



German Technology

»» 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.

»» 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
 4C -- Four pole double throw</p> <p>3. C -- Contact material AgNi
 CA -- Contact material AgNi + Au plating</p> <p>4. D -- Dust cover with manual
 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 & LED, the positive pole "+" on #14 terminal</p> <p>5 -- Coil parallel with diode & 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

305

»» Coil Rating (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	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 ±10 % at 23°C (Ω)	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				
220/230/240	19,040				

»» Specification

Contact material	AgNi alloy	
Contact resistance ⁽¹⁾	100 mΩ Max.	
Operate time ⁽¹⁾	10 ms Max.	
Release time ⁽¹⁾	10 ms Max.	
Insulation resistance ⁽¹⁾	1,000 MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	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 , NC>2G, NO>10G
Life expectancy	Mechanical	20,000,000 operations (frequency 18,000 operations/hr)
Operating ambient temperature	-40 ~ +60°C (no freezing)	
Weight	Approx. 33g	

Note : (1) initial value

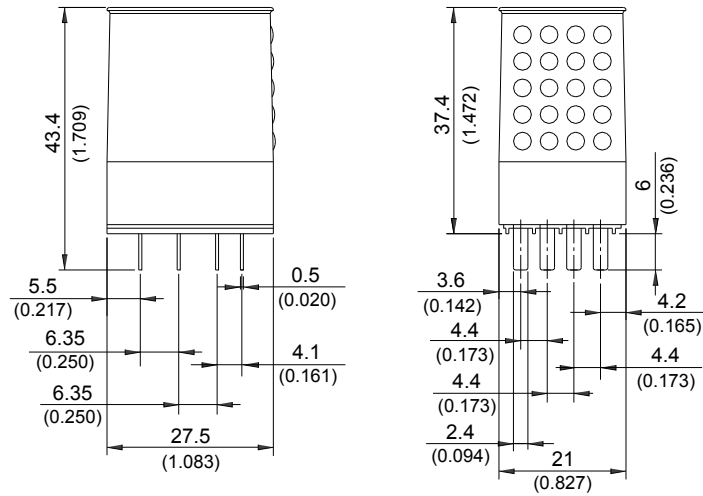
»» Safety Approval

Certified	UL	CSA / CUS
File No.	E74321	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



»» Engineering Data

