

Ordering information

Example: 65 series power relay, PCB with bifurcated terminals, 1 NO + 1 NC (SPST-NO + SPST-NC) contact, 12 V DC coil.

6

5

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6

1

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9

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0

1

2

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0

0

0

0

Series —————

Type —————
3 = Faston 250 (6.3 x 0.8 mm)
with rear flange mount
6 = PCB with bifurcated terminals

No. of poles —————
1 = 1 NO + 1 NC (SPST-NO + SPST-NC)

Coil version —————
8 = AC (50/60 Hz)
9 = DC

Coil voltage —————
See coil specifications

A: Contact material
0 = Standard AgCdO
4 = AgSnO₂

B: Contact circuit
0 = 1 NO + 1 NC
(SPST-NO + SPST-NC)
3 = NO (≥ 3 mm contact gap)

C: Options
0 = None

D: Special versions
0 = Standard
9 = Type 65.31 without rear flange mount

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
65.31	AC-DC	0 - 4	0 - 3	0	0 - 9
65.61	AC-DC	0 - 4	0 - 3	0	0

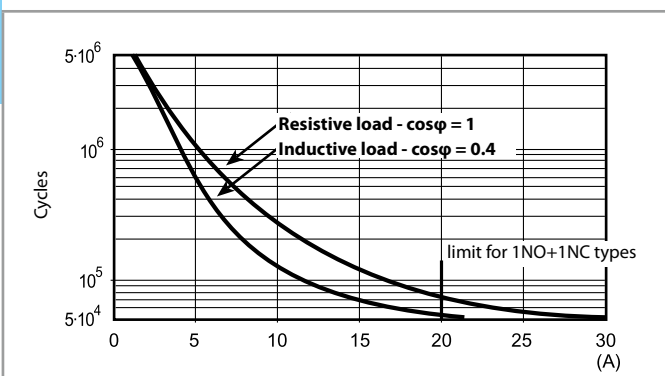
Technical data

Insulation according to EN 61810-1

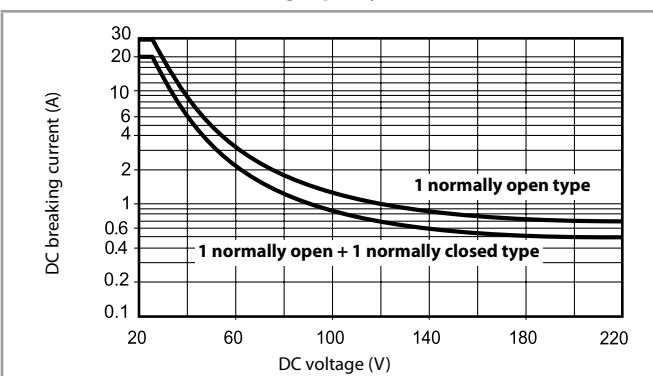
		1 NO + 1 NC		1 NO	
Nominal voltage supply system	V AC	230/400		230/400	
Rated insulation voltage	V AC	250	400	250	400
Pollution degree		3	2	3	2
Insulation between coil and contact set					
Type of insulation		Basic		Basic	
Overvoltage category		III		III	
Rated impulse voltage	kV (1.2/50 μs)	4		4	
Dielectric strength	V AC	2500		2500	
Insulation between open contacts					
Type of disconnection		Micro-disconnection		Full-disconnection	
Overvoltage category		—		III	
Rated impulse voltage	kV (1.2/50 μs)	—		4	
Dielectric strength	V AC/kV (1.2/50 μs)	1500/2		2500/4	
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 4 (4 kV)	
Other data					
Bounce time: NO/NC	ms	5/6 (1 normally open + 1 normally closed)	7/— (normally open)		
Vibration resistance (10...150)Hz: NO/NC		g	20/13		
Shock resistance		g	20		
Power lost to the environment	without contact current	W	1.3		
	with rated current	W	2.1 (65.31, 65.61)		3.1 (65.31/61.0300)
Recommended distance between relays mounted on PCB		mm	≥ 5		

Contact specification

F 65 - Electrical life (AC) v contact current



H 65 - Maximum DC1 breaking capacity



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 80 \cdot 10^3$ 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

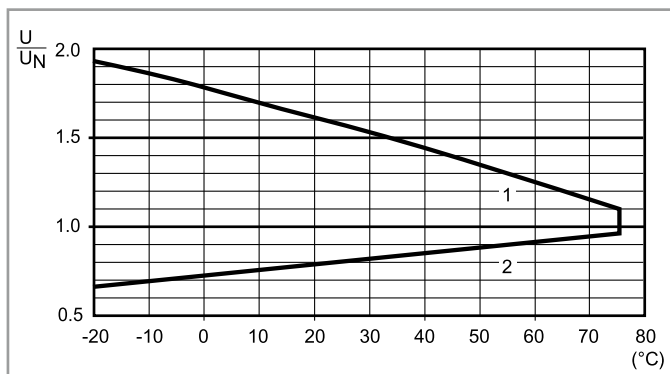
DC coil data

Nominal voltage U_N	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N
V		U_{min} V	U_{max} V	Ω	mA
6	9.006	5.1	6.6	28	214
12	9.012	10.2	13.2	110	109
24	9.024	20.4	26.4	445	54
48	9.048	40.8	52.8	1770	27.1
60	9.060	51	66	2760	21.7
110	9.110	93.5	121	9420	11.7
125	9.125	106	138	12000	10.4
220	9.220	187	242	37300	5.8

AC coil data

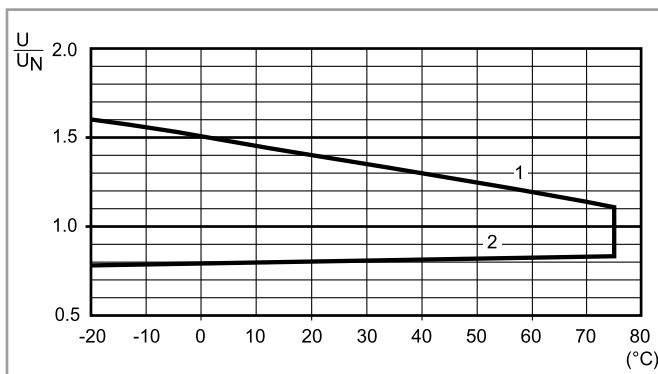
Nominal voltage U_N	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N (50 Hz)
V		U_{min} V	U_{max} V	Ω	mA
6	8.006	4.8	6.6	4.6	367
12	8.012	9.6	13.2	19	183
24	8.024	19.2	26.4	74	90
48	8.048	38.4	52.8	290	47
60	8.060	48	66	450	37
110	8.110	88	121	1600	20
120	8.120	96	132	1940	18.6
230	8.230	184	253	7250	10.5
240	8.240	192	264	8500	9.2
400	8.400	320	440	19800	6

R 65 - DC coil operating range v ambient temperature



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

R 65 - AC coil operating range v ambient temperature



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