

Protect your 4-20mA analog signal loops from harmful voltage surges with the ASI DM24-S2A Surge Protector. Designed for industrial automation, process control, and instrumentation systems, this compact 6.2mm-wide DIN rail-mounted protection device ensures maximum signal integrity and system reliability.

Featuring three-stage circuit protection, the ASI DM24-S2A delivers advanced transient voltage suppression, safeguarding sensors, transmitters, and PLC inputs from damaging surges, spikes, and electrical noise. With a 500A surge rating, this high-performance protector defends critical analog signals against electrical disturbances caused by lightning strikes, power fluctuations, and switching transients.

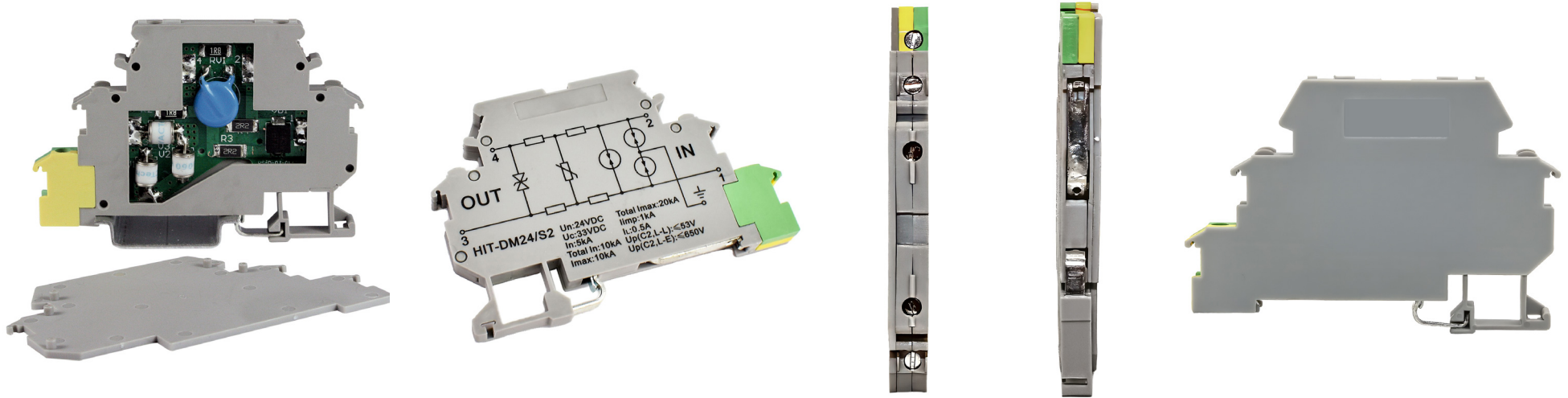
The space-saving DIN rail mount design allows for quick installation in control panels and industrial enclosures, making it ideal for engineers, system integrators, and automation professionals looking for reliable surge suppression.

Key Features & Benefits:

- 4-20mA Analog Loop Surge Protection – Prevents damage to sensitive industrial signal circuits.
- Three-Stage Circuit Protection – Offers superior transient suppression for enhanced reliability.
- 500A Surge Rating – Provides robust defense against high-energy surges and transient events.
- Compact 6.2mm DIN Rail Mount Design – Saves panel space and simplifies installation.
- Fast Response Time – Ensures immediate protection against voltage fluctuations.
- Industrial-Grade Reliability – Built for long-term operation in harsh environments.
- Compatible with Industrial Automation Systems – Works seamlessly with PLCs, sensors,

Technical Data	
Nominal Voltage (U _N)	24 V
Rated Voltage (Max. Continuous DC Voltage) (U _C)	33 V
Rated Voltage (Max. Continuous AC Voltage) (U _C)	23 V
Operating Temperature Range	-40°C...+80°C
Wire Range	0.2 mm ² ~ 2.5 mm ²
Nominal Current (I _L)	500 mA
Lightning Impluse Current (10/350) Per Line (I _{imp})	1 kA
Nominal Discharge Current (8/20) Per Line (I _n)	5 kA
Nominal Discharge Current (8/20) Total (I _n)	10 kA
Output Voltage Limit 1000 V/μs Line-Line (U _p)	≤ 45 V/≤ 600 V
Output Residual Voltage 8/20 μs Line-Line (U _p)	≤ 53 V/≤ 600 V
Series Impedance Per Line (R)	4Ω
Response Time Line-Line (T _A)	≤1 ns
Response Time Line-PG (T _A)	≤ 100 ns
Mounting	35 mm DIN Rail in accordance with EN50022/DIN 46277-3
Enclosure Material	Gray Thermoplastic, UL 94-V0
Protection Class	IP20
Enclosure Size	79.6 mm (D), 6.2 mm (W), 54.6 mm (H)

Additional Photos



Drawings/Diagrams

Basic Circuit Diagram

