

Power Relays Type CS30/CF30 Monostable

CARLO GAVAZZI



- Compressor control relay
- Switching capacity 30 A
- DC coils 6 to 48 VDC
- AC coils 24 to 277 VAC
- 2 normally open contacts, 2 change over contacts
- Reinforced insulation 4 KV / 8 mm
- Meets class F construction
- PCB or Fast-on terminal
- General purpose, power loads
- Standard as sealed
- UL, cUL approved

Product Description

Relay high power output. vending machines, and It is sealed designed for compressors load.

Ordering Key

C S30 A 002 12

Type _____
 Terminal version _____
 (S30= Soldering - F30= Fast-on)
 Coil version (A=AC - D=DC) _____
 Contact code _____
 Coil rated voltage _____

Type Selection

Contact configuration	Contact rating	Contact code
2 normally open contact (DPST {2-form A})	30 A	200
2 change over contact (DPDT {2-form C})	30 A	002

Coil Characteristics, DC (20°C)

Rated voltage	Pick-up voltage	Drop-out voltage	Max. allowable voltage	Coil resistance
VDC	VDC	VDC	VDC	$\Omega \pm 10\%$
6	4.5	0.6	6.6	22
12	9.0	1.2	13.2	86
24	18.0	2.4	26.4	350
48	36.0	4.8	52.8	1390

Coil Characteristics, AC (20°C)

Rated voltage	Pick-up voltage	Drop-out voltage	Max. allowable voltage	Coil resistance
VAC	VAC	VAC	VAC	$\Omega \pm 10\%$
24	19.2	4.8	26.4	39
120	96.0	24.0	132.0	950
240	192.0	48.0	264.0	3800
277	221.6	55.4	304.7	5485

Contact Characteristics

	002	
	(NO)	(NC)
UL rating	30 A -120/277 VAC 2 HP - 250 VAC TV 10	20 A - 28 VDC / 227VAC 2 HP - 250 VAC TV 10
Contact rating	30 A -120/270 VAC	20 A - 28 VDC /227 VAC
Material	Silver alloy	Silver alloy
Initial contact resistance	50 m Ω max. (1A-6VDC)	50 m Ω max. (1A-6VDC)
Current	30 A	30 A
Max. switching current	8.310 VA / 840 W	8.310 VA / 840 W
Max. switching power	8.310 VA / 840 W	8.310 VA / 840 W
Voltage	277 VAC	277 VAC
Max. switching voltage	277 VAC	277 VAC
Life	1 x 10 ⁵ ops/min. 5 x 10 ⁶ ops/min.	1 x 10 ⁵ ops/min. 5 x 10 ⁶ ops/min.
Electrical life	1 x 10 ⁵ ops/min.	1 x 10 ⁵ ops/min.
Mechanical life	5 x 10 ⁶ ops/min.	5 x 10 ⁶ ops/min.

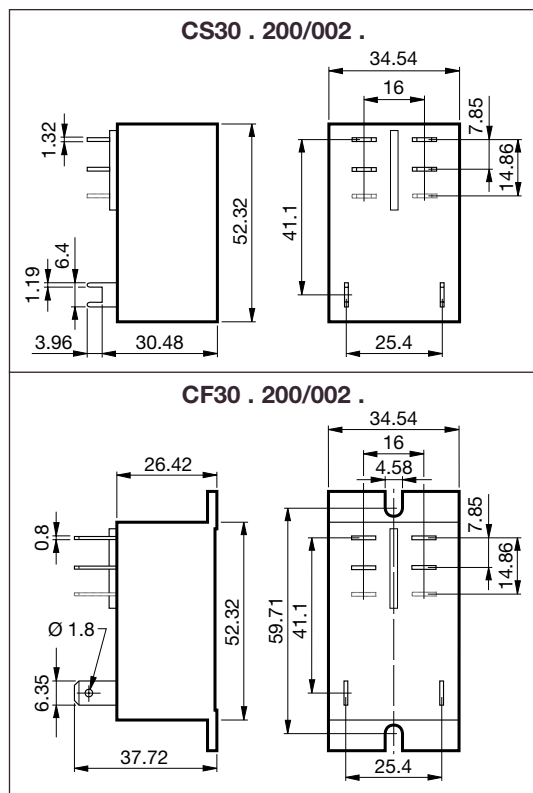
Insulation

Test voltage (1 min.) Open contacts Contacts/coil Contact/poles	4000 Vrms 1500 Vrms 2000 Vrms	Surge voltage Contacts/coil	10000 VAC
		Initial insulation resistance at 500 VDC	1000 MΩ

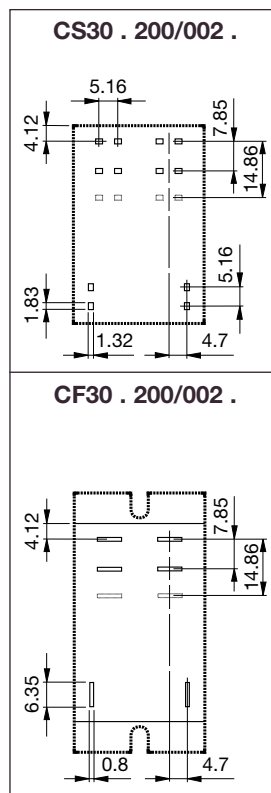
General Data

Nominal coil power	AC version 4 VA DC version 1.7 W	Temperature rise	AC DC	85 °C max. 60 °C max.
Operate time at nom. voltage	15 ms	Shock resist.	Malfunction Mechanical	100 m/s ² 1000 m/s ²
Release time at nom. voltage	10 ms	Humidity		35% to 85% , 40
Ambient temperature	AC DC	Weight		~ 86 g
Vibration resistance	1.65 mm p.p. 10 to 55 Hz	Enclosure		Dust cover sealed

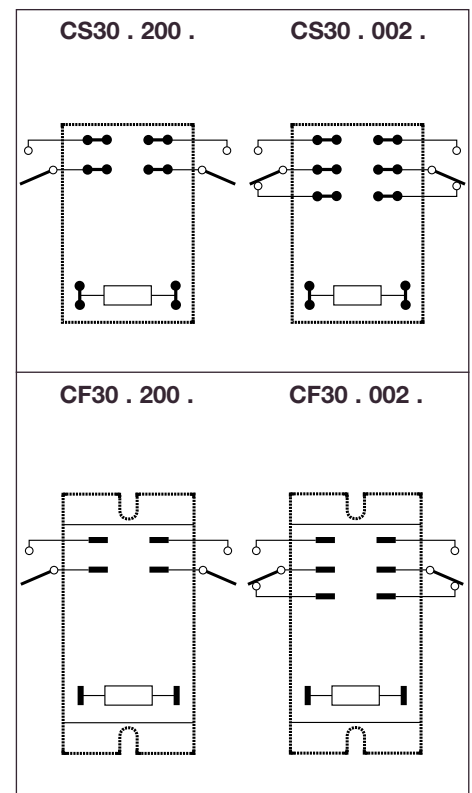
Dimensions



Pin View

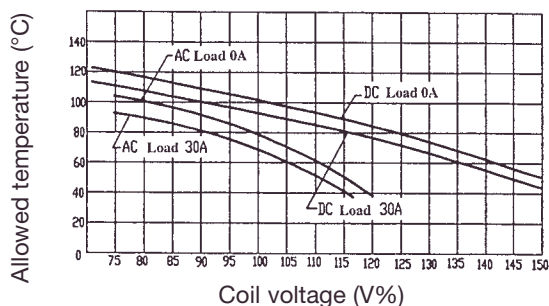


Wiring Diagram



Diagrams

1 Ambient temperature



Specifications are subject to change without notice

Approvals



The approvals stated are not generally applicable to all relay versions of a particular type.