

COP10-1KLP

COP10-1KLP (Cable Overvoltage/Overcurrent Protection) is a complex configuration for group protection of telecommunication lines. It is designed to protect cables and connected equipment against overvoltages and overcurrents generated by atmospheric discharges (cloud-to-cloud i.e. lightning, or cloud-to-earth i.e. thunder), inductive influence of high voltage equipment (power distribution lines, transformer stations etc.) and cross-contact between power line and telecommunication line. **COP10-1KLP** is inserted at the front side of **Krone LSA Plus** and **LSA Profile** disconnection modules on the distribution frames (usually placed in indoor and outdoor cabinets or wall mounted connection boxes).

This configuration has three-pole Gas Discharge Tubes (GDT) with external fail-safe clip for overvoltage protection and PTC (Positive Temperature Coefficient) thermistors for overcurrent protection. Two poles of each line are connected to the network (cable side), two poles to the exchange (jumper side) and the common grounding is realized by side contacts in touch with the frame. Overvoltage and overcurrent resettability is provided using specific components and configurations.

COP10-1KLP is recommended especially for the areas with aerial telecommunication network. This protection device complies with ITU-T recommendations K.20, K.21 and K.30.

COP10-1KLP TECHNICAL SPECIFICATIONS

Protection type		Overvoltage and overcurrent
DC spark-over voltage		230 V
Impulse discharge current (8/20 μ s)	nominal	10 kA
	maximal	20 kA
Surge response voltage (10/700 μ s, $U_p=4$ kV)		450÷600 V peak
Hold-on current		145 mA
Typical trip time ($U_{ac}=230$ V, 50 Hz, T=900 s)	$R_f=600 \Omega$ $I_f=0,383$ A	30÷50 s
	$R_s=200 \Omega$ $I_s=1,15$ A	2÷3 s
	$R_n=10 \Omega$ $I_n=23$ A	6÷14 ms
Insulation resistance		$> 10^{10} \Omega$
Contact resistance		< 15 m Ω
Response time		< 500 ns
Signal attenuation		$< 0,5$ dB
Number of protected lines (2 x 1)		10
Housing material		Self-extinguishing polycarbonate UL94 -V0 rated
International recommendations		ITU-T (Vol. IX K.20, K.21, K.30)
ZJPTT Certificate No. 021-1414/03		

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