

Relè Series C

Relè Industriali



General Purpose Relays designed to switch up to 10 Amps 250V AC1 or 30V DC1. Internationally accepted for any industrial application due to their popular 8-11 pin plug-in connection to socket.

All-or-Nothing relays meeting IEC-VDE-CSA-UL international standards. A wide range of sockets being also available to complete the series (see exclusive literature).

Specification

Insulation resistance @ 500 VDC	(all circuits)	>500 Mohm
Insulation group	(VDE 110)	I Group C - 250 VAC
Pollution degree / Insulation voltage	(EN 61810-1)	2 / 250 VAC
Environmental protection	(EN 61810-1)	RT I (dust protected)
Enclosure classification	(EN 60529)	IP 40
Mechanical life expectancy		10 million operations
Electrical life expectancy		100,000 operations
Max operating frequency @ no load		18,000 ops./ hour
Max operating frequency @ rated load		1,200 ops./ hour
Surrounding ambient temperature		- 40... + 55° C
Storage temperature		- 40... + 80° C
Vibration	(45-100Hz)	10 g
Shock resistance	(11 ms)	10 g
Overvoltage class		III
Impulse withstand voltage peak		3.6 KV
Type of duty		continuous
Mounting position		any
Weight	(approx.)	80 grams



Environmental compatibility
(European Directive 2002/95/CE)

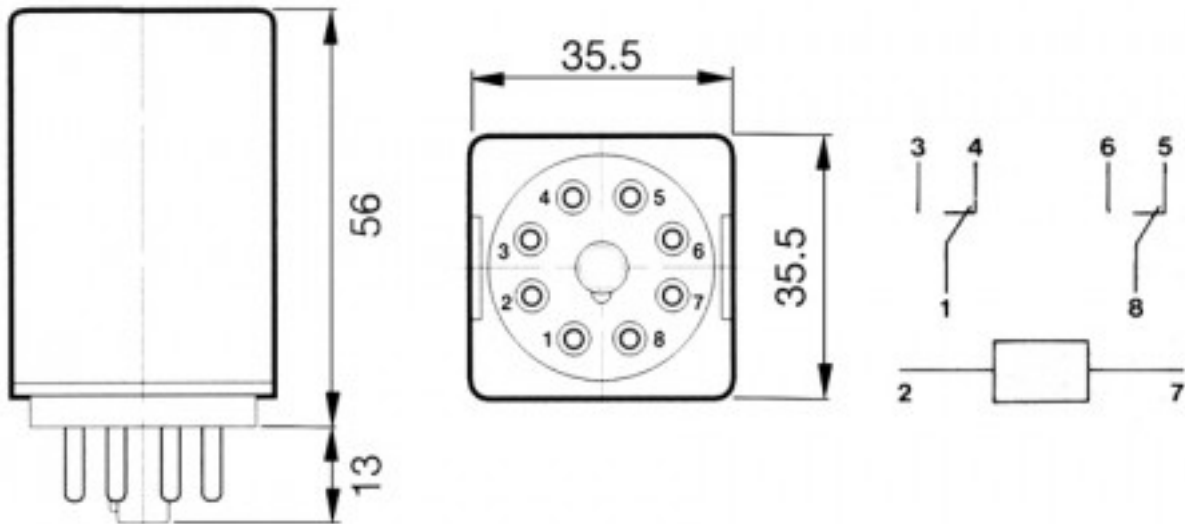
Relè Series C

Proof Voltage & Times

DIELECTRIC STRENGTH		OPERATING TIMES	@ Rated Voltage	
Coil / contacts	3,750V RMS	Operate (+ bounces)	max 25	milliseconds
Adjacnt contacts	1,250V RMS	Release (+ bounces)	max 25	milliseconds
Open contacts	750V RMS	Bounces	max 20	milliseconds
Ground / live parts	4,000V RMS			

Relè Series C

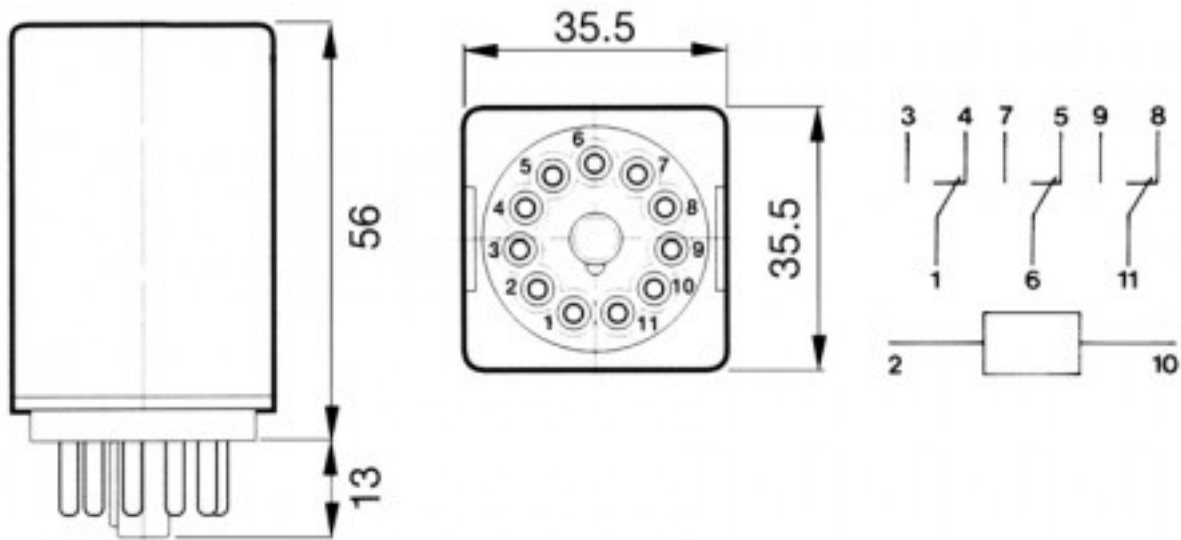
Available Types



C4-2 - 2 pole changeover 10A - 250V AC

Connection: plug-in (8 pin)
Flag indicator of state
Protective dust cover
LED coil supply indicator
Push-to-test / turn-to-lock button
Identification label

Relè Series C



C4-3 - 3 pole changeover 10A - 250V AC

Connection: plug-in (11 pin)
 Flag indicator of state
 Protective dust cover
 LED coil supply indicator
 Push-to-test / turn-to-lock button
 Identification label

Relè Series C

Coil Data

Nominal Voltage	Direct	Current	Alternating	Current	
	Current I	Resistance R (*)	Current I (50Hz)	Current I (60Hz)	Resistance R (*)
V	mA	ohm	mA	mA	ohm
6	250	22,5	420	380	4
12	125	90	210	190	16
24	63	360	105	95	70
48	31	1440	52	45	320
60	25	2250	-	-	-
110	14	7900	-	-	-
115	-	-	22	20	1600
230	-	-	11	10	6800
(*) Resistance values @ 23° C		Tolerance on R and I:	+/- 10%		

Supply voltages:

6-12-24-48-115-230 VAC (50-60Hz) / 6-12-24-48-60-110 VDC

Rated power:

2.5 VA @ 50Hz (AC) / 2.2 VA @ 60Hz (AC) / 1.5 W (DC)

Operating range:

- 20%... + 10% (DC & AC-50Hz) / - 15%... + 10% (AC-60Hz)

Minimum hold voltage:

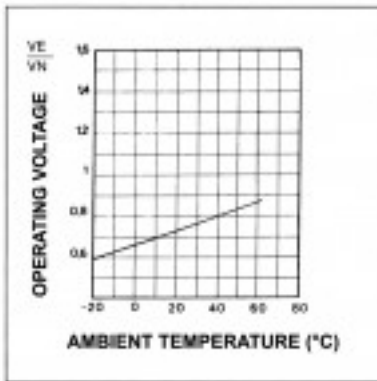
> 80% Vn (AC) / > 50% Vn (DC)

Must release voltage:

< 15% Vn (AC) / < 5% Vn (DC)

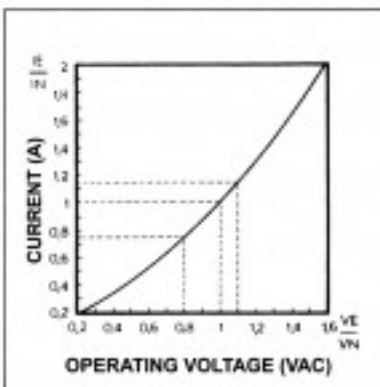
Thermic insulation class of winding (IEC 317):

F (155°C)



Min operating voltage (DC)
Vs. ambient temperature

VE = Operating voltage
VN = Rated voltage



Power variation Vs.
operating voltage
(AC - 50/60Hz)

IE = Operating current
IN = Rated current

Relè Series C

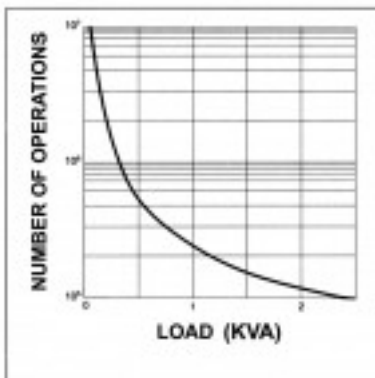
Contact Data

Power rating (AC1)	2,500 VA	Minimum voltage	10 VAC
Rated current (cosphi 1)	10 A	Switching power (DC1)	300 W
Max instant. current (*)	15 A	Min. switched load	600 mW
Single-phase motor load (**)	1/3 HP	Min. switched current	5 mA
Rated voltage	250 VAC / 30 VDC	Initial resistance (***)	Max. 100 milliohm
Max switched voltage	500 VAC / 240 VDC	Standard material	Ag90%-CdO10%

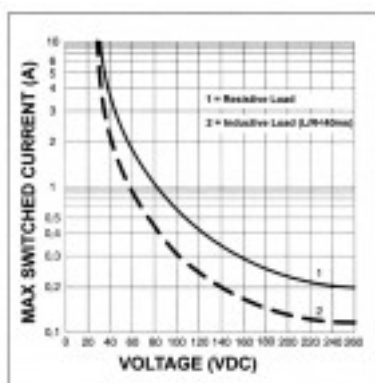
(*) Maximum admitted time 0.5 seconds - ED = 0.1

(**) Cosphi 0.7 - 250VAC Max

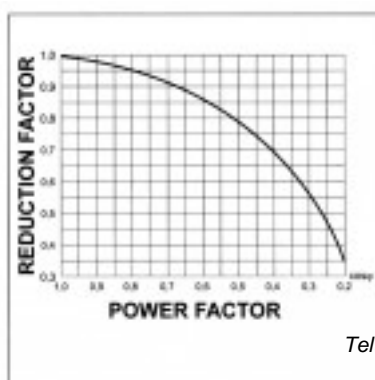
(***) Contact category (EN 61810-7): CC2 (1A-30V)



Contact life Vs. AC1 load
@ 1200 operations/hour



Switching power (DC1)
@ 1200 operations/hour



Reduction factor for
inductive AC1 loads

Relè Series C

Approvals



Relè Series C

ERC