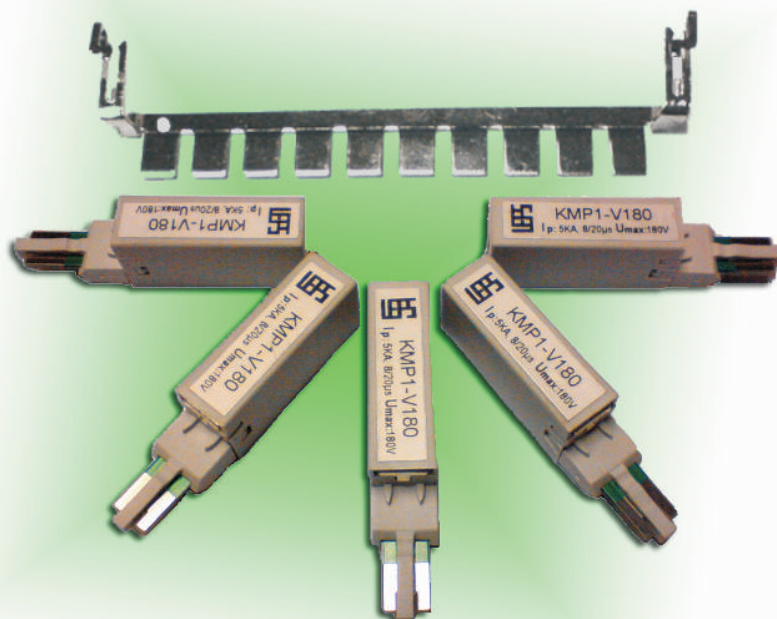


KRONE LSA-PLUS MODULE PROTECTOR



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 signaling equipment connected at the MDF using KRONE LSA-PLUS disconnection module

- ◆ **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.

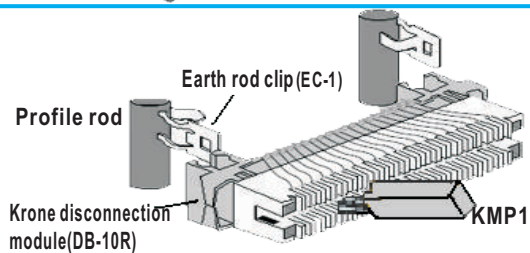
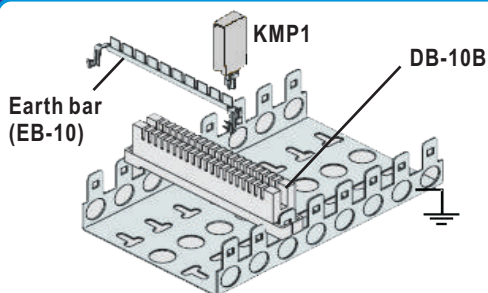
Full range of voltage to suit any particular applications - KMP series have a variety of voltage models to fulfill users' expectations. They can be used in telecommunications lines like xDSL, DDN, ISDN, PSTN, PCM, E1. It is also an ideal choice for high density distributed industrial control, regulating 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 modules and are earthed via the earth bar to the back-mount frame.

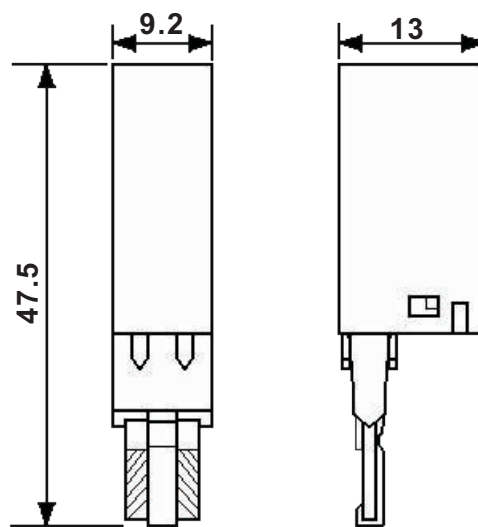
All mode protection(L-L, L-E) - It offers both line to line (transverse mode) and line to earth (common mode) protection so that the destructive transients will never be able to enter your system.

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







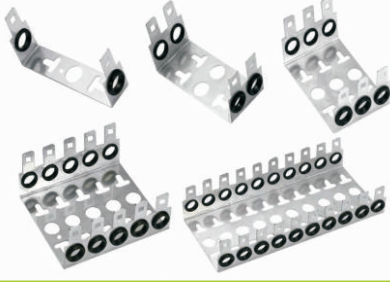
General Specifications

	KMP1-V12	KMP1-V24	KMP1-V48	KMP1-V70	KMP1-V120	KMP1-V180	KMP1-V230	KMP1-V270	Units
SPD class(EN/IEC):	-----TYPE 3/Class III-----								
Max. Operating voltage, Uc (DC/AC):	12/8	24/17	48/34	70/48	120/85	180/128	230/160	270/190	V
Max. operating current, I_L (a-a'/b-b'):	80	80	80	80	80	80	80	80	mA
Voltage protection level, U_p at 100V/s (a/b-e) :	<15	<30	<70	<110	<160	<290	<340	<380	V
Voltage protection level, U_p 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
Nom. discharge current, I_n(8/20μs, a/b-e):	5	5	5	5	5	5	5	5	KA
Nom. 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
Max. Switching time of PTC@1A_{rms}:	<3	<3	<3	<3	<3	<3	<3	<3	s
PTC in line resistance :	15	15	15	15	15	15	15	15	Ω
Standards compliance:	TU(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):	-----1000M-----								
Earth connection :	-----Via 10 position earth bar-----								
Case material:	-----Fire retardant ABS or PBT (meet UL94V-0)-----								
Operating temperature, Tu:	----- -40 – 80 -----								
Weight:	5	5	5	5	5	5	5	5	g

Note: This KMP1 series has 5 point contacts, with inputs a, b and outputs a', b' and also an earth contact e.

ORDERING INFORMATION



MODEL	PRODUCT DESCRIPTION	PHOTO/DRAWING
KMP1-V5	Single pair, 7V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V12	Single pair, 17V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V24	Single pair, 34V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V48	Single pair, 68V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V70	Single pair, 7V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V130	Single pair, 180V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V180	Single pair, 270V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
KMP1-V270	Single pair, 350V, 5 point protection, Krone LSA-PLUS disconnection module signal/data module protector	
EB-10	Earth bar, ten ways, one for 10 pieces of KMP1, KTP1 or KDP1	
DB-10B	Krone Disconnection module for mounting on back mount frame	
DB-10R	Krone Disconnection module for mounting on steel rod	
EC-1	Earth clip, one pair, for mounting on steel profile rod, use with DB-8R/10R	
MF-1	Back-mount frame, one way, for holding one Krone disconnection module	
MF-2	Back-mount frame, two ways, for holding two Krone disconnection module	
MF-5	Back-mount frame, five ways, for holding five Krone disconnection module	
MF-10	Back-mount frame, ten ways, for holding ten Krone disconnection module	
MF-X	ANY NUMBER OF WAYS ARE AVAILABLE ON REQUEST	
* Other voltage levels are available on request		



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