

General Specifications

Electrical Characteristics

Characteristic	Value
Rated input voltage	24 Vdc
Input voltage limits	20.4–28.8 Vdc
Acceptable voltage drop	≤ 7 ms
Power consumption	≤ 6.8 W
In-rush current	≤ 30 A
Voltage endurance between power terminal and functional ground (FG)	1,000 Vac 20 mA for 1 minute
Insulation resistance between power terminal and functional ground (FG)	10 MΩ or higher at 500 Vdc

Physical Characteristics

Characteristic	Value
Ambient operating temperature (cabinet interior and panel face)	–10 °C to +55 °C (14–131 °F)
Storage temperature	–40 °C to +85 °C (–40 °F to +185 °F)
Relative humidity	95 % without condensation (non-condensing, wet bulb temperature 55 °C (131 °F) or less)
Air purity (dust)	≤ 0.1 mg/m ³ (≤ 10 ⁻⁷ oz/ft ³) (non-conductive levels)
Corrosive gases	Free of corrosive gases
Atmospheric pressure	800–1,114 hPa (2000 m (6,500 ft) or lower)

Mechanical Characteristics

Characteristic	Value
Vibration immunity (operating)	IEC 60068-2-6 1 gn (1 g) 5–150 Hz (maximum 3.5 mm (0.13 in.))
Protection (front panel)	IP65 (IEC 60529)
Protection structure	Type 4X indoor, installed on a panel
Protection (rear panel)	IP20 (IEC 60529)
Shock immunity (operating)	IK05 (IEC 60068-2-75) 15 gn (1 g) 11 ms
Cooling method	Natural air circulation
Weight	0.25 kg (0.55 lb.)
Color	Front bezel: dark gray
Material	PC/PBT and PAA

Electrical Environment Specifications

Characteristic	Value
Noise immunity	Noise voltage: 1,000 Vp-p Pulse width: 1 μs Rising time: 1 ns
High energy surges	2 kV CM, 0.5 kV DM on DC power supply 2 kV CM on shielded cables
Electrical fast transient burst	2 kV CM, 2 kV DM on DC power supply 1 kV on shielded cables
Radiated radio frequency electromagnetic field	10 V/m / 80 MHz to 2 GHz Sinus amplitude modulated 80 % 1 kHz + internal clock frequency
CM: Common Mode DM: Differential Mode	