

Relay module with forcibly guided contacts**7S.12 with 2 pole (1NO + 1 NC)****7S.14 with 4 pole (2 NO + 2 NC and 3 NO + 1 NC)****7S.16 with 6 pole (4 NO + 2 NC)**

- For safety applications, with class A forcibly guided contact relays (EN 50205)
- For applications up to SIL 2 according to IEC 61508
- For functional reliability in machinery and plant engineering according to EN 13849-1
- For railway applications; materials compliant with fire and smoke characteristics (UNI 11170-3); mechanical and climatic characteristics compliant with EN 61373 and EN 50155
- DC and AC supply versions
- 24 and 110 V DC versions with extended operating range $(0.7 \dots 1.25)U_N$
- Coil status visual indication with LED
- 35 mm rail (EN 60715) mount

Screwless terminal



* Single contact current ≤ 6 A,
total NO contacts current ≤ 12 A

For outline drawing see page 8

Contact specification

		1 NO + 1 NC	2 NO + 2 NC, 3 NO + 1 NC	4 NO + 2 NC
Contact configuration		1 NO + 1 NC	2 NO + 2 NC, 3 NO + 1 NC	4 NO + 2 NC
Rated current/Max. peak current	A	6/15	6*/12	6*/12
Rated switching voltage	V AC (50/60 Hz)	250	250	250
Rated load AC1	VA	1500	1500	1500
Rated load AC15 (230 V AC)	VA	700	500	500
Breaking capacity DC1: 30/110/220 V	A	6/0.6/0.2	6/0.6/0.3	6/0.6/0.3
Breaking capacity DC13: 24 V	A	1	1	1
Minimum switching load	mW (V/mA)	60 (5/5)	60 (5/5)	60 (5/5)
Standard contact material		AgNi + Au	AgNi with notched crown	AgNi with notched crown

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	110...125 - 230...240	110...125 - 230...240	110...125 - 230...240
	V DC	12 - 24	12 - 24 - 110	12 - 24 - 110
Rated power	VA (50 Hz)/W	2.3/1	2.3/1	2.3/1
Operating range	AC	$(0.85 \dots 1.1)U_N$	$(0.85 \dots 1.1)U_N$	$(0.85 \dots 1.1)U_N$
	DC	$(0.8 \dots 1.2)U_N$	$(0.8 \dots 1.2)U_N$	$(0.8 \dots 1.2)U_N$
DC extended range (24 and 110 V only)		$(0.7 \dots 1.25)U_N$	$(0.7 \dots 1.25)U_N$	$(0.7 \dots 1.25)U_N$
Holding voltage	AC/DC	$0.45 U_N / 0.45 U_N$	$0.55 U_N / 0.55 U_N$	$0.55 U_N / 0.55 U_N$
Must drop-out voltage	AC/DC	$0.1 U_N / 0.1 U_N$	$0.1 U_N / 0.1 U_N$	$0.1 U_N / 0.1 U_N$

Technical data

Mechanical life	cycles	$10 \cdot 10^6$	$10 \cdot 10^6$	$10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$	$100 \cdot 10^3$
Operate/release time	ms	7/11	12/10	12/10
Insulation between coil and contacts (1.2/50 μ s)	kV	6	6 (4 against 13-14)	6 (4 against 13-14)
Dielectric strength between open contacts	V AC	1500	1500	1500
Ambient temperature	°C	-40...+70	-40...+70	-40...+70
Protection category		IP 20	IP 20	IP 20

Approvals (according to type)

Relay module with forcibly guided contacts
7S.23 with 3 pole (2NO + 1 NC)

- For safety applications, with class A forcibly guided contact relays (EN 50205)
- For functional reliability in machinery and plant engineering according to EN 13849-1
- DC coil
- Damium free contacts
- 17.5 mm wide
- Coil status visual indication with LED
- 35 mm rail (EN 60715) mount



- 3 pole (2 NO + 1 NC)

Screw terminal



For outline drawing see page 7

Contact specification

Contact configuration		2 NO + 1 NC
Rated current/Max. peak current	A	10/20
Rated switching voltage	V AC (50/60 Hz)	250
Rated load AC1	VA	2500
Rated load AC15 (230 V AC)	VA	500
Breaking capacity DC1: 30/110/220 V	A	6/0.6/0.2
Breaking capacity DC13: 24 V	A	1
Minimum switching load	mW (V/mA)	60 (5/5)
Standard contact material		AgNi + Au

Coil specification

Nominal voltage (U _N)	V DC	12 - 24 - 48 - 110
Rated power	VA (50 Hz)/W	2.3/1
Operating range	DC	(0.8...1.2)U _N
Holding voltage	DC	0.45 U _N
Must drop-out voltage	DC	0.1 U _N

Technical data

Mechanical life	cycles	10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³
Operate/release time	ms	7/11
Insulation between coil and contacts (1.2/50 μs)	kV	6
Dielectric strength between open contacts	V AC	1500
Ambient temperature	°C	-40...+70
Protection category		IP 20

Approvals (according to type)