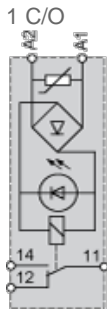


- (1) Essential on inductive loads (can be replaced with peak limiter)
- (2) PLC positive logic transistor (or relay) outputs

## Interface with Mechanical Indication + LED

### Circuit Diagram

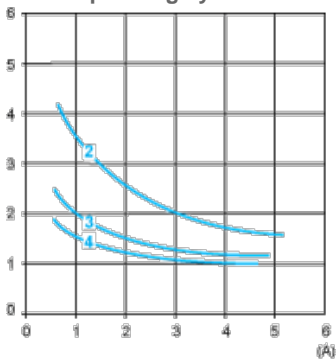


## Electrical Durability of Contacts

### AC Loads

Test conditions: in accordance with standard IEC 947-5-1 set up for rated control voltage, operating rate: 1800 cycles/hour. (0.5 Hz).

### AC-12 operating cycles in millions

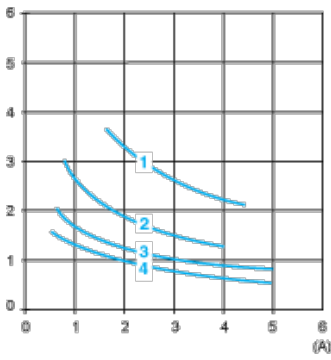


AC- Control of resistive loads and isolated solid state loads via optocoupler ( $\cos \phi \geq 0.9$ )

12

- (1) 24 V
- (2) 48 V
- (3) 127 V
- (4) 230 V

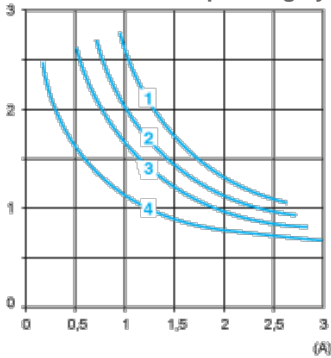
### AC-13 operating cycles in millions



AC- Control of isolated solid state loads via transformer ( $\cos \phi \geq 0.65$ )  
13

- (1) 24 V
- (2) 48 V
- (3) 127 V
- (4) 230 V

AC-14 and AC-15 operating cycles in millions



AC- Control of weak electromagnetic loads of electromagnets  $\leq 72$  VA (make:  $\cos \phi = 0.3$ , break:  $\cos \phi = 0.3$ )  
14

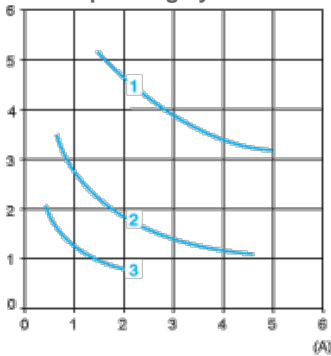
AC- Control of electromagnetic loads of electromagnets  $> 72$  VA (make:  $\cos \phi = 0.7$ , break:  $\cos \phi = 0.4$ )  
15

- (1) 24 V
- (2) 48 V
- (3) 127 V
- (4) 230 V

### DC Loads

Test conditions: in accordance with standard IEC 947-5-1 set up for rated control voltage, operating rate: 1800 cycles/hour. (0.5 Hz).

DC-12 operating cycles in millions



DC- Control of resistive loads and isolated solid state loads via optocoupler ( $L/R \leq 1$  ms)  
12

- (1) 24 V
- (2) 48 V
- (3) 127 V

DC-13 operating cycles in millions