SIS 3 Series

Relay Key Data
- PCB relay with forcibly guided contacts
- Protective separation between control and load circuit (leakage and creepage distances >6 mm)
- IEC 61810-3 Type A
- Double and reinforced insulation between the contacts
- Contact mounting: SIS212 2 NO / 1 NC
- Small external dimensions
- Nominal coil power 0.6 W
- Holding coil power 0.18 W
- Coils for railway applications according to EN 50155 on request

Dimensions
- Switching voltage range 5 to 250 VDC / VAC
- Inrush current max. 30 A for 20 ms
- Switching current range** 3 mA to 6 A

Contact Data
- Contact resistance (as delivered)
- Contact lifetime for NO Contacts
  - Mechanical endurance >10x10^6 operations
  - Switching frequency, mechanical 15 Hz
  - Response time (all NO closed) typically 10 ms
  - Bounce time of NO contact typically 2 ms
  - Resistor load 2A / 250 VAC
  - Switching voltage open 0.3 VDC / 50 Hz / 1 min
  - Switching voltage closed 0.3 VDC / 50 Hz / 1 min

Standard coils for direct current
- (other voltages on request)
- Nominal voltage 150 V
- Drop-out voltage 50 V at 20 °C
- Current limit 0.2 A at 20 °C

Circuit Diagram (relay top view)

Insulation Data
- Basic insulation at 250 VAC
- Air and creepage distance >4 mm
- Test voltage 2500 V / 50 Hz / 1 min
- Double or reinforced insulation at 250 VAC
- Air and creepage distance >5.5 mm
- Test voltage 4000 V / 50 Hz / 1 min
- Double or reinforced insulation at 250 VAC
- Air and creepage distance >8 mm
- Test voltage 4000 V / 50 Hz / 1 min
- Test voltage contact open 1500 V / 50 Hz / 1 min

Load Limit Curve with Direct Current

Additional Data
- Resistance to short circuiting contacts (10-200 Hz) NC > 3g
- Vibration resistance NO > 7g
- Resistance to air and creepage distance >8 mm
- Thermal resistance at 250 VAC 55 K / W
- Shock resistance 16 ms NO > 17g
- Double or reinforced insulation
- Pollution degree 2
- Overvoltage category III
- Insulation resistance at Up 500 VDC > 100 MQ

Excitation Voltage Range

Tests, Regulations, Standards
- Approvals UL, cUL, TÜV
- UL File E18895 Sec. 5
- UL 94 / V0
- Insulation class IEC 60664-1 250 VAC
- IEC 61810-1, IEC 61810-3
- Fire protection requirements
- UL94 / V0
- ISO 16,6±0,2
- IOS 16,6±0,2
- ISO 16,6±0,2
- ISO 16,6±0,2

Options, Accessories
- DIN rail socket
- Pin length 2.2 to 3.8 mm

Product Key
- SIS 24VDC
- Nominal voltage 24 VDC
- Number of contacts 2 NO / 1 NC
- Type designation SIS 212