

Ordering information

Example: 7S series Relay module with forcibly guided contacts, 6 contact (4 NO + 2 NC) 6 A, supply voltage 24 V DC.

7 S . 1 6 . 9 . 0 2 4 . 0 4 2 0

Series

Type

1 = 22.5 mm wide, screwless terminals
2 = 17.5 mm wide, screw terminals

Output

2 = 2 contacts
3 = 3 contacts
4 = 4 contacts
6 = 6 contacts

Supply version

8 = AC (50 /60 Hz)
9 = DC

Supply voltage

See page 6

Special versions

0 = Standard

NO and NC contacts

11 = 1 NO + 1 NC
21 = 2 NO + 1 NC
22 = 2 NO + 2 NC
31 = 3 NO + 1 NC
42 = 4 NO + 2 NC

Contact material

0 = AgNi
0 = AgNi+Au (7S.23)
5 = AgNi + Au

Codes, Preferred selections for best availability are shown in **bold**.

7S.12.9.012.5110	7S.14.9.012.0220	7S.16.9.012.0420
7S.12.9.024.5110	7S.14.9.012.0310	7S.16.9.024.0420
7S.12.8.120.5110	7S.14.9.024.0220	7S.16.9.110.0420
7S.12.8.230.5110	7S.14.9.024.0310	7S.16.8.120.0420
	7S.14.9.110.0220	7S.16.8.230.0420
	7S.14.9.110.0310	7S.23.9.012.0210
	7S.14.8.120.0220	7S.23.9.024.0210
	7S.14.8.120.0310	7S.23.9.048.0210
	7S.14.8.230.0220	7S.23.9.110.0210
	7S.14.8.230.0310	



Technical data

Insulation according to EN 61810-1

Nominal voltage of supply system	V AC	230/400
Rated insulation voltage	V AC	250
Pollution degree		2

Insulation between coil and contact set

Type of Insulation		Reinforced*	Basic*	Reinforced*
Overvoltage category		III	III	II
Rated impulse voltage	kV (1.2/50 μs)	6	4	4
Dielectric strength	V AC	4000	2500	2500

Insulation between adjacent contacts

Type of Insulation		Reinforced*	Basic*	Reinforced*
Overvoltage category		III	III	II
Rated impulse voltage	kV (1.2/50 μs)	6	4	4
Dielectric strength	V AC	4000	2500	2500

Insulation between open contacts

Type of disconnection		Micro-disconnection
Dielectric strength	V AC/kV (1.2/50 μs)	1500/2.5

* Tables below indicate, for each 7S type, those contacts (R) meeting Reinforced Insulation Overvoltage category III, those contacts (R2) meeting Reinforced Insulation Overvoltage category II, and those contacts (B) meeting Basic Insulation Overvoltage category III.

EMC specifications		Reference standard		
Burst (5/50 ns)	on supply terminals	EN 61000-4-4	4 kV	
Surge (1.2/50 μs)	on supply terminals differential mode	EN 61000-4-5	1.5 kV	
Terminals		solid cable	stranded cable	
Max. wire size	mm ²	1 x 1.5	1 x 1.5	
	AWG	1 x 14	1 x 16	
Wire strip length	mm	9		
Other data		7S.12	7S.14	7S.16
Bounce time: NO/NC	ms	2/8	1/20	1/20
Vibration resistance (10...200)Hz: NO/NC	g	10/5	15/4	15/4
Shock resistance: NO/NC	g	20/6	25/13	25/13
Power lost to the environment	without contact current	W	0.8	0.8
	with rated current	W	1.4	2.3

Type of insulation between coil and contacts and between adjacent contacts

Code		
Type of Insulation		Overvoltage category
R	Reinforced	III
B	Basic	III
R2	Reinforced	II

7S.12....5110			
	Coil	13-14	21-22
Coil	—	R	R
13-14		—	B/R2
21-22			—

7S.14....0310					
	Coil	13-14	21-22	33-34	43-44
Coil	—	B	R	R	R
13-14		—	B	R	R
21-22			—	R	R
33-34				—	B/R2
43-44					—

7S.16....0420							
	Coil	13-14	21-22	31-32	43-44	53-54	63-64
Coil	—	B	R	R	R	R	R
13-14		—	B	R	R	R	R
21-22			—	R	R	R	R
31-32				—	B/R2	R	R
43-44					—	B/R2	R
53-54						—	B/R2
63-64							—

7S.14....0220					
	Coil	11-12	21-22	33-34	43-44
Coil	—	R	R	R	R
11-12		—	R	R	R
21-22			—	R	R
33-34				—	B/R2
43-44					—