

- One module (17.5mm) wide
- Test button
- Identification label
- AC and DC coils
- 35 mm rail (EN 50022) mount

22.21

22.22

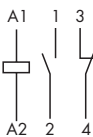
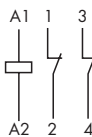
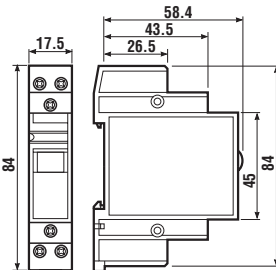
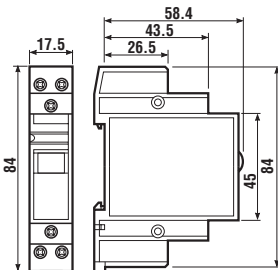
- Single phase switch 1 NO - 35 mm rail (EN 50022)	- Double phase switch 2 NO - 35 mm rail (EN 50022)

Contact specifications			
Contact configuration		1 NO	2 NO
Rated current/Max. peak current	A	20/30	20/30
Rated voltage/Max. switching voltage	V AC	250/400	250/400
Rated load in AC1	VA	5,000	5,000
Rated load in AC15 (230 VAC)	VA	1,000	1,000
Single phase motor rating (230 VAC)	kW/HP	—	—
Breaking capacity: 30/110/220 V	A	20/0.3/0.12	20/0.3/0.12
Minimum switching load	mW(V/mA)	1,000 (10/10)	1,000 (10/10)
Standard contact material		AgNi	AgNi
Coil specifications			
Nominal voltage	V AC (50/60Hz)	8 - 12 - 24 - 48 - 110 - 120 - 230 - 240	
	V DC	12 - 24 - 48 - 110	12 - 24 - 48 - 110
Rated power AC/DC	VA (50Hz)/W	2.3/1.25	2.3/1.25
Operating range	AC (50Hz)/W	(0.85...1.1)U _N	(0.85...1.1)U _N
	DC	(0.9...1.1)U _N	(0.9...1.1)U _N
Technical data			
Mechanical life	cycles	500 · 10 ³	500 · 10 ³
Electrical life at rated load in AC1	cycles	50 · 10 ³	50 · 10 ³
Maximum impulse duration		continuous	continuous
Surge test (1.2/50µs) between coil and contacts	V	4,000	4,000
Ambient temperature range	°C	-40...+40	-40...+40
Protection category		IP 20	IP 20
Approvals: (according to type)		CE	

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22.23

22.24

	
- Double phase switch 1 NO + 1 NC - 35 mm rail (EN 50022)	- Double phase switch 2 NC - 35 mm rail (EN 50022)
	
	
1 NO + 1 NC	2 NC
20/30	20/30
250/400	250/400
5,000	5,000
1,000	1,000
—	—
20/0.3/0.12	20/0.3/0.12
1,000 (10/10)	1,000 (10/10)
AgNi	AgNi
8 - 12 - 24 - 48 - 110 - 120 - 230 - 240	
12 - 24 - 48 - 110	12 - 24 - 48 - 110
2.3/1.25	2.3/1.25
(0.85...1.1)U _N	(0.85...1.1)U _N
(0.9...1.1)U _N	(0.9...1.1)U _N
500 · 10 ³	500 · 10 ³
50 · 10 ³	50 · 10 ³
continuous	continuous
4,000	4,000
-40...+40	-40...+40
IP 20	IP 20
	

ORDERING INFORMATION

Example: a 22 series 35 mm rail (EN 50022) mount relay with 1 NO (SPST-NO) - 20 A contacts, with coil rated at 24 V DC, contact material AgSnO₂.

2 2 . 2 1 . 9 . 0 2 4 . 4 0 0 0

Series

Type

2 = 35 mm rail (EN 50022) mount

No. of poles

1 = 1 NO (SPST-NO)

2 = 2 NO (DPST-NO)

3 = 1 NO (SPST-NO) + 1 NC (SPST-NC)

4 = 2 NC (DPST-NC)

Contact material

0 = AgNi standard

4 = AgSnO₂

Coil voltage

see coil specifications

Coil version

8 = AC (50/60 Hz)

9 = DC

TECHNICAL DATA

CONTACT SPECIFICATIONS

NOMINAL RATE LAMPS		
- incandescence (230V)	W	1,000
- compensated fluorescent (230V)	W	360

INSULATION

DIELECTRIC STRENGTH		
- between supply and contacts	V AC	3,500
- between open contacts	V AC	2,000
- between adjacent contacts	V AC	2,000
SURGE TEST (1.2/50µs)		
- between supply and contacts	V	4,000

OTHER DATA

22.21

22.22, 22.23, 22.24

POWER LOST IN THE ENVIRONMENT					
- without contact current	W	1.2		1.2	
- with rated current	W	3.2		5.2	
		COIL CLAMPS		CONTACT CLAMPS	
MAX WIRE SIZE		solid cable	flexible cable	solid cable	flexible cable
	mm²	1x4 / 2x2.5	1x2.5 / 2x2.5	1x6 / 2x6	1x6 / 2x4
	AWG	1x12 / 2x14	1x14 / 2x14	1x10 / 2x10	1x10 / 2x12
TORQUE	Nm	0.8		0.8	

If the coil is operated for a prolonged period of time, adequate ventilation of the relays must be provided, for example leaving a gap of about 9mm between pairs of relays.

COIL SPECIFICATIONS

AC VERSION DATA

Nominal voltage	Coil code	Operating range		Resistance	Absorption
U _N		U _{min}	U _{max}	R	I at U _N (50Hz)
V		V	V	Ω	mA
8	8.008	6.8	8.8	6.5	275
12	8.012	10.2	13.2	13.5	185
24	8.024	20.4	26.4	42	95
48	8.048	40.8	52.8	185	48
110	8.110	93.5	121	980	21
120	8.120	102	132	1,400	18
230	8.230	195.5	253	4,250	10
240	8.240	204	264	4,400	9.5

DC VERSION DATA

Nominal voltage	Coil code	Operating range		Resistance	Absorption
U _N		U _{min}	U _{max}	R	I at U _N
V		V	V	Ω	mA
12	9.012	10.8	13.2	115	104.3
24	9.024	21.6	26.4	460	52.2
48	9.048	43.2	52.8	1,850	25.9
110	9.110	99	121	9,700	11.3