

POWER MONITORING & PROTECTION

DATA LINE SURGE PROTECTOR DRS, PC642C SERIES

DESCRIPTION

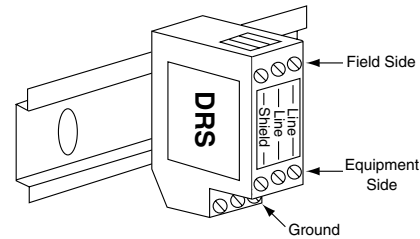
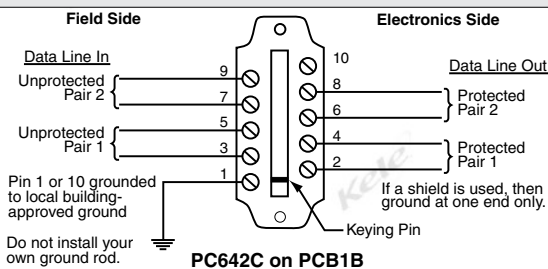
The EDCO Model PC642C Series surge suppressor is a dual-pair (four wire) and the DRS Series is a single pair (two-wire) DIN rail mount module implementing three-stage hybrid technology. These modules protect against over-voltage transients with gas tubes and silicon avalanche components. In addition, sneak and fault currents are mitigated with automatic resetting fuses (PTCs). The PTCs increase resistance several orders of magnitude when over currents are present and return to normal when over-currents are removed. The ability to self-restore in this manner significantly increases suppressor performance and survivability.

FEATURES

- Lightning protection for low voltage signal lines
- Three-stage protection
- Plug-in and DIN rail mount modules
- Automatic recovery
- Nanosecond response time



WIRING



SPECIFICATIONS

Voltage Clamp	(±10%) 8, 15, 30, or 36V
Response Time	<1 ns
Peak Surge Current	<10 kA (8 x 20 μs)
Life Expectancy	>100 occurrences @ 2000A, 8 x 20 μs
Series Resistance	5Ω nominal
Dimensions	
PC642C, PCB1B	2.5"H x 1.0"W x 2.0"D (6.1 x 2.5 x 5.1 cm)
DRS	2.95"H x 0.8"W x 2.35"D (7.5 x 2.0 x 6.0 cm)
Capacitance	1500 pF; PC642 w/ LC option: 50 pF

Operational Current Protector	Maximum 150 mA @ clamp voltage
Primary	Three-element gas tube (GDT)
Secondary	Rugged solid-state avalanche diode (SAD)
Third	Positive temp coefficient device (PTC)
Operating Temperature	-40° to 185°F (-40° to 85°C)
Weight	0.06 lb (0.03 Kg)
Approvals	UL497B, UL File #E175287
Warranty	1 year

ORDERING INFORMATION

MODEL	DESCRIPTION
PC642C	Dual-pair (four-wire) surge protector, base mount (PCB1B required)
DRS	Single-pair (two-wire) surge protector, DIN rail mount
	-008 Clamp voltage, 8V
	-015 Clamp voltage, 15V (DRS Only)
	-030 Clamp voltage, 30V (PC642C Only)
	-036 Clamp voltage, 36V
	-LC Low capacitance option (PC642C only)
PCB1B	Mounting/connector base for PC642C