Compact Relay Family with Forcibly Guided Contacts

SF-Y RELAYS

4-pole
(2 Form A 2 Form B, 3 Form A 1 Form B)

6-pole
(4 Form A 2 Form B, 5 Form A 1 Form B)

RoHS compliant

FEATURES

1. Forcibly guided contact structure
Relay complies with EN 50205, Type A
Equipped with forcibly guided contact structure that enables detection of contact welding and construction of safety circuit.

2. Small size

3. Different contact configurations:

Type	L × W × H (mm inch)
2 Form A 2 Form B, 3 Form A 1 Form B	31.0 × 28.6 × 14.5 1.220 × 1.126 × .571
4 Form A 2 Form B, 5 Form A 1 Form B	39.0 × 28.6 × 14.5 1.535 × 1.126 × .571

4. Low profile: 14.5 mm .571 inch

5. Insulation according to EN 60664-1:
Overvoltage category III, Pollution degree 2, 250V AC

• Reinforced insulation:
Clearance and creepage 5.5 mm .217 inch
(between all contacts and between contact NO4 and coil)

• Basic insulation:
Clearance 3 mm .118 inch and creepage 4 mm .157 inch
(between all contacts and between contact NC3 and coil)

TYPICAL APPLICATIONS

1. Emergency stop switches
2. Machine safety engineering
3. Safety control units
4. Automation technology
5. Elevators
6. Escalators
7. Overcurrent protection with monitor contact

ORDERING INFORMATION

SFY □ - □

Contact arrangement
2: 2 Form A 2 Form B
3: 3 Form A 1 Form B
4: 4 Form A 2 Form B
5: 5 Form A 1 Form B

Nominal coil voltage
DC 5, 12, 16, 18, 21, 24V

Notes: Please consult us about other coil voltages.
Gold-clad contact type available on request.

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TYPES

Contact arrangement		Nominal coil voltage	Part No.
4-pole	2 Form A 2 Form B	5 V DC	SFY2-DC5V
		12 V DC	SFY2-DC12V
		16 V DC	SFY2-DC16V
		18 V DC	SFY2-DC18V
		21 V DC	SFY2-DC21V
		24 V DC	SFY2-DC24V
	3 Form A 1 Form B	5 V DC	SFY3-DC5V
		12 V DC	SFY3-DC12V
		16 V DC	SFY3-DC16V
		18 V DC	SFY3-DC18V
		21 V DC	SFY3-DC21V
		24 V DC	SFY3-DC24V
6-pole	4 Form A 2 Form B	5 V DC	SFY4-DC5V
		12 V DC	SFY4-DC12V
		16 V DC	SFY4-DC16V
		18 V DC	SFY4-DC18V
		21 V DC	SFY4-DC21V
		24 V DC	SFY4-DC24V
	5 Form A 1 Form B	5 V DC	SFY5-DC5V
		12 V DC	SFY5-DC12V
		16 V DC	SFY5-DC16V
		18 V DC	SFY5-DC18V
		21 V DC	SFY5-DC21V
		24 V DC	SFY5-DC24V

Standard packing: Tube 20 pcs.

RATING

1. Coil data

Contact arrangement		Nominal coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [±10%] (at 20°C 68°F)	Coil resistance [±10%] (at 20°C 68°F)	Nominal operating power (at 20°C 68°F)	Max. applied voltage (at 20°C 68°F)
4-pole	2 Form A 2 Form B	5V DC	75%V or less of nominal voltage (Initial)	15%V or more of nominal voltage (Initial)	134mA	38Ω	670mW	120%V of nominal voltage
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		
	3 Form A 1 Form B	5V DC			134mA	38Ω		
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		
6-pole	4 Form A 2 Form B	5V DC			134mA	38Ω		
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		
	5 Form A 1 Form B	5V DC			134mA	38Ω		
		12V DC			56mA	215Ω		
		16V DC			42mA	380Ω		
		18V DC			37mA	483Ω		
		21V DC			32mA	666Ω		
		24V DC			28mA	864Ω		

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