



KRONE LSA-PLUS MODULE PROTECTOR

LEPS KMP series of five point protector are specially designed to provide ultimate assurance of system reliability for telecom switching and transmission equipments and other signalling equipment connected at the MDF using KRONE LSA-PLUS disconnect block

- ◆ **Multi-stage protection offers additional safety**
- ◆ **Full range of voltage to suit any particular applications**
- ◆ **Quick and easy plug-in installation**
- ◆ **All mode protection(L-L, L-E)**
- ◆ **High surge rating and wide bandwidth**



Multi-stage protection offers additional safety

- KMP series employed sophisticated hybrid circuitry which not only can discriminate the harmful transient over-voltage from the desire signals but also resulted in exceptional low let-through voltage. It also provides greater assurance of system uptime and lower service costs than the conventional gas discharge tube type protectors. The first stage uses a three pole gas charge tube with fail safe design for over-voltage protection and the second stage is reversible PTC for current limitation. High speed transient suppression diodes are used at the third stage for fine clamping of voltage.

Full range of voltage to suit any particular applications

-KMP series have a variety of voltage models to fulfill users' expectations. They can be used in telecommunications lines like xDSL, DDN, ISDN, PSTN, PCM, E1. It is also an ideal choice for high density distributed industrial control, regulating and measurement networks, and any other twisted pair signal line with voltage operating from 12V to 270V.

Quick and easy plug-in installation

-The KMP series protectors can be easily plugged into the KRONE LSA-PLUS disconnection blocks and are earthed via the earth bar to the back-mount frame.

All mode protection(L-L, L-E)

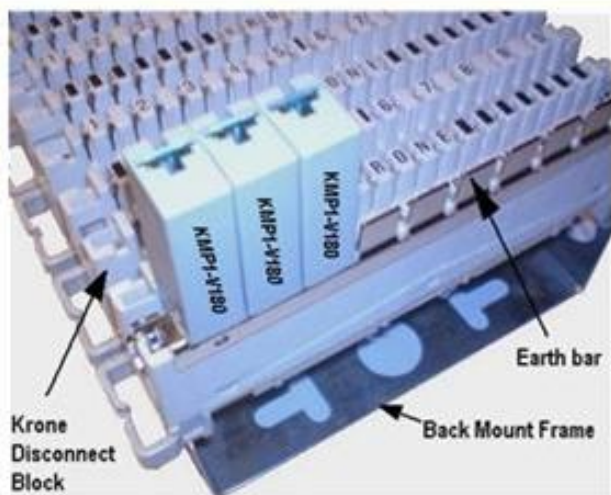
-It offers both line to line (transverse mode) and line to earth (common mode) protection so that the destructive transients will never be able to enter your system.

High surge rating and wide bandwidth

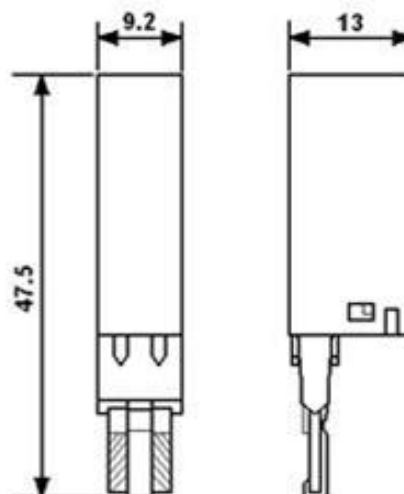
-Its 5KA high surge rating and 20Mbps wide bandwidth can provide the best protection and ensures a smooth data flow in high speed data and signal lines



Installation



Dimensions



General Specifications

	KMP1-V12	KMP1-V24	KMP1-V48	KMP1-V70	KMP1-V120	KMP1-V180	KMP1-V230	KMP1-V270	Units
Max. Operating voltage (DC/AC):	12/8	24/17	48/34	70/48	120/85	180/128	230/160	270/190	V
Max. operating current _(a-a'/b-b') :	80	80	80	80	80	80	80	80	mA
Protection Level at 100V _{S(a/b-e)} :	<15	<30	<70	<110	<160	<290	<340	<380	V
Protection level at 1KV _{S(a/b-e)} :	<30	<60	<120	<190	<220	<450	<480	<500	V
Fail safe response time at 5A _{rms} :	<5	<5	<5	<5	<5	<5	<5	<5	s
Earth leakage current:	<5	<5	<5	<5	<5	<5	<5	<5	μA
Nominal surge rating _(8/20μs, a/b-e) :	5	5	5	5	5	5	5	5	KA
Nominal AC discharge current (50Hz, 1s, a/b-e):	5	5	5	5	5	5	5	5	A
Insertion loss@ Zo=600Ω:	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	dB
Capacitance(1MHz/1V _{rms} , a/b-e, a-b):	50	50	50	50	50	50	50	50	pF
PTC in line resistance :	15	15	15	15	15	15	15	15	Ω
Max. Switching time of PTC@1A _{rms} :	<3	<3	<3	<3	<3	<3	<3	<3	s
Standards compliance:	ITU(CCITT)-TK.17, ITU-TK.44, BS6651-1999 Cat.A.B.C, AS1768-2003 Cat.A.B.C, IEC 61643-21 CP33-1996 Cat.A.B.C, UL497B								
Insulation resistance @100V _(a/b-e, a-b) :	1000MΩ								
Earth connection:	Via 10 position earth bar								
Enclosure material:	Fire retardant ABS or PBT (meet UL94V-0)								
Operating temperature:	-20-60°C								
Weight:	5g								

Notes:

- (1) This KMP1 series has 5 point contacts, with inputs a, b and outputs a', b' and also an earth contact e.
- (2) Other voltage models are available on requested
- (3) For different applications or communication protocols protection, please refer to our product selection guide.