		100mA	100mA	
Leakage current	L-L	≤10uA(5V)	≤10uA(5V)	≤10uA(24V)
	L-G	≤50uA(100V)	≤50uA(50V)	
Surge capacity		5kA		
Respond time		1nS		
Series resistance		10Ω ± 0.1%, 20ppm/°C		
Ambient temperature		-20~70°C(at non-freezing status)		
Ambient humidity		50~90%RH(at non-freezing status)		
Approval		IEC 61643-21 Category C1, C2		
Weight		Approx.100g		
Mount		Wall mounting, DIN Rail		

Connections

Before wires connecting, first pull arrest up to separate from the socket as below the picture.

Tighten the terminal screws(1,2,3,A,B,C) to the recommended tightening torque of approx. 0.8N m

