

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 :	2000 V RMS
Between adjacent contacts :	2000 V RMS
Between open contacts :	1000 V RMS
Ground / live parts :	4000 V RMS

OPERATING TIMES (At Rated Voltage)

Operate (including bounces) :	max 30	milliseconds
Release (including bounces) :	max 20	milliseconds
Bounces :	max 10	milliseconds

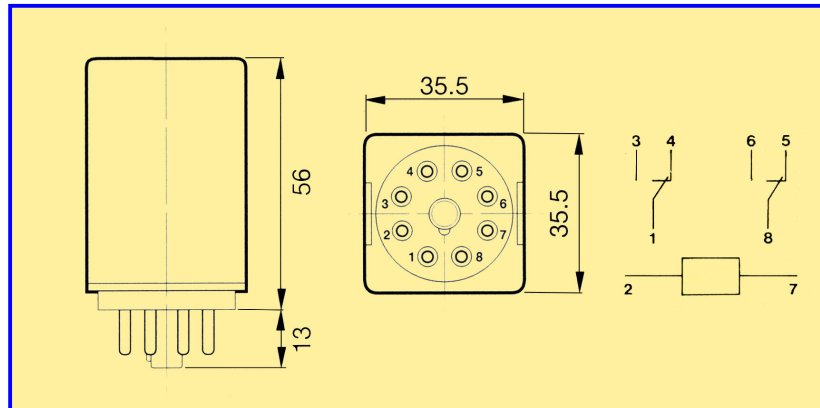
SPECIFICATION

Min. insulation resistance	5x10 ² 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 ⁷ 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

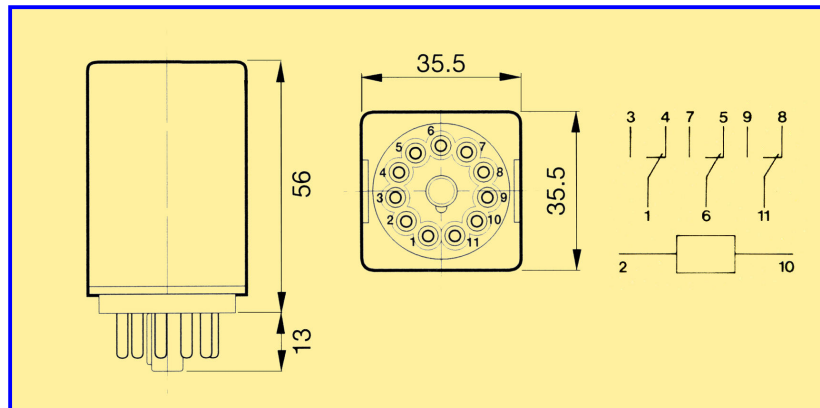
C4-2 2-pole changeover **10A-250V AC**
Connections: plug-in (8 pin)
Protective dust cover
Weight: 80 grams

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



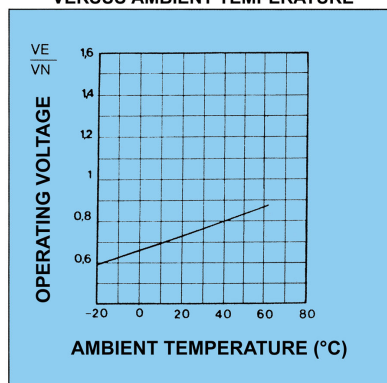
All dimensions in mm

COIL CHARACTERISTICS

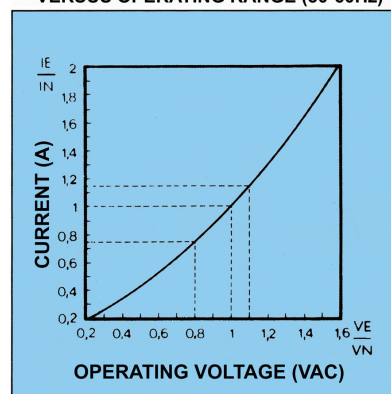
Rated Voltage V	DC		AC		
	Rated Current mA	Resistance R Ω	Rated Current mA	Resistance R Ω	Impedance Z Ω
6	250	23.5	420	4	14
12	125	95	210	16	57
24	63	430	105	70	230
48	31	1630	52	320	920
110	14	6800	-	-	-
115	-	-	22	1600	5200
230	-	-	11	6800	21000

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)

MINIMUM OPERATING VOLTAGE (DC)
VERSUS AMBIENT TEMPERATURE



VARIATION OF POWER CONSUMPTION
VERSUS OPERATING RANGE (50-60Hz)



CONTACT CHARACTERISTICS

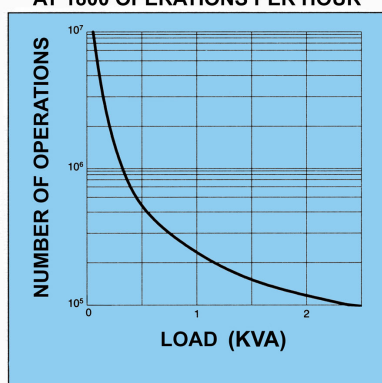
Power rating (AC1) : 2500 VA
Switching power (DC1) : 280 W
Rated current : 10A (cos ϕ 1) 7A (cos ϕ 0.4)
Rated voltage: 250V AC – 30VDC
Max switched voltage: 250 VAC - 120 VDC
Max instantaneous current (1): 20A

Max single-phase motor load: 1/3 HP
(cos ϕ 0.7 – 240 VAC max)
Initial contact resistance (2): max. 30 m Ω
standard 10 m Ω
Contact material: Ag90% - CdO10%

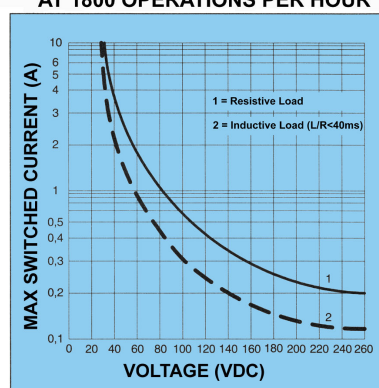
(1) Max. time 1 sec.

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

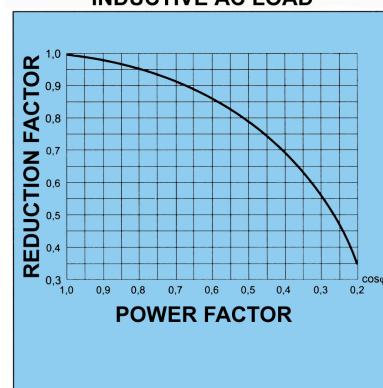
CONTACT LIFE VERSUS AC1 LOAD
AT 1800 OPERATIONS PER HOUR



SWITCHING POWER (DC1)
AT 1800 OPERATIONS PER HOUR



REDUCTION FACTOR FOR
INDUCTIVE AC LOAD



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)