

Decoupling set DC-S17CL for voltage spike testing

Revised: 30.August 2011

1 General information DC-S17CL

The de-coupling set is used for voltage spike tests to protect the supply sources or auxiliary equipment.

The DC-S17CL can be used for testing to the following standards: DO-160 Section 17 MIL-STD-461 test CS106 EURO Fighter SPE-J-000-E-1000 test CS-EFA-4





The DC-S17CL consists of: 2 de-coupling boxes "PARALLEL INJECTION" and two boxes "SERIAL INJECTION".

The set covers the frequency range: d.c., 50, 60, 400 Hz.

1.1 Technical data

"PARALLEL INJECTION" Module	2 boxes	De-coupling at parallel injection
Maximum rated current	10A	
Voltage	Max 230V dc, 50, 60Hz depending on the protection path	1 box 1.8mH
Voltage	Max 115V 400Hz	2 boxes parallel 0.9mH
SURGE 1.2/50 µs	6000V	

"SERIAL INJECTION"	2 boxes	De-coupling at serial
Modules	2 x 10µF per box	injection
Voltage	Max 230V dc, 50, 60Hz	Max. 115V 400Hz
Single phase	1 x 10µF	
Three phase	3 x 10µF	

2 Application of the DC-S17CL

2.1 Test set-up "serial injection with CN-MIG-BT"



To comply with CS-EFA-4 testing a "Synch Adapter" must be installed between decoupling "SERIAL INJECTION" and power source.

2.2 Test set-up "parallel injection"



To comply with CS-EFA-4 testing a "Synch Adapter" must be installed between decoupling "PARALLEL INJECTION" and power source.

3 Standard accessory, dimensions

3.1 Included articles, dimensions

DC-S17CL (Article No. 103674)

Mech	anical Din	nensions			
Unit Height:		В			
Length:		0 cm			
Width:		0 cm			
Heigh	it:	0 cm			
Net Weight:		7 kg			
Inclu	ded Article	35			
Accor	According to STL-Variante 20, STL-Version 1				
Qty	PN	Description			
1	103191	Standard accessories pack			
1	103194	CD-UM-IN-ALL includes all User Manuals and Instruction sheets			
		of all EMC PARTNER AG sales products.			

3.2 Standard accessories:

Accessories to DC-S17CL (Article No. 103674) According to OP-Variante 1, OP-Version 1

1104802Standard calibration report1104839Broschure Military Test System

Qty 4	PN 100279	Description MC protected banana plug, blue	Weight (kg) 0	Length (cm) 0	Width (cm) 0	Height (cm) 0
6	100281	MC protected banana plug, black	0	0	0	0
4	103101	MC earth cable with banana plug 90°	0	75	0	0
4	103171	MC safety cable with protected banana plug, blac	k 0	0	0	0
4	103180	MC safety cable with protected banana plug, blue	0	15	0	0

4 Recycling / Disposal

4.1 RoHS directive 2002/95/EG

The DC-S17CL complies with the directive 2002/95/EG (RoHS - Restriction of certain Hazardous Substances).

From December 2005, all EMC Partner products either hand soldered or by machine are produced using lead-free solder.

4.2 WEEE directive 2002/96/EG

The EMC Partner DC-S17CL, is exempted from the directive 2002/96/EG (WEEE) under category 9.

The product should be recycled through a professional organisation with appropriate experience for the disposal and recycling of electronic products. EMC Partner are also available to help with questions relating to the recycling of this product.

4.3 Information for dismantling



There is no special danger involved in dismantling the DC-S17CL.

4.4 Parts which can be recycled

The DC-S17CL contains parts made from steel, aluminium, PVC, two-component sealing compound. The impulse capacitors are filled with non-poisonous mineral oil. The various parts can be separated and recycled.

4.5 Parts which can not be recycled

All parts in the DC-S17CL can be recycled.

5 Service Information

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