

# SERIES C



## Industrial Relays

General purpose relays designed to switch up to 10A 250V AC1 or 30V DC1. They are internationally accepted for any industrial application, due to their popular 8-11 pin plug-in connection on socket. All-or-nothing

relays complying with CEI-IEC-BSI-VDE-CSA-UL international standards. A wide range of sockets is also available to complete the series (see exclusive literature).

### DIELECTRIC STRENGTH

Coil spring set to contacts :	<b>2000 V RMS</b>
Between adjacent contacts :	<b>2000 V RMS</b>
Between open contacts :	<b>1000 V RMS</b>
Ground / live parts :	<b>4000 V RMS</b>

### OPERATING TIMES (At Rated Voltage)

Operate (including bounces) :	<b>max 30</b>	milliseconds
Release (including bounces) :	<b>max 20</b>	milliseconds
Bounces :	<b>max 10</b>	milliseconds

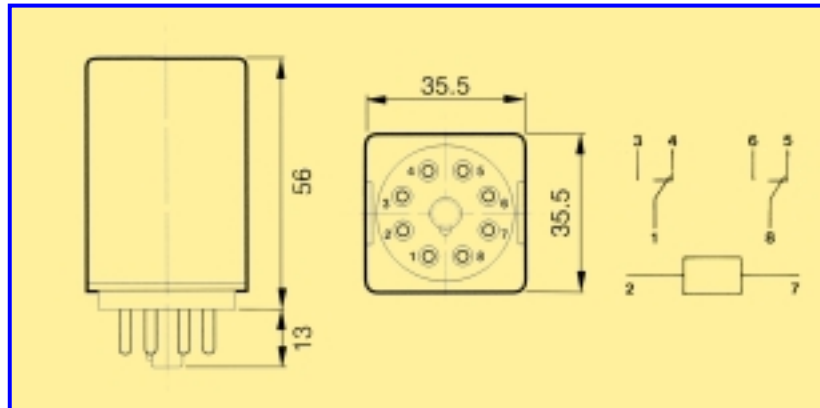
### SPECIFICATION

Min. insulation resistance	5x10 <sup>2</sup> MΩ @ 500 VDC (all circuits)
Insulation group (VDE 110)	1° Gr. C 250 VAC
Enclosure classification	IP 40 (IEC 144)
Type of duty	continuous
Mechanical life expectancy	10 <sup>7</sup> operations
Max ops./hour @ no load	18000 (AC / DC)
Max ops./hour @ rated load	1200 (AC / DC)
Temperature range	-40 to +55° C
Storage temperature	-40 to +80° C
Impulse withstand voltage	3.6 Kv
Operating class (EN 61810)	1

## AVAILABLE TYPES

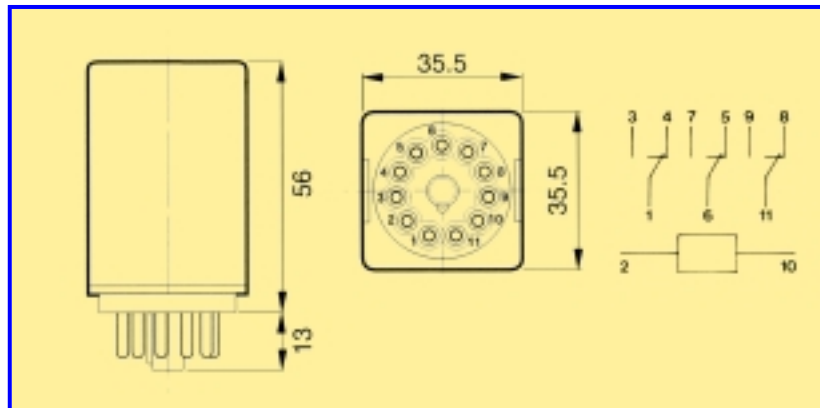
**C4-2** 2-pole changeover **10A-250V AC**  
Connections: plug-in (8 pin)  
Protective dust cover  
Weight: 80 grams

Standard features:  
Push-to-test / turn-to-lock button  
Flag indicator of state.  
LED coil supply indicator  
Identification label



**C4-3** 3-pole changeover **10A-250V AC**  
Connections: plug-in (11 pin)  
Protective dust cover  
Weight: 85 grams

Standard features:  
Push-to-test / turn-to-lock button  
Flag indicator of state.  
LED coil supply indicator  
Identification label



## APPROVALS



All dimensions in mm

## COIL CHARACTERISTICS

Rated Voltage V	DC		AC		
	Rated Current mA	Resistance R $\Omega$	Rated Current mA	Resistance R $\Omega$	Impedance Z $\Omega$
6	250	23.5	420	4	14
12	125	95	210	16	57
24	63	430	105	70	230
48	31	1630	52	320	920
110	14	6800	-	-	-
115	-	-	22	1600	5200
230	-	-	11	6800	21000

Power supply voltage:

6-12-24-48-115-230 VAC  
6-12-24-48-60-110 VDC

Rated power:

1.5W (DC) ; 2.5 VA (AC)

Operating range:

- 20% to + 10% of nominal

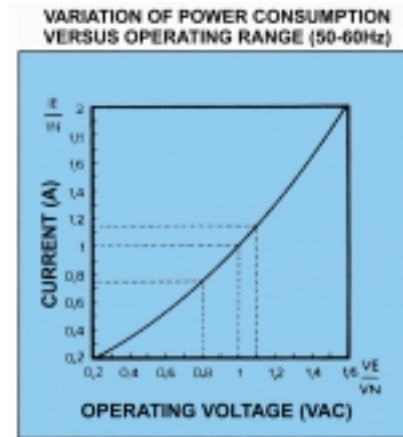
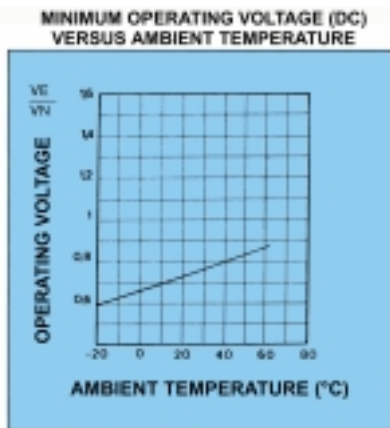
Minimum hold voltage:

80% of nominal (AC)  
50% of nominal (DC)

Must release voltage:

15% of nominal (AC & DC)

Thermic insulation class of winding  
(IEC 317): F (155°C)



## CONTACT CHARACTERISTICS

Power rating (AC1) : 2500 VA

Switching power (DC1) : 280 W

Rated current : 10A (cos $\phi$  1) 7A (cos $\phi$  0.4)

Rated voltage: 250V AC – 30VDC

Max switched voltage: 250 VAC - 120 VDC

Max instantaneous current (1): 20A

Max single-phase motor load: 1/3 HP

(cos $\phi$  0.7 – 240 VAC max)

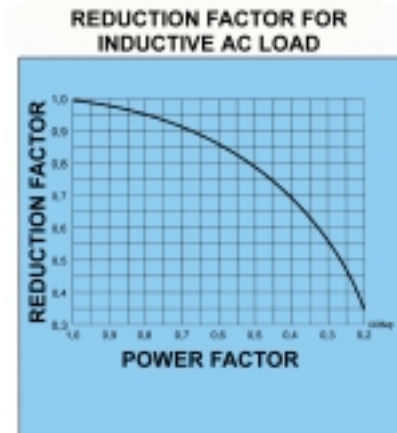
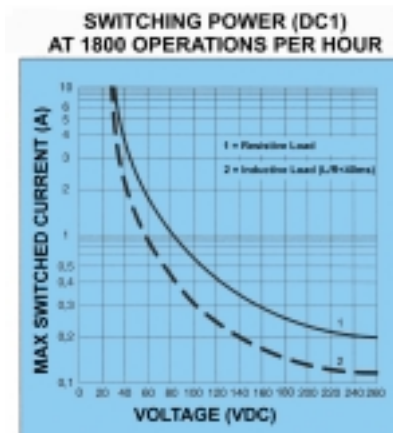
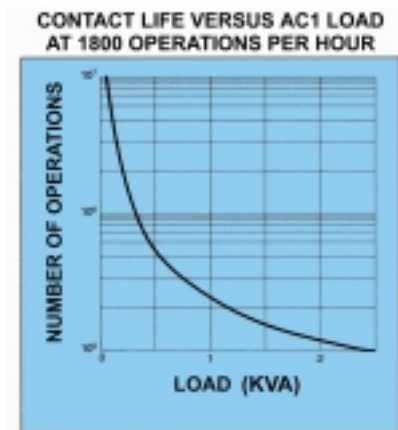
Initial contact resistance (2): max. 30 m $\Omega$

standard 10 m $\Omega$

Contact material: Ag90% - CdO10%

(1) Max. time 1 sec.

(2) Category of application (EN 60255) : 3



## ORDERING INFORMATION

**C4 - 3 - 230AC**

1

2

3

1 - Relay type: C4

2 - Number of poles: 2 (8-pin / Octal)

3 (11-pin / Undecal)

3 - Coil supply voltage: (AC or DC)