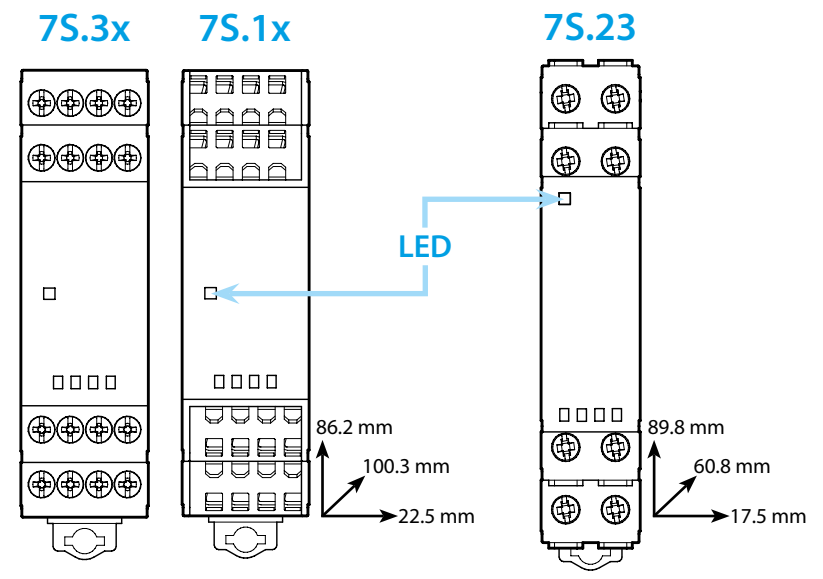




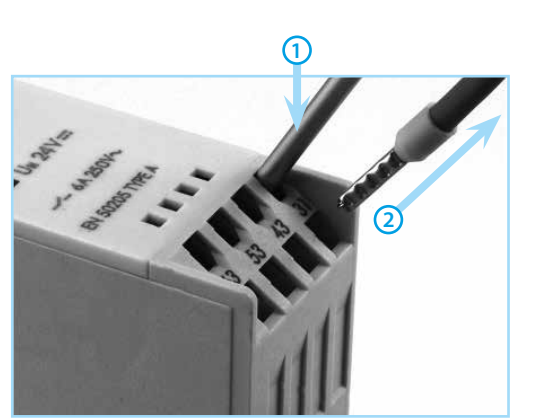
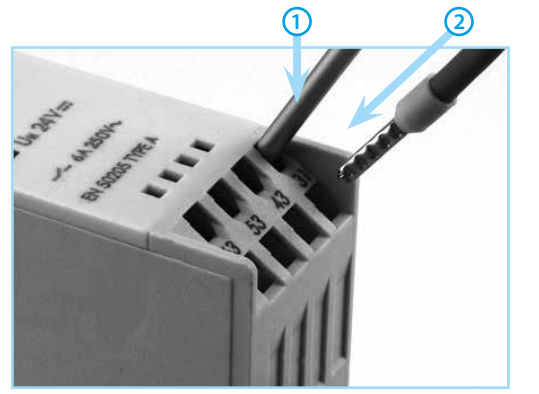
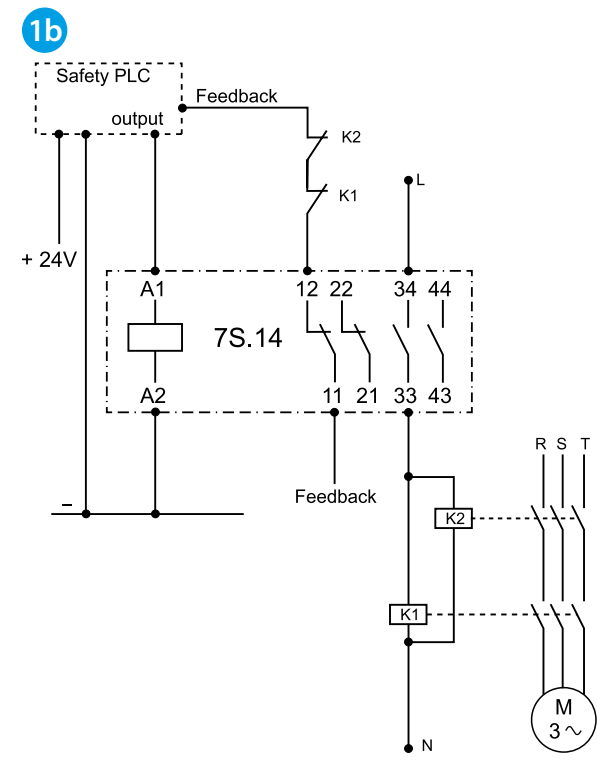
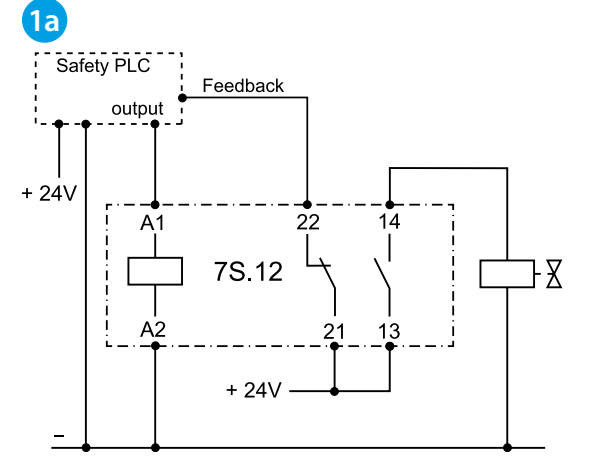
7S.xx **7S.23**

	7S.xx.8.xxx.xxx0 230 U _{min} - U _{max} (195...264)V AC 120 U _{min} - U _{max} (93.5...137.5)V AC	7S.xx.9.xxx.xxx0 012 U _{min} - U _{max} (9.6...14.4)V DC 024 U _{min} - U _{max} (16.8...30)V DC 110 U _{min} - U _{max} (77...137.5)V DC	7S.23.9.xxx.0210 012 U _{min} - U _{max} (9.6...14.4)V DC 024 U _{min} - U _{max} (19.2...28.8)V DC 048 U _{min} - U _{max} (38.4...57.6)V DC 110 U _{min} - U _{max} (88...132)V DC
	P 2.3 VA (50 Hz) / 1 W		
6 A 250 V AC	10 A 250 V AC		
AC1 1500 VA AC15 (230V) 3 A DC1 (30/110/220)V (6/0.6/0.2) A [7S.x2]	AC1 2500 VA AC15 (230 V) 5 A DC1 (30/110/220)V (6/0.6/0.2)A		
DC13 (24V) 1 A [7S.x2] 3 A [7S.x4] 3 A [7S.x6]	DC13 (24 V) 5 A		
(-40...+70)°C			

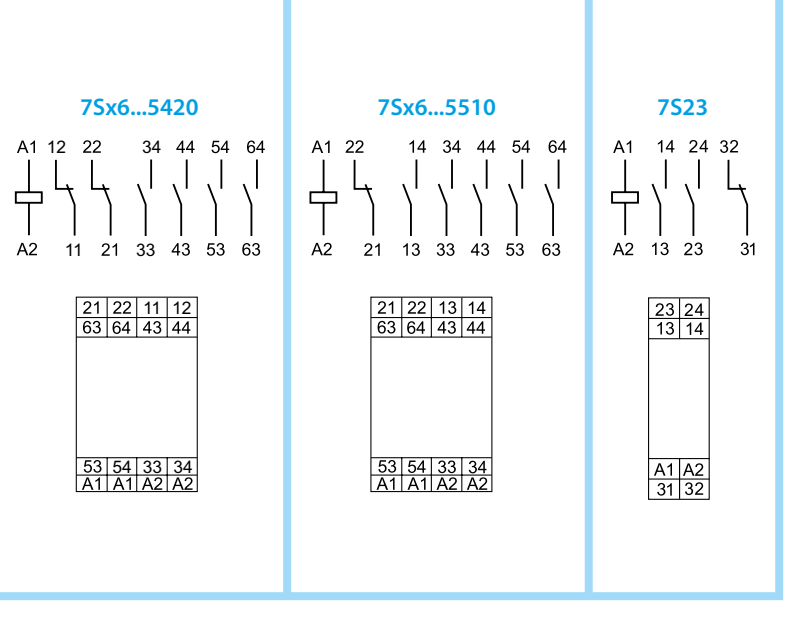
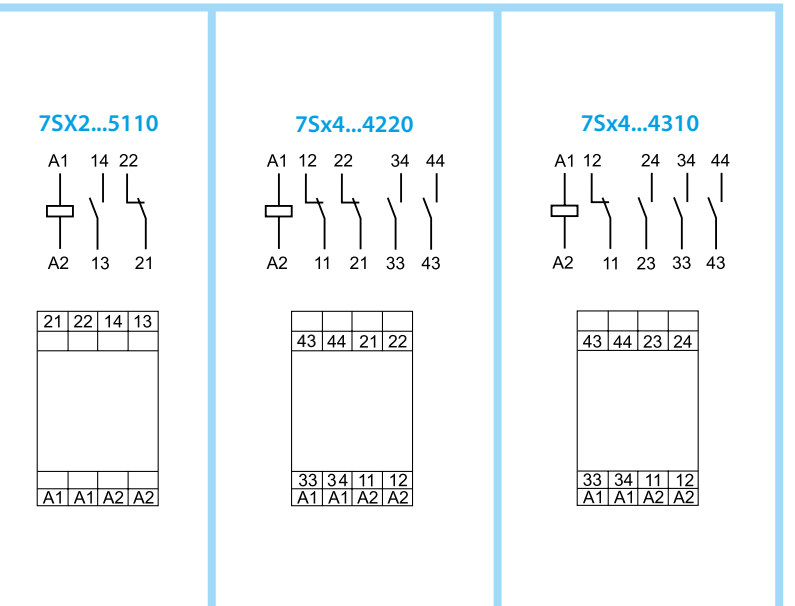
EN 61810-3 TYPE A IP20



Utility Model - IB7500XX0VXX - 12/22 - Finder S.p.A. con unico socio - 10040 ALMESE (TO) - ITALY



	9mm	9mm
	1x6 / 2x2.5 mm ² 1x10 / 2x14 AWG	1x4 / 2x2.5 mm ² 1x12 / 2x14 AWG
	1x1.5 mm ² 1x14 AWG	1x1.5 mm ² 1x16 AWG



Relay	Load	Vn (V)	In (A)	PFD	PFH	T cycle (s)	B10d	DC avg/SIL
7S.12/32...5100 (T)	AC1	250 V AC	6	5.21E-04	5.21E-08	180	220.000	90%/SIL2
	DC13	24 V DC	4	4.88E-04	4.88E-08	120	350.000	90%/SIL2
7S.14/7S.34...4220 (T) 7S.14/7S.34...4310 (T)	AC15	250 V AC	1	3.29E-04	3.29E-08	240	250.000	90%/SIL2
			2	7.51E-04	7.51E-08	180	160.000	90%/SIL2
			3	1.42E-03	1.42E-07	180	85.000	90%/SIL2
	DC13	24 DC	1	6.00E-03	6.00E-07	30	2.000.000	90%/SIL2
			0,75	6.00E-03	6.00E-07	30	2.000.000	90%/SIL2
			3	1.50E-03	1.50E-07	600	400.000	90%/SIL2
AC1	250 V AC	0.1	1.20E-03	1.20E-07	30	10.000.000	90%/SIL2	
		6	1.20E-03	1.20E-07	600	500.000	90%/SIL2	
7S.16/7S.36...5420 (T) 7S.16/7S.36...5510 (T)	AC15	250 V AC	4	1.00E-03	1.00E-07	600	600.000	90%/SIL2
			2	1.20E-03	1.20E-07	300	1.000.000	90%/SIL2
			3	4.00E-03	4.00E-07	300	300.000	90%/SIL2
	DC13	24 V DC	2	6.00E-03	6.00E-07	30	2.000.000	90%/SIL2
			1	1.71E-03	1.71E-07	30	7.000.000	90%/SIL2
			3	5.22E-03	5.22E-07	300	230.000	90%/SIL2
AC1	250 V AC	1	3.16E-03	3.16E-07	300	380.000	90%/SIL2	
		6	2.40E-03	2.40E-07	300	500.000	90%/SIL2	
7S.23/7S.P3...0210 (T)	AC1	250 V AC	4	1.40E-03	1.40E-07	300	860.000	90%/SIL2
			2	9.23E-03	9.23E-07	30	1.300.000	90%/SIL2
			5	2.00E-03	2.00E-07	300	600.000	90%/SIL2
7S.23/7S.P3...0210 (T)	DC13	24 V DC	5	2.00E-03	2.00E-07	300	600.000	90%/SIL2
	AC15	230 V AC	5	1.33E-03	1.33E-07	300	900.000	90%/SIL2

Probabilistic constraints	
T1	1 year
MTTR	8h
MTR	0.5 h
PFD*	1E5 x PFH

ENGLISH

7S Relay modules with forcibly guided contacts

- 1a** Direct load switching and contact diagnostics, with a common supply
- 1b** Indirect load switching and contact diagnostics, with a different load supply

Relays with forcibly guided contacts for applications up to SIL2. Being a single channel system (1oo1), the diagnostics, entrusted for example to a safety PLC, should aim at identifying the fault before the safety function is required. Dynamic tests are not foreseen or imposed by the relay manufacturer. If the NO contacts fail to open when the coil is de-energised the NC contact will not close, and restarting the machinery must then be prevented. Using the relay as a device for realising a safety function requires that circuit techniques well established for safety purposes are followed, i.e. On these assumptions, the failure of the NO contact to close is a failure in safety while the failure to open is a dangerous fault. The system is built in 1oo1 logic and should provide for a system proof test interval equal to T1. It is assumed the time to restart the system after a dangerous failure equals MTTR and the time to carry out the replacement of the 7S equals MTR. ***Consider that the calling frequency of the safety function does not exceed 1.14 years (10,000 hours)**

Installation advice

- It is recommended to install overvoltage protection devices (SPD) to protect the safety devices
- It is recommended to install overcurrent protection devices to protect the load
- It is recommended to evaluate the appropriate IP degree of the enclosure in which the 7S will be mounted, dependent on the application

