Edco PHC Series

Two-Pair Signaling Circuit Protector (Modular)

The Edco PHC Series is designed to protect two pairs of wires specifically for alarm and security systems where operating currents can be as high as 5 Amps. Electrically, the Edco PHC Series is a rugged series hybrid implementing a staged complement of MOVs, copper wound inductors and Silicon Avalanche Diodes. This design reduces series resistance to 0.2 ohms per pair. These products are intended to mate with an Edco PCB1B-WKEY gold-plated female terminal connector.

The Edco PHC modules plug into a base assembly (Edco PCB1B-WKEY). The base assembly can be mounted to any flat surface and should be located as close as practical to the protected equipment. Terminal 1 and/or terminal 10 should be connected to Building-Approved Ground with 12 or 10 gauge solid wire.



EDCO PCB1B-WKEY BASE SOLD SEPARATELY

General Technical Specifications

Operating Voltage	12, 18, 24, 30, 36, 52, 70, 120 VDC		
Clamping Voltage	15, 20, 30, 36, 43, 60, 100, 150 VDC		
Operating Current	5 A		
Peak Surge Current	10 kA (8 x 20 μs)		
Frequency Range	0 to 10 MHz		
Insertion Loss	< 0.1 dB at 10 MHz		
SPD Technology	MOV, SAD, w/ Series Inductor		
Connection Type	Terminal block w/ compression lugs Terminals accept up to 10 AWG		
Operating Temperature	-40°C to +85°C		
Dimensions (in / mm)	3.7" H x 1.75" W x 2.375" L [94 x 44.45 x 60.33 mm] (PHC + PCB1B-WKEY Base)		
Weight (oz / kg)	8 oz [0.23 kg]		
Certifications	UL 497B		

Caution

 $Do \ not \ place \ this \ product \ in \ service \ on \ any \ signal \ line \ capable \ of \ supplying \ more \ than \ 5 \ Amps \ continuously.$

Attention

Ne pas placer ce produit dans le service sur une ligne de signal capable de fournir en permanence plus de 5 ampères.

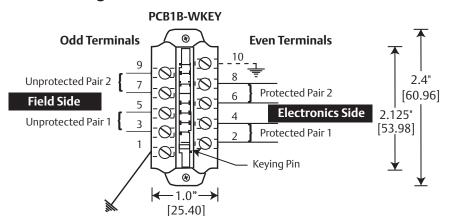
Features

- Three-stage hybrid protection
- Differential protection
- Common mode protection
- Plug-in module
- Automatic recovery
- Fast response time
- Continuous current up to 5 Amps
- UL 497B listed
- Requires Edco PCB1B-WKEY base
- PC642PTU (Pass Thru Unit) available for troubleshooting
- 5 year warranty



Installation Instructions

Terminal Assignments



Ground Terminal 1 or 10 to Building Approved Ground (preferably AC Power safety ground).

DO NOT daisy chain grounds. NOT intended for shield termination. Install ground in accordance with all applicable codes.

Ordering Information

How to Specify the Appropriate Model

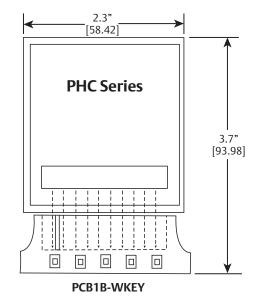
MODEL	OPERATING VOLTAGE	CLAMPING VOLTAGE	
PHC-015	12 VDC	15 VDC	
PHC-020	18 VDC	20 VDC	
PHC-030	24 VDC	30 VDC	
PHC-036	30 VDC	36 VDC	
PHC-043	36 VDC	43 VDC	(for Horn, Bell, Strobes)
PHC-060	52 VDC	60 VDC	
PHC-SP70	70 VDC	*100 VDC	
PHC-130RMS	120 VDC	*150 VDC	(for 120 V Signal Lines)
		*Not III Listad	-

*Not UL Listed

DANGER!

Only qualified personnel should install or service this system. Electrical safety precautions must be followed when installing or servicing this equipment. To prevent risk of electrical shock, turn off and lock out all power sources to the unit before making electrical connections or servicing.

Seulement le personnel qualifié doit installer ou maintenir ce systéme. Des précautions de sécurité en électricité doivent être suivis lors de l'installation ou de la maintenance de cet equipement. Pour eviter tout risque de choc électrique, débranchez et verouiller toutes les sources d'alimentation de cet equipement avant de.



APPLICATIONS	PART NUMBER	
24 V Horn, Strobe, Bell	PHC-043 & PCB1B-WKEY	
70 V Speaker Lines	PHC-SP70 & PCB1B-WKEY	

Emerson Network Power Contact information

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