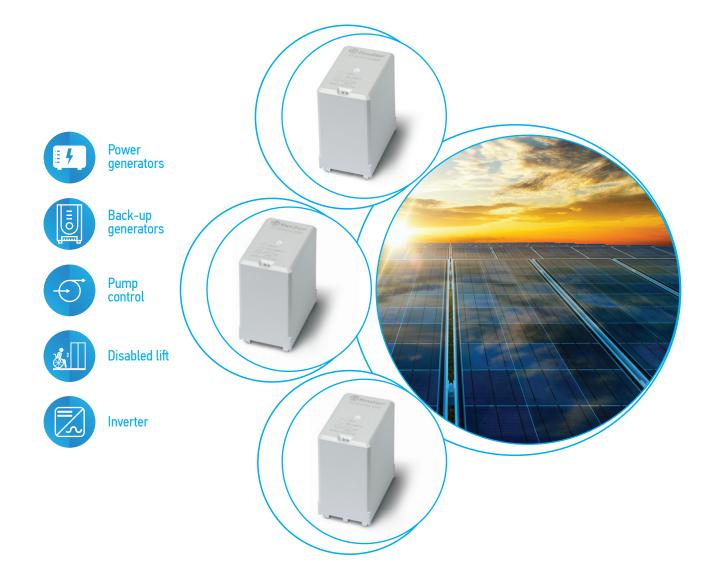




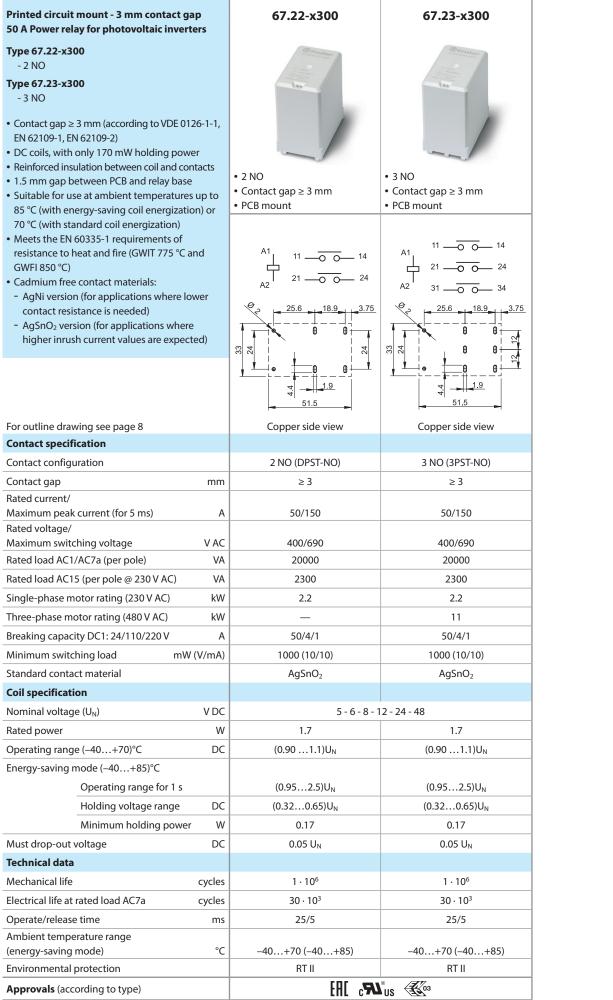
High Power relay 50 A



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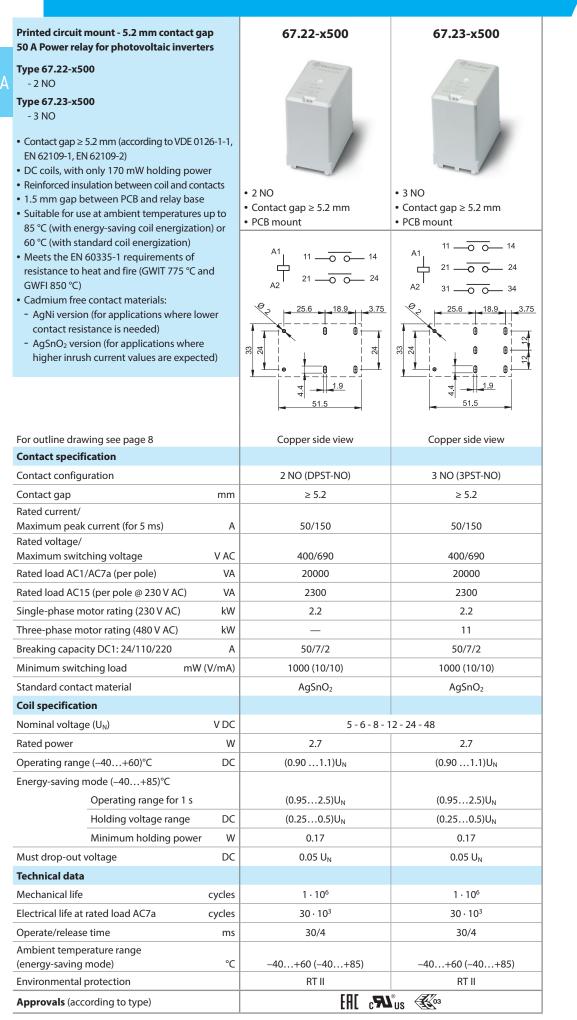
67 SERIES High Power relay 50 A





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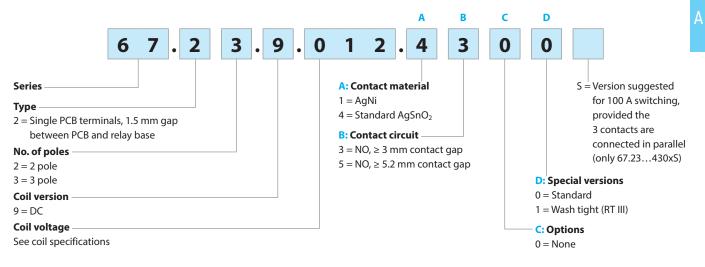


67

SERIES

Ordering information

Example: 67 series solar relay, single PCB terminals, 2 pole NO, \geq 3 mm contact gap.



Technical data

Insulation according to EN 61810	-1						
Nominal voltage of supply system	ninal voltage of supply system VAC			400 1-phase	230/400		
Rated insulation voltage		V AC	630	400	400		
Pollution degree	3						
Insulation between coil and conta	act set						
Type of Insulation	Reinforced						
Overvoltage category	III						
Rated impulse voltage	6						
Dielectric strength	4000						
Insulation between adjacent cont	tacts						
Type of Insulation	Basic						
Overvoltage category			Ш				
Rated impulse voltage	kV (1.2/50)µs	6				
Dielectric strength		V AC	2500				
Insulation between open contact	S						
Type of disconnection	e of disconnection			Micro-disconnection* Full-disconnection			
Overvoltage category			— III				
Rated impulse voltage	kV (1.2/50)µs	- 4				
Dielectric strength	strength V AC			2500 (67.xx-x300)/3000 (67.xx-x500)			
Insulation between coil terminals	5						
Rated impulse voltage (surge) diffe							
(according to EN 61000-4-5)	kV (1	1.2/50 μs)	4				
Other data							
Bounce time: NO ms							
Vibration resistance (10150)Hz: NO g			15				
Shock resistance g			35				
Power lost to the environment	without contact current	W	1.7 (67.xx-x300)/2.7 (6				
	with rated current	W	8.5 (67.xx-x300)/9.5 (6	7.xx-x500)			
Recommended distance between r	elays mounted on PCB	mm	≥ 20				
Short circuit protection							
Rated conditional short circuit curre	5 30 (delaved type)						
Back-up fuse for motor load	30 (delayed type)						

* with overvoltage category II: Full-disconnection

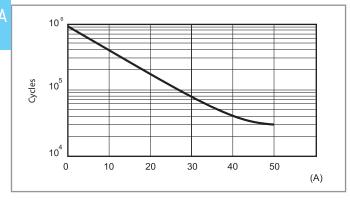


Contact specification

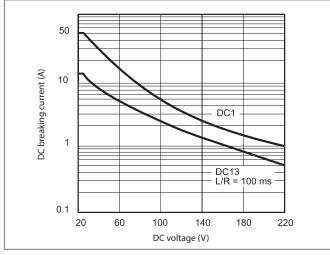
67

SERIES

F 67 - Electrical life v contact current (AC1/AC7a load)

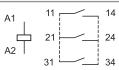


H 67-1 - Maximum DC breaking capacity (67.xx-x300)



When switching a resistive (DC1) or inductive (DC13) load having voltage and current values under the corresponding curve, an electrical life of > 30000 cycles can be expected.

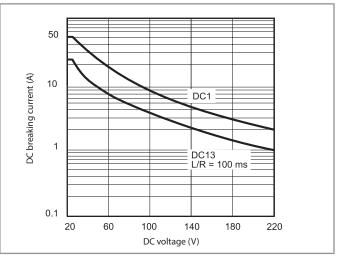
Connection of contacts in parallel



Connecting in parallel the contacts, with appropriate dimensioning of tracks on PC board, allow the relays to carry and switch loads up to 100 A: - 100 A, with 67.23...4300S version

- 80 A, with 67.23...1300 version

H 67-2 - Maximum DC breaking capacity (67.xx-x500)



When switching a resistive (DC1) or inductive (DC13) load having voltage and current values under the corresponding curve, an electrical life of > 30000 cycles can be expected.

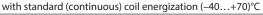
DC coil data, 67.xx-x300

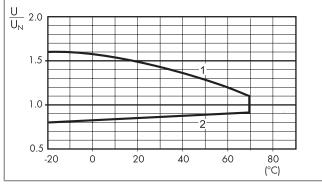
Nominal voltage	Coil code	Operating range (@ 70 °C max)		Holding voltage	Resistance	Rated coil consumption I at U _N
U _N		U _{min}	U _{max}	U _h	R	I _N
V		V	V	V	Ω	mA
5	9 .005	4.5	5.5	1.6	14.7	340
6	9 .006	5.4	6.6	1.9	21.5	279
8	9 .008	7.2	8.8	2.6	37.6	213
12	9 .012	10.8	13.2	3.8	85	141
24	9 .024	21.6	26.4	7.7	340	71
48	9 .048	43.2	52.8	15.4	1355	35

DC coil data, 67.xx-x500

.	C 11 1	0	D			
Nominal	Coil code	Operating range		Holding	Resistance	Rated coil
voltage		(@ 60 °C max)		voltage		consumption
						I at U _N
U _N		U_{min}	U _{max}	U _h	R	I _N
V		V	V	V	Ω	mA
5	9 .005	4.5	5.5	1.25	9.3	538
6	9 .006	5.4	6.6	1.5	13.5	444
8	9 .008	7.2	8.8	2	23.7	338
12	9 .012	10.8	13.2	3	53.5	224
24	9 .024	21.6	26.4	6	213	113
48	9 .048	43.2	52.8	12	855	56

R 67-1 - Operating range v ambient temperature, 67.xx-x300





1 - Max. permitted coil voltage.

Energy saving mode

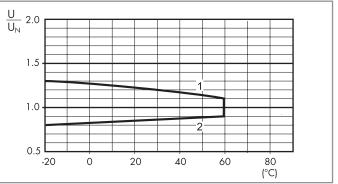
In some applications, such as photovoltaic inverters, it may be necessary to minimize the overall relay power dissipation and to permit use at higher ambient temperature levels (up to 85 °C). This can be achieved by initially applying a coil voltage within the Energy saving mode Operating range (see diagram to the right) and then rapidly (< 1 s) reducing the coil voltage to a level within the Holding voltage range. The lower the Holding voltage, the lower is the continuous power dissipation of the coil (0.17 W minimum).

Coil voltages as high as 2.5 U_{N} may be used, when necessary, to reduce the contact operate time.

R 67-2 - Operating range v ambient temperature, 67.xx-x500

with standard (continuous) coil energization (-40...+60)°C

🕑 finder

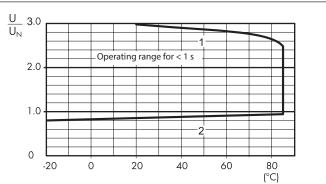


1 - Max. permitted coil voltage.

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



in energy saving mode (-40...+85)°C



1 - Max. permitted coil voltage.

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

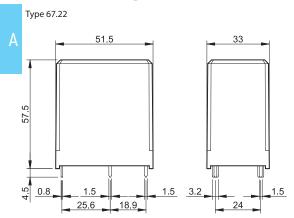
^{2 -} Min. pick-up voltage with coil at ambient temperature.



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Outline drawings



Type 67.23

