



SurgeFreeTM

Data Line Protection

DLP-25 with DIN Rail Mount

Critical Circuit Protection

MCG's DLP-25 series is designed to protect critical control circuits from lightning induced transients. The DLP-25 series comes in three offerings – light duty, standard duty, and heavy duty and protects up to five wires. The DLP-25 uses a compact aluminum DIN rail mount enclosure. If a DIN rail does not exist in your application, a DIN rail bracket is provided for mounting to any flat surface.



WARRANTY

20-Year Warranty.

Light Duty Protection

DLP-25-xxV – New “Light Duty” DIN rail mount protector protects up to five wires. A typical model buildup is DLP-25- 6V where 6V is the voltage of the system. This protector's capacity is 5kW (10 x 1000 microsecond waveform) per wire. Although it is rated as a light duty protector, it is only light duty relative to the other, heavier duty model types in this family. Voltages available: 6V, 12V, 25V, 36V, 55V, 100V, 150V, 180V.

Application: There is no series resistance specified on this model. This is intentional and makes this product geared towards applications with high nominal system currents. For example, some irrigation systems use 1 or 2 amps of nominal system current. This would damage the series resistor in our other hybrid DLPs. It can also be used on systems where no series resistance is permitted.

Standard Duty Protection

DLP-25-xxV2 – New “Standard Duty” DIN rail mount protector. A typical model buildup is DLP-25- 6V2 where 6V is the voltage of the system and 2 is the series resistance. This is a hybrid protector with 10kA (8 x 20 microsecond waveform) per wire capacity. Voltages available: 6V, 12V, 25V, 36V, 55V, 100V, 150V, 180V.

Application: Used to protect equipment with a system current no more than 350mA and bandwidth of no more than 10Mbps. The unit comes in a small, DIN rail mount package and protects five wires.

Heavy Duty Protection

DLP-25-xxV5 – New “Heavy Duty” DIN rail mount protector. A typical model buildup is DLP-25- 6V5 where 6V is the voltage of the system and 5 is the series resistance. This is a hybrid protector with 20kA (8 x 20 microsecond waveform) per wire capacity. This unit is mostly hand built due to the physically large components that are used. Voltages available: 6V, 12V, 25V, 36V, 55V, 100V, 150V, 180V.

Application: Used to protect the most critical systems from transients, designed specifically for use in high exposure applications. Protects equipment with a system current no more than 350mA, except for high-speed data systems. The unit comes in a small, DIN rail mount package and protects five wires. This model is designed for to 4-20mA loops, I/O ports, sensors, mainframes, process controllers, and other complex instrumentation applications.

922 Middletown Rd, New Stanton, PA 15672 USA - Phone: (724) 925-8181 - Fax: (724) 925-1764

SENTINEL POWER INC. Toll Free: 1-800-784-7989 - www.sentinelpowerinc.com - Email: ken@sentinelpower.com

Specifications

Ordering Information

Model Name (Light Duty)	Model Name (Standard Duty)	Model Name (Heavy Duty)	Max. Applied Voltage, L-Gnd (DC or Peak)
DLP-25-6V	DLP-25-6V2	DLP-25-6V5	6.9
DLP-25-12V	DLP-25-12V2	DLP-25-12V5	16
DLP-25-25V	DLP-25-25V2	DLP-25-25V5	30
DLP-25-36V	DLP-25-36V2	DLP-25-36V5	39
DLP-25-55V	DLP-25-55V2	DLP-25-55V5	57
DLP-25-100V	DLP-25-100V2	DLP-25-100V5	113
DLP-25-150V	DLP-25-150V2	DLP-25-150V5	161
DLP-25-180V	DLP-25-180V2	DLP-25-180V5	188

Number of Protected Circuits: 5

Protection Modes: L-L, L-G

Connection: Series Connected. (Note: Light Duty models
may be shunt connected.)

Rated Voltage: Various (See Table Above.)

Certification: UL497B Listed

Series Resistance Per Circuit: 5.6 Ohms (Heavy Duty Models)
2.4 Ohms (Standard Duty Models)
0 Ohms (Light Duty Models)

Rated System Current Per Circuit (Std/Heavy Duty): 350 mADC Maximum

Rated System Current Per Circuit (Lt. Duty): 5 ADC (Series Connected)

Rated System Current Per Circuit (Lt. Duty): Unlimited (Shunt Connected)

Surge Capacity per Circuit, Light Duty Model: 5000 Watts (10x1000 microsecond)

Surge Capacity per Circuit, Standard Duty Model: 10kA (8x20 microsecond)

Surge Capacity per Circuit, Heavy Duty Model: 20kA (8x20 microsecond)

Temperature (Operating/Storage): -55° to +65°C / -55° to +75°C,
0% to 95% non-condensing RH

Protection Type: Bidirectional

Connection: Touch-Safe Screw Terminals
(Stripping Length 0.315"/8mm)

Wire Gauge Range: 22 - 12 AWG

Dimensions, Protector, Overall: 2.95" x 2.83" x 1.86 (L x W x D)
74.9mm x 71.9mm x 47.3mm (L x W x D)

Dimensions, DIN-Rail section (provided): 3.0" L (76.2mm)

Mounting: DIN-Rail Mount (DIN 35 Type)

Enclosure: Aluminum

Warranty: 20 Years

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