Modular relays with forcibly guided contacts

Type 7S.12/32
- 2 pole 6 A (1 NO + 1 NC)

Type 7S.14/34
- 4 pole 6 A (2 NO + 2 NC and 3 NO + 1 NC)

Type 7S.16/36
- 6 pole 6 A (4 NO + 2 NC and 5 NO + 1 NC)

- For safety applications, with class A forcibly guided contact relays EN 61810-3 (previously EN 50205)
- SIL2 evaluated according to EN 61508, for use in functional safety application according to EN 62061 up to SIL2 and according to IEC 13849-1 up to PL d (instead of For functional reliability in machinery and plant engineering according to EN 13849-1)
- For functional reliability in machinery and plant engineering according to EN 13849-1
- For railway applications; materials compliant with fire and smoke characteristics EN 45545; 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…1.25)U_N
- Coil status visual indication with LED
- 35 mm rail (EN 60715) mount

Screwless terminal

Screw terminal

For outline drawing see page 12

7S.12/32....5110 NEW

- 2 pole (1 NO + 1 NC)

7S.14/34....4xx0 NEW

- 4 pole :
  (2 NO + 2 NC) type
  7S.xx.x.xxx.4220
  (3 NO + 1 NC) type
  7S.xx.x.xxx.4310

7S.16/36....5xx0 NEW

- 6 pole:
  (4 NO + 2 NC) type
  7S.xx.x.xxx.5420
  (5 NO + 1 NC) type
  7S.xx.x.xxx.5510

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Contact specification				
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	6/15	6/15
Rated switching voltage	V AC (50/60 Hz)	250	250	250
Rated load AC1	VA	1500	1500	1500
Rated current AC15 (230 V AC)	A	5	5	5
Rated current AC15 (400 V AC)	A	2	—	—
Breaking capacity DC1: 30/110/220 V	A	6/0.6/0.2	6/0.9/0.3	6/0.9/0.3
Breaking capacity DC13: 24 V	A	1	3	3
Minimum switching load	mW (V/mA)	60 (5/5)	60 (5/10)	60 (5/10)
Standard contact material		AgNi + Au	$AgSnO_2$	$AgSnO_2$+Au
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…1.1)U_N	(0.85…1.1)U_N	(0.85…1.1)U_N
	DC	(0.8…1.2)U_N	(0.8…1.2)U_N	(0.8…1.2)U_N
DC extended range (24 and 110 V only)		(0.7…1.25)U_N	(0.7…1.25)U_N	(0.7…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 µs)	kV	6	6	6
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)				