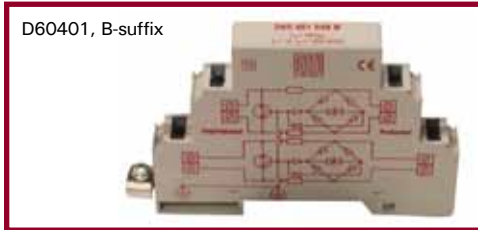
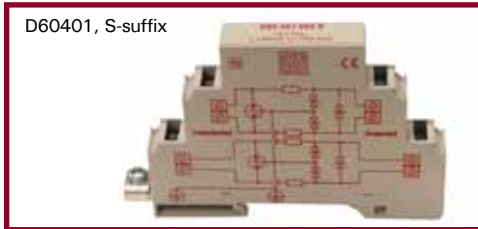




D60401 DIN Rail SPD

Low Voltage, Series-Connected



- These premium SPDs are intended for use on a wide range of low voltage applications inside appropriate enclosures, including high speed communication circuits. Terminals are finger-safe.
- D60401 SPDs include three stage surge suppression in a Pi (π) configuration:
 - 1st Stage: Parallel-connected Gas Discharge Tubes
 - 2nd Stage: Series-connected resistor (includes inductor on 'S' models)
 - 3rd Stage: Parallel-connected Transorbs
- Two D60401 SPD families are offered:
 - S-suffix: 'Standard' - for Analog, DC voltage, or low-frequency data to 600kHz
 - B-suffix: 'Bandwidth' - for Digital or High-Frequency Data up to 35MHz

Features

Surge Current Rating:	15kA
UL 96A Lightning Protection Master Label	Yes
Rated Operating Current IL (mA):	800mA (1000mA for B-suffix models)
Number Wires Protected:	up to 4 wires (2 pair)
Wire Size:	14 AWG - 26 AWG
Response Time (ns):	< 1 ns
Mounting Type:	35mm DIN rail
Temperature Rating:	-40°F to 176°F (-40°C to 80°C)
Enclosure Material:	Thermoplastic UL 94-V0
Enclosure:	NEMA 1 (IP 20)
Dimensions:	3.9" x 2.6" x 0.47" (99mm x 65mm x 12mm)
Weight	4.75oz (135g)
Thermal Protection:	Yes
Color:	Gray
UL 497B Listed:	UL File QVGQ.E244864
CE Mark	Yes
IEEE C62.41-2002, Cat C, B & A	Yes
IEC 61643-21 Compliant	Yes
IEC Max. Discharge Current I_{max} (8x20 μ s)	15kA
IEC Max. Discharge Current I_n (8x20 μ s)	10kA
IEC Max. Lightning Pulse I_{imp} (10x350 μ s)	2.5kA

Model Number Configurator

D60401-

Voltage Codes

005 = 5Vdc (3.5Vac)	S (Standard) = Analog, DC
012 = 12Vdc (8.5Vac)	B (Bandwidth) = Digital up to 35MHz
024 = 24Vdc (17Vac)	
048 = 48Vdc (34Vac)	
060 = 60Vdc (42Vac)	

Suggested Applications

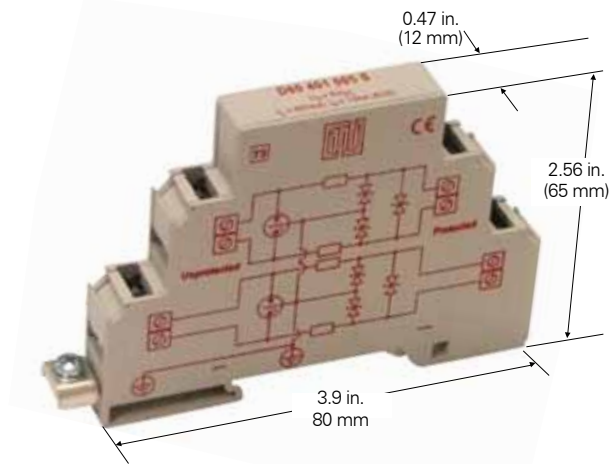
Protocol	Nominal Voltage	Suggested SPD
RS-232	+/- 25V	D60401-024S
RS-423	+/- 6V	D60401-012S
RS-422	-0.25V - +6V	D60401-012B
RS-485	-7V - + 12V	D60401-012B
Modbus (usually RS-485)		D60401-012B
Irrigation/Sprinkler Valves	24Vac	D60401-048S
4 - 20mA	Need to determine. Could be 24Vdc, 12Vdc, etc	Default: D6401-048S
Don't know?	Can't Find Out?	Default: D60401-048S

Voltage Codes

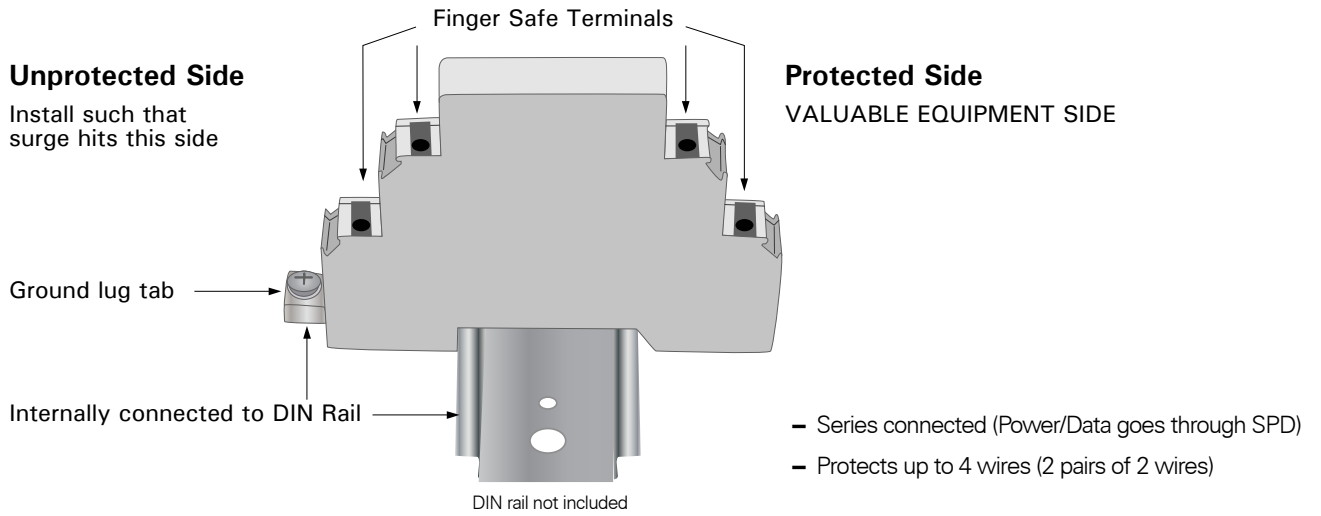
	"005"	"012"	"024"	"048"	"060"
Nominal Operating Voltage (Vdc / Vac)	5 / 3.5	12 / 8.5	24 / 17	48 / 34	60 / 42
MCOV (Vdc)	7	15	28	52	64
Clamping Voltage (Vdc)	<12	<27	<46	<85	<105
Voltage Breakdown (Min/Max Vdc)	7/9	16/20	29.5/36.5	55.5/36.5	67.5/82.5
IEC Voltage Protection Level (Up @ 1kV/ μ s, Vdc)	12	27	28	52	64
Maximum Leakage Current (μ A)	200	5	5	5	5



Dimensions



Information



Typical 4-Wire Installation

