Coupler Specifications

Overhead

Manufacturer - Arteche



Nº 0608367

TESTS CERTIFICATE

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COUPLING TYPE: CAPACITIVE

MODEL: OVERCAP-S-24 INSULATION V.: 24 KV.

STANDARDS: IEC-60358 IEC-61334-3-22	INDIVIDUAL ELECTRIC TESTS							
,	TEST VOLTAGE (DIELECTRIC STRENGTH): Applied during 1 minute between primary terminal and earth		50	KV.				
FRECUENCY: 50 Hz	TEST VOLTAGE (POWER FREQUENCY): Applied during 1 minute between secondary terminal and earth		5	KV.				
	PARTIAL DISCHARGES TEST	≤ 50 pC	28,8	KV.				

		manage of a	INSERT	ION LOSS	ES		
DIECE NO		INSERTIO	ON LOSSES < THAN				
PIECE N°.	4Mz	10Mhz	20Mhz	30Mhz	40Mhz	RESULT	TESTED BY
0608367/14	3dB	3dB	3dB	3dB	3dB	OK	Borja

Date: 12/06/2006

Certified Correct:

Igor Cheteri

OVERCAP S-24



CAPACITIVE COUPLING SOLUTION FOR OVERHEAD MEDIUM VOLTAGE LINES

Technical Specifications

TYPE	CAPACITIVE COUPLER						
Insulation Voltage	State of the		24 k	V			
Frecuency range	2 – 40 MHz						
Insertion losses		< 2dB					
Impedance Line side PLC equipment side	Depends on Overhead Line 's Topology (200 Ω suppos 50 Ω						
Line connection	Hot line clamp. Over metallic base on the pole						
earth agus an chuir an thursan agus an tha an an tha an an tha an an an tha an a	mm AWG						
Cable diameter	Min 5,3	M:	-	Min 3	Max 5/0		
PLC connection	3,3	STORESON	NC con	MARKED CONTROL	370		
Earth connection	1 1010100000000000000000000000000000000	SERVICE DEPOSE	16 A2 s	12 II DE PROPRIES			
Dimensions Height Diameter Leakage distance Weight	318 mm Ø112 mm (max) & Ø60 mm (base) 875 mm 2,85 Kg (with connector)						
Operating and storage conditions	-Temperature: from -20 to +85°C and relative humidity from 10 to 100% according to EN 60870-2-2 class C2 -Storage: from -40 to +85°C and relative humidity from 10 to 100% according to EN 60870-2-2 class C3 -Ageing: according to IEC 1109						
Materials Insulation Circuitry	Silicone Polyamide 6						
Drain Coil Impedance at 50/60 Hz Current carried at 50/60 Hz	<20 Ω -1 Arms permanent -50 Arms for 0.2 s (according to IEC 61334-3-22)						
Gas surge arrester Discharge current(ISN)	5kA (8/20μs) accord	ing to II	EC 60060-	ſ		
Tests Type tests AC Voltage test, dry AC Voltage test, wet Lightning impulse voltage test Capacitor discharge	50kV 50kV 125kV 125kV	9.2 9.2 9.2	.1 .2 .5	6	ANSI C93.1 (equivalent 6.2.1.2 6.2.1.3 6.2.1.4		
Mechanical tests Cantilever Terminal Torquing		ocedure	detern	nined accor			
Routine test Dielectric strength Partial discharges Galvanic insulation	50kV <50pC for 28	3,8 kV	9.1		6.2.6 6.2.7		

Coupler Specifications

Overhead

Manufacturer - IBEC



OHC10K - Overhead Medium-Voltage BPL Coupler

Specifications

- 12.5 KV Nominal Line Voltage, (12–14.5 KV)
- Coupler and Arrester in one
- Frequency Response: 3-40 MHz
- Coupling Loss: 3-4 dB
- Input Impedance: 50-75 Ohms unbalanced coax (F-type female)
- Line Impedance: 400 ohms
- Ground lead/Coax Isolator Prevents system fault in unlikely event of device failure
- Certified to ANSI/IEEE C62.11
- 10KA surge rating
- Surge Tested as follows:
 - 20 current surges of 10 kA crest, 8/20 μs waveshape followed by 2 current surges of 40 kA crest, 8/20 μs waveshape
 - o 2 current surges of 100 kA crest, 4/10 µs waveshape
 - o 20 current surges of 250 A crest 2000 µs duration rectangular wave
- Housing Insulation withstand ratings:
 - 90 kV Impulse (1.2/50 uS)
 - o 62 kV Dry (1 min)
 - o 46 kV Wet (10 sec)

Coupler Protective Characteristics

Doting	1400)/	Front-of-wave Protective	Maximum Discharge Voltage (kV crest) 8/20 µs Current Wave						
Rating (kV rms)	MCOV (kV rms)	Level* (kV crest)	1.5 kA	3 kA	5 kA	10 kA	20 k	40 kA	
10	8.40	34.4	25.8	27.4	28.6	31.2	34.5	38.9	

^{*}Based on 10 kA current impulse that results in a discharge voltage cresting in 0.5 μ s.

Dimensions: 13 in x 2 in Weight: 2.2 Kg, 4.8 lbs

U.S. patents 5,864,284 6,040,759 U.S. and Foreign patents pending



Coupler Specifications

Underground

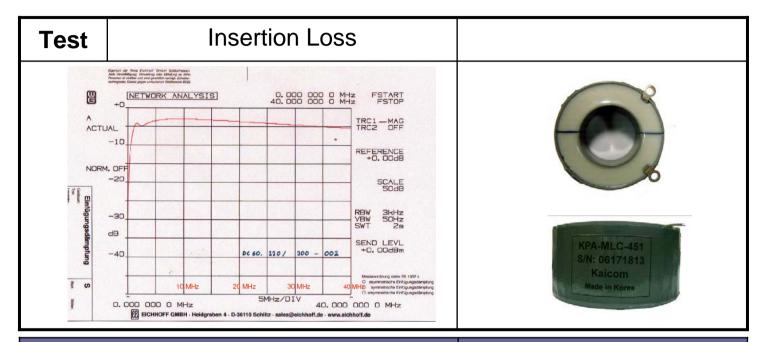
Manufacturer - KAICOM



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Kaicom Power Line Communication

*** KPA-MLC-451 MV Inductive Coupler**



Parameter	Details			
Nominal voltage	24kV-36kV insulated cable			
Coupling mode	Phase-to-phase, Phase-to-earth			
Cable diameter	< 44 mm			
Operating Frequency Range	2 - 40 MHz			
Insertion Loss	< 3dB			
Connecting cable Impedance	50 Ω			
Rated lightning impulse withstand voltage	5kV			
Insulation resistance	>100M Ω			
Dielectric strength	3kV			
Nominal current 50Hz	360A			
Operating temperature	-20°C / +60 °C			
Relative humidity	100%			
Connection to communication terminal	BNC connector			

