

Ordering information

Electromechanical relay (EMR)

Example: 34 series slim electromechanical relay, 1 CO (SPDT) 6 A contacts, 24 V sensitive DC coil.

	3	4	.	5		1	.	7	.	0	2	4	.	A	B	C	D
Series	34																
Type	5																
	5 = Electromechanical type																
No. of poles	1																
	1 = 1 pole, 6 A																
Coil version	7																
	7 = Sensitive DC																
Coil voltage																	
	See coil specifications																
A: Contact material																	
B: Contact circuit																	
D: Special versions																	
C: Options																	

Selecting features and options: only combinations in the same row are possible.

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

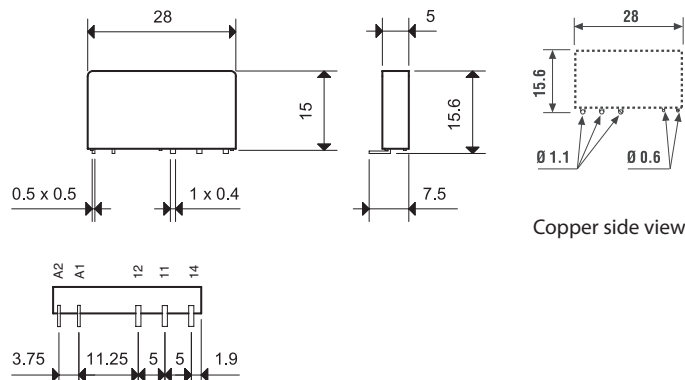
Type	Coil version	A	B	C	D
34.51	sens. DC	0 - 4 - 5	0 - 3	1	0
34.51	sens. DC	0 - 4 - 5	0	1	9

Solid state relay (SSR)

Example: 34 series SSR relay, 2 A output, 24 V DC supply.

	3	4	.	8		1	.	7	.	0	2	4	.	9	0	2	4
Series	34																
Type	8																
	8 = SSR type																
Output	1																
	1 = 1 NO (SPST-NO)																
Input circuit																	
	See input specifications																
Output circuit																	

Flat pack version



Option = 34.51.7xxx.x019

Environmental protection RT I

*Electromechanical relay***Technical data****A****Insulation according to EN 61810-1**

Nominal voltage of supply system	V AC	230/400	
Rated insulation voltage	V AC	250	400
Pollution degree		3	2

Insulation between coil and contact set

Type of insulation		Reinforced	
Overvoltage category		III	
Rated impulse voltage	kV (1.2/50 µs)	6	
Dielectric strength	V AC	4000	

Insulation between open contacts

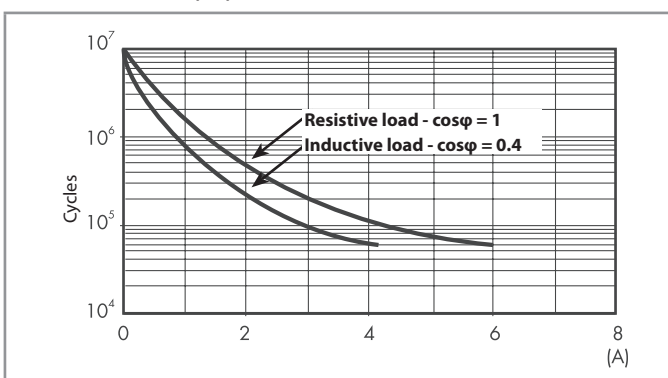
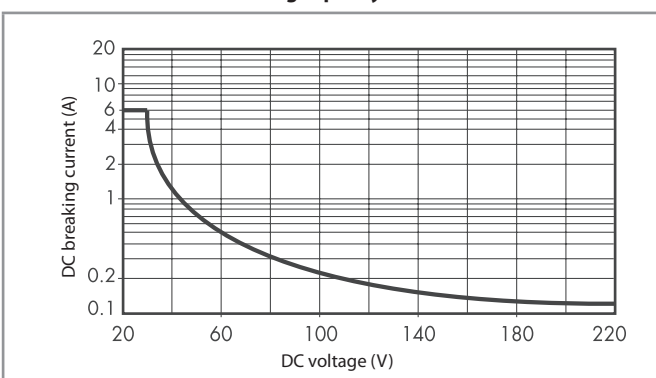
Type of disconnection		Micro-disconnection	
Dielectric strength	V AC/kV (1.2/50 µs)	1000/1.5	

Conducted disturbance immunity

Burst (5...50)ns, 5 kHz, on A1 - A2	EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 µs) on A1 - A2 (differential mode)	EN 61000-4-5	level 3 (2 kV)

Other data

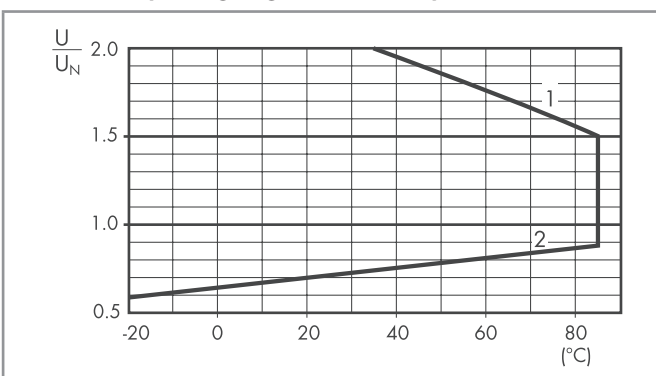
Bounce time: NO/NC	ms	1/6
Vibration resistance (5...55)Hz: NO/NC	g	10/5
Shock resistance	g	20/14
Power lost to the environment	without contact current W	0.2
	with rated current W	0.5
Recommended distance between relays mounted on PCB	mm	≥ 5

Contact specification**F 34 - Electrical life (AC) v contact current****H 34 - Maximum DC1 breaking capacity**

- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 60 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
Note: the release time for the load will be increased.

Coil specifications**DC coil data**

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption
V		U_{min}	U_{max}	R	I at U_N
V		V	V	Ω	mA
5	7.005	3.5	7.5	130	38.4
12	7.012	8.4	18	840	14.2
24	7.024	16.8	36	3350	7.1
48	7.048	33.6	72	12300	3.9
60	7.060	42	90	19700	3

R 34 - DC coil operating range v ambient temperature

- 1 - Max. permitted coil voltage.
- 2 - Min. pick-up voltage with coil at ambient temperature.