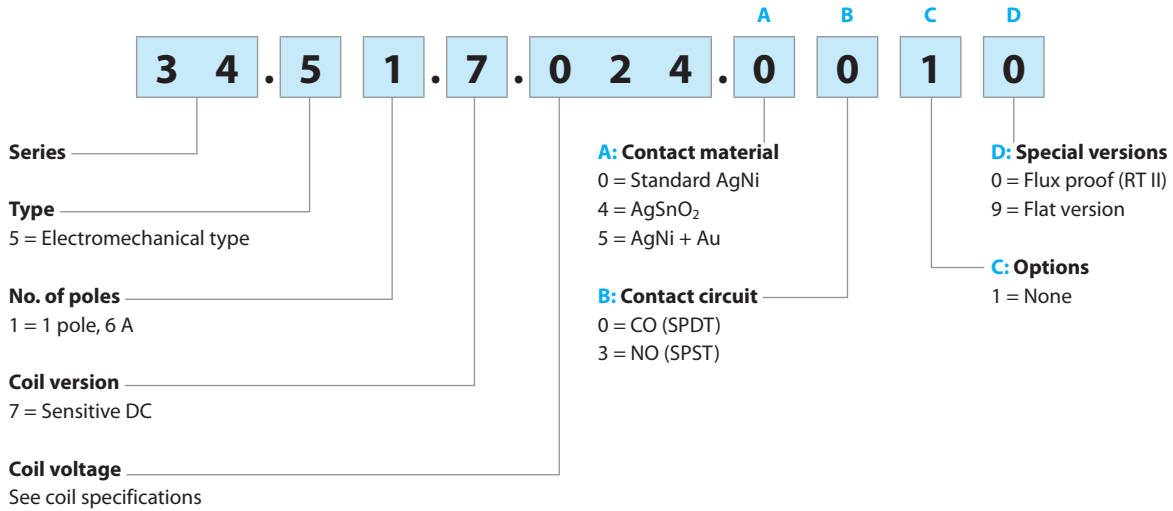


**A**

## Ordering information

### Electromechanical relay (EMR)

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



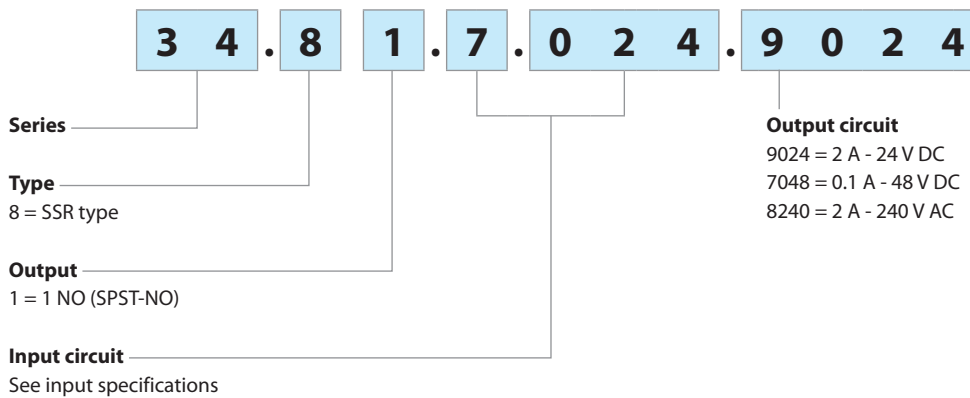
**Selecting features and options: only combinations in the same row are possible.**

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

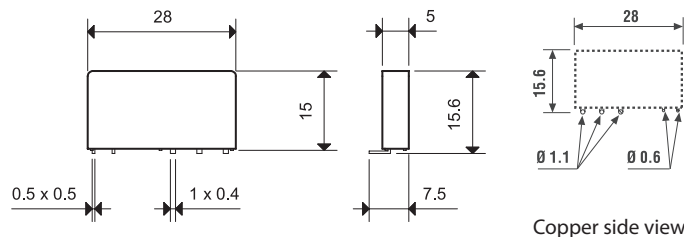
Type	Coil version	A	B	C	D
34.51	sens. DC	<b>0</b> - 4 - 5	<b>0</b> - 3	<b>1</b>	<b>0</b>
34.51	sens. DC	0 - 4 - 5	0	1	9

### Solid state relay (SSR)

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



## Flat pack version



Option = 34.51.7xxx.x019

Environmental protection RT I



## Electromechanical relay

## Technical data

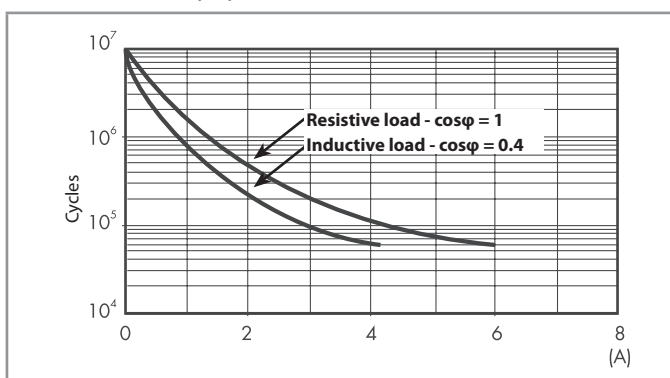
A

## Insulation according to EN 61810-1

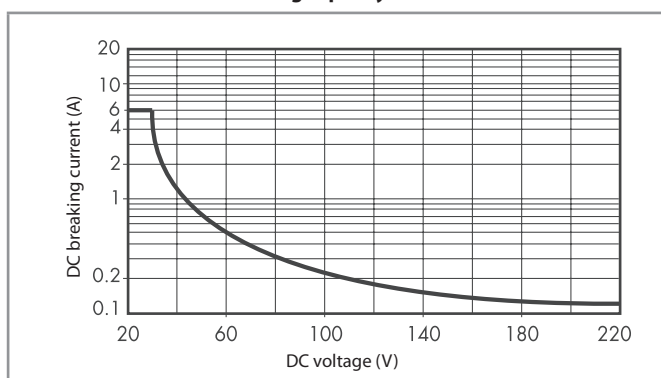
Nominal voltage of supply system	V AC	230/400	
Rated insulation voltage	V AC	250	400
Pollution degree		3	2
<b>Insulation between coil and contact set</b>			
Type of insulation		Reinforced	
Overvoltage category		III	
Rated impulse voltage	kV (1.2/50 $\mu$ s)	6	
Dielectric strength	V AC	4000	
<b>Insulation between open contacts</b>			
Type of disconnection		Micro-disconnection	
Dielectric strength	V AC/kV (1.2/50 $\mu$ s)	1000/1.5	
<b>Conducted disturbance immunity</b>			
Burst (5...50)ns, 5 kHz, on A1 - A2		EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 $\mu$ s) on A1 - A2 (differential mode)		EN 61000-4-5	level 3 (2 kV)
<b>Other data</b>			
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	$\geq 5$	

## Contact specification

## F 34 - Electrical life (AC) v contact current



## H 34 - Maximum DC1 breaking capacity



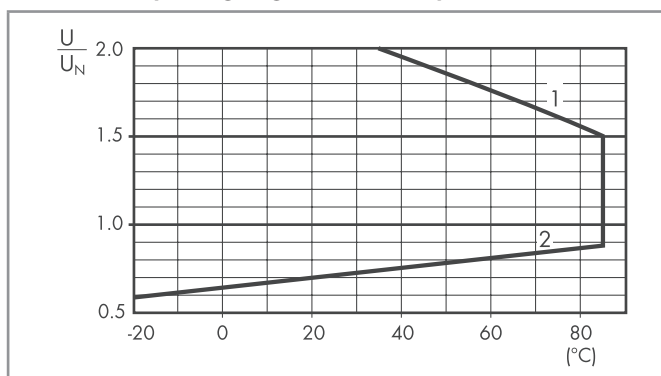
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of  $\geq 60 \cdot 10^3$  can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.  
Note: the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

## Coil specifications

## DC coil data

Nominal voltage $U_N$	Coil code	Operating range		Resistance $R$	Rated coil consumption $I$ at $U_N$
		$U_{min}$	$U_{max}$		
V		V	V	$\Omega$	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.