



German Technology

»» Features

- 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 2011/65/EU.

»» Type List

Terminal style	Contact form	Designation (provid with)	Enclosure style	
			Dust cover with manual	Dustcover with lockable manual
Quickterminal	4C (4PDT)	LED	305-4CC-D-1	305-4CC-DM-1
			305-4CC-D-4	305-4CC-DM-4

»» Ordering Information

305 - 4C CA - DM - 1 XXVXC
 1 2 3 4 5 6

- | | |
|--|---|
| <p>1. 305 -- Basic series designation</p> <p>2. 4C -- Four pole double throw</p> <p>3. C -- Contac material AgNi
CA -- Contact material AgNi + Au plating</p> <p>4. D -- Dust coer 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 the #14 terminal</p> <p>3 -- Coil parallel with diode, the negative pole „-“ on the #14 terminal</p> <p>4 -- Coil parallel with diode & LED, the positive pole „+“ on the #14 terminal</p> <p>5 -- Coil parallel with diode & LED, the negative pole „-“ on the #14 terminal</p> <p>6. XXVXC -- Coil voltage (please refer to the coil rating data for the availability)“</p> |
|--|---|

»» Contact Rating

Rated load (resistive)	10A / 250VAC
Max. switching current	20A
Max. switching capacity	2500VA



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»»» 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	Pickup 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⁾	100mΩ 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

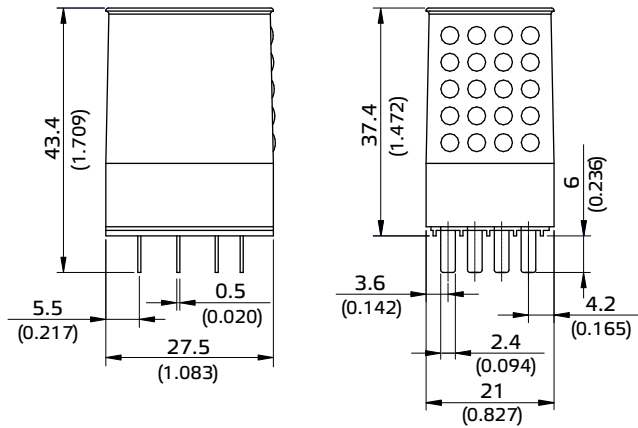
»»» Safety Approval

Certified	UL	CSA / CUS
File No.	E 74321	171397

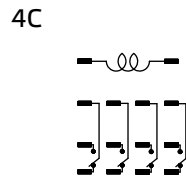
»»» Safety Approval Rating

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

»» Outline Dimensions



»» Wiring Diagram BOTTOM VIEW





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»» Engineering Data

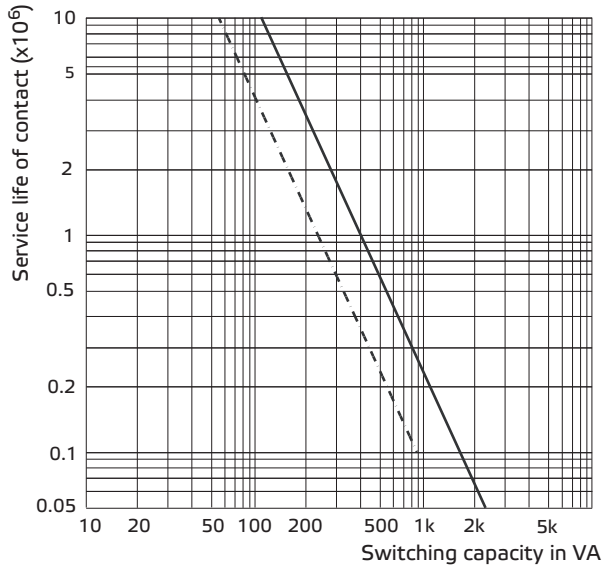
Electrical Service Life AC

90 % operating

— resistive load

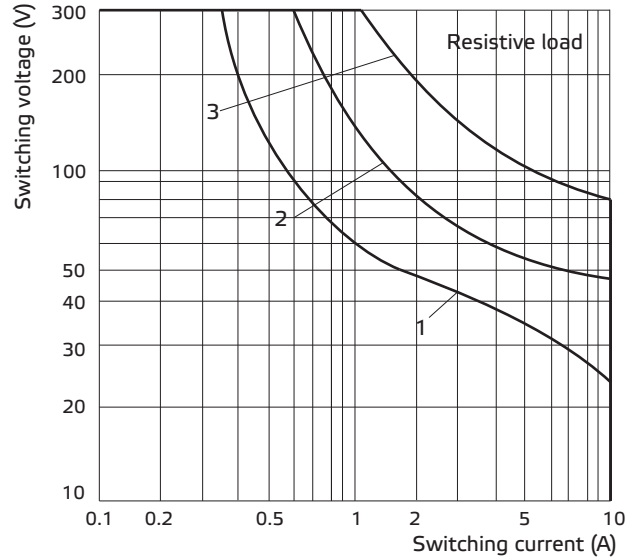
- - - inductive load

$\cos \phi = 0.4 \dots 0.7$

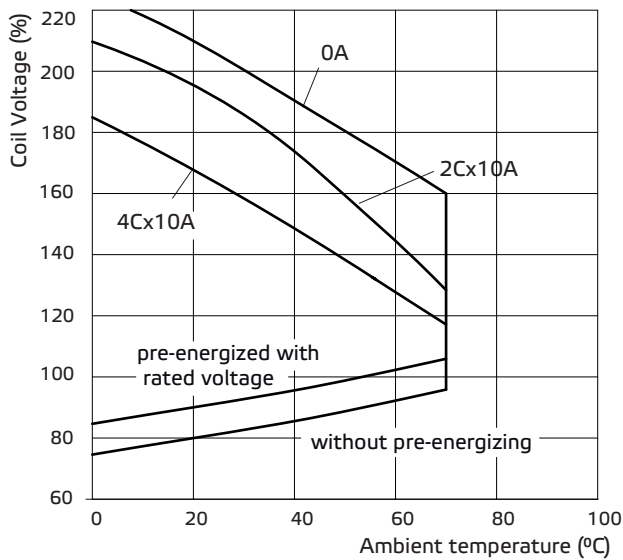


Max DC load breaking capacity

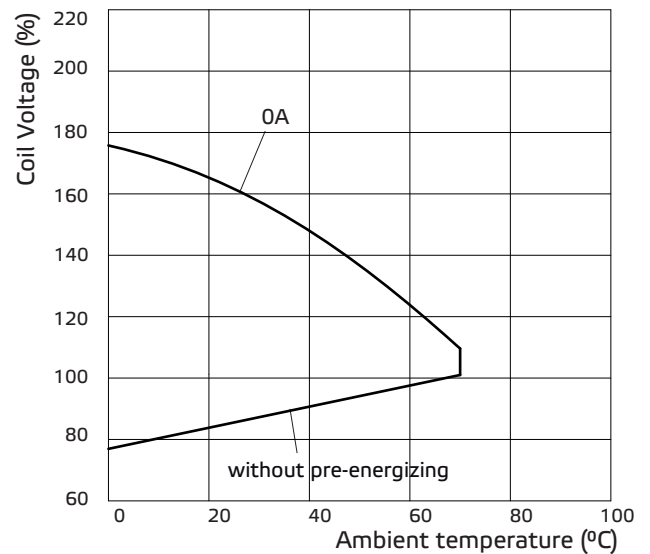
- 1 one contact
- 2 two contacts in series
- 3 four contacts in series



Coil operating range DC



Coil operating range AC



Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or liability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of Song Chuan are reserved.