

## »» Features



- DPDT ; 4PDT General Purpose Power Relay.
- DC / AC Coil.
- 10A 24VDC/250VAC ; UL, CSA/CUS Approvals.
- With position indicator and manual override.
- Optional LED and protection diode.
- Comply with RoHS-Directive 2002/95/EC, and ELV-Directive 2000/53/EC.

## »» Type List

Terminal style	Contact form	Designation (provided with)	Enclosure style	
			Dust cover with manual	Dust cover with lockable manual
Quick terminal	2C (DPDT)	LED	305-2CC-D-1	305-2CC-DM-1
		Diode & LED	305-2CC-D-4	305-2CC-DM-4
	4C (4PDT)	LED	305-4CC-D-1	305-4CC-DM-1
		Diode & LED	305-4CC-D-4	305-4CC-DM-4

## »» Ordering Information

305 - 4C CA - DM - 1  
 1        2    3        4        5

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| <p>1. 305 -- Basic series designation</p> <p>2. 2C -- Double pole double throw<br/>                 4C -- Four pole double throw</p> <p>3. C -- Contact material AgNi<br/>                 CA -- Contact material AgNi + Au plating</p> <p>4. D -- Dust cover with manual<br/>                 DM -- Dust cover with lockable manual</p> | <p>5. Blank -- Without special features</p> <p>1 -- Coil parallel with LED</p> <p>2 -- Coil parallel with diode, the positive pole "+" on #14 terminal</p> <p>3 -- Coil parallel with diode, the negative pole "-" on #14 terminal</p> <p>4 -- Coil parallel with diode &amp; LED, the positive pole "+" on #14 terminal</p> <p>5 -- Coil parallel with diode &amp; LED, the negative pole "-" on #14 terminal</p> |
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## »» Contact Rating

Rated load (resistive)	10A / 250VAC
Max. switching current	20A
Max. switching capacity	2000VA

## Coil Rating (DC)

Rated voltage (V)	Rated current $\pm 10\%$ at 23° C (mA)	Coil resistance $\pm 10\%$ at 23° C ( $\Omega$ )	Max. continuous voltage at 60° C	Pick up voltage(Max) at 23° C	Drop out voltage(Min) at 23° C	Power consumption at rated voltage
12	83.9	143	110 % of rated voltage	80% of rated voltage	5% of rated voltage	approx. 1.0W
24	41.7	576				
48	21.3	2,250				
60	18.6	3,225				
110	9.1	12,100				
125	8.8	14,200				
220	5.0	44,230				

## Coil Rating (AC)

Rated voltage (V)	Coil resistance $\pm 10\%$ at 23° C ( $\Omega$ )	Max. continuous voltage at 60° C	Pick up voltage(Max) at 23° C	Drop out voltage(Min) at 23° C	Power consumption at rated voltage
12	46.5	110 % of rated voltage	85% of rated voltage	15% of rated voltage	approx. 0.98VA
24	177				
48	762				
60	1,200				
115	4,570				
120	4,570				
230	19,040				

## »» Specification

Contact material	AgNi alloy	
Contact resistance <sup>(1)</sup>	100 m $\Omega$ Max.	
Operate time <sup>(1)</sup>	10 ms Max.	
Release time <sup>(1)</sup>	10 ms Max.	
Insulation resistance <sup>(1)</sup>	1,000 M $\Omega$ Min. (DC 500V)	
Dielectric strength <sup>(1)</sup>	Between open contact	: AC 1000V , 50/60Hz 1 min.
	Between contact and coil	: AC 2500V , 50/60Hz 1 min.
	Between contact circuits	: AC 2000V , 50/60Hz 1 min.
Vibration resistance	Operating extremes	30 ~ 100Hz , 4G
	Damage limits	30 ~ 100Hz , 10G
Life expectancy	Mechanical	20,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations (frequency 1,800 operations/hr)
Operating ambient temperature	-40 ~ +60° C (no freezing)	
Weight	Approx. 33g	

Note : (1) initial value

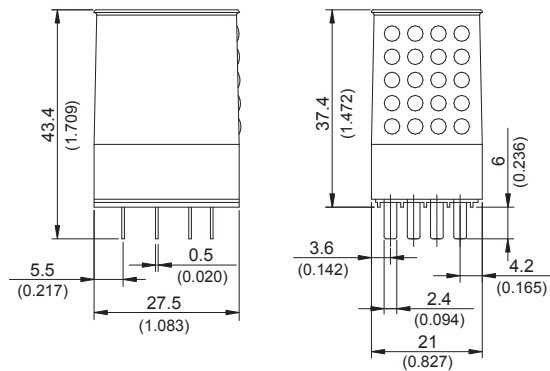
### »» Safety Approval

Certified	UL	CSA / CUS
File No.	E63473	171397

### »» Safety Approval Rating

UL	CSA / CUS
10A 24VDC / 250VAC 1/6HP 120VAC / 240VAC	10A 24VDC / 250VAC

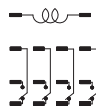
### »» Outline Dimensions



### »» Wiring Diagram

BOTTOM VIEW

4C



2C

