

# KSD205 SERIES

# DOUBLE GROUP CONVERSION RELAY



File No.:E75887



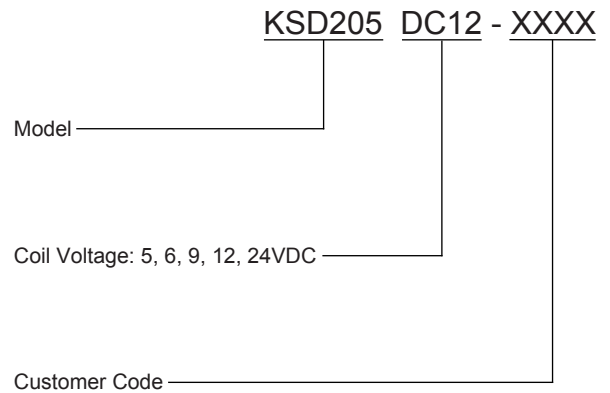
## FEATURES

- Miniature Two Pole Relay
- High Reliability
- 6 Amp Switching
- Fully Sealed
- Low Cost

## CONTACT RATINGS

Contact Arrangement	2C
Contact Resistance	≤100mΩ (1A 6VDC)
Contact Material	Silver Alloy
Contact Rating(Resistive)	6A/240VAC, 5A/30VDC
Max. Switching Voltage	240VAC/30VDC
Max. Switching Current	6A
Max. Switching Power	1440VA/150W
Mechanical Life	1×10 <sup>7</sup> operations
Electrical Life	See more details at "safety approval ratings"

## ORDERING INFORMATION



## CHARACTERISTICS

Insulation Resistance		50MΩ (500VDC)
Dielectric Strength	Between coil & contacts	1000VAC 1min
	Between open contacts	750VAC 1min
Operate time (at nomi. volt.)		≤10ms
Release time (at nomi. volt.)		≤10ms
Humidity		40% ~ 85% RH
Operation temperature		-40°C~+85°C
UL Class B		Insulation System Class B
Shock Resistance	Functional	98m/s <sup>2</sup>
	Destructive	980m/s <sup>2</sup>
Vibration resistance		10Hz ~ 55Hz 1.5mm DA
Unit weight		Approx. 12g
Construction		Sealed Type

## COIL DATA at 25°C

Nominal Voltage VDC	Operate Voltage (Max.) VDC	Release Voltage (Min.) VDC	*Max. Allowable Voltage VDC	Coil Resistance Ω±10%
3	2.25	0.3	4.5	15
5	3.75	0.5	7.5	42
6	4.50	0.6	9.0	60
9	6.75	0.9	13.5	135
12	9.00	1.2	18.0	240
24	18.00	2.4	36.0	960

Note:  
 \*\*Max Allowable Voltage\*: The relay coil can endure max allowable voltage for a short period time only.

Notes:1) The data shown above are initial values.  
 2) Please find coil temperature curve in the characteristic curves.

This datasheet is for customers' reference. All the specifications are subject to change without notice.



# RELAYS

\* SINCE 1976 \*

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## COIL

Coil Power	600mW
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## SAFETY APPROVAL RATINGS

UL&CUL	N.O./N.C.:6A 240VAC, 6×10 <sup>3</sup> OPS N.O./N.C.:5A 30VDC, 6×10 <sup>3</sup> OPS
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NOTES:

1. All values without specified temperature are at 25°C.
2. The above lists the typical loads only. Other loads may be available upon request.

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT.

Unit: inch(mm)

Outline Dimensions

Wiring Diagram  
(Bottom view)

PCB Layout  
(Bottom view)

The technical drawings include:

- Outline Dimensions:** Two side views showing dimensions such as .890(22.6) MAX, .670(17) MAX, .772(19.6) MAX, and .138 (3.5) MIN. A bottom view shows dimensions like .209(5.3), .402(10.2), .098(2.5), and .15 (3.8).
- Wiring Diagram:** A schematic showing the coil and two sets of contacts (N.O. and N.C.) with terminal connections.
- PCB Layout:** A bottom view showing the footprint of the relay on a PCB with dimensions like .209(5.3), .402(10.2), .098(2.5), .197(5), and 8-Φ059(1.5).

Unless otherwise specified tolerances are:

≤1mm	>1mm and ≤5mm	>5mm
±0.2mm	±0.3mm	±0.4mm

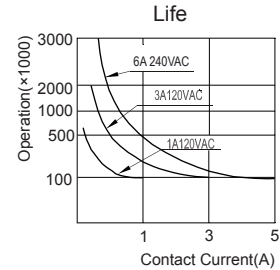
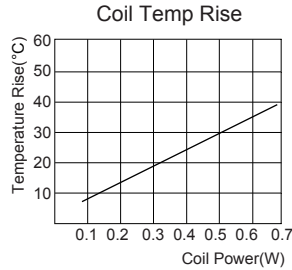
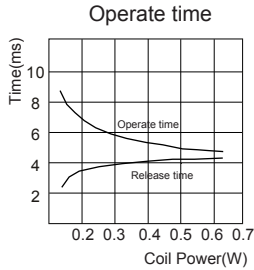
\* The tolerance without indicating for PCB layout is always ±0.1mm.

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## CHARACTERISTIC CURVES



## PACKAGING SPECIFICATION

TUBE	OUTER CARTON	OUTER CARTON SIZE
25PCS	1200PCS	L482mm*W240mm*H190mm

## APPLICATION GUIDELINES

### Automatic Wave Soldering

- \* Wave solder is the optimum method for soldering.
- \* Adjust the level of solder so that it does not overflow onto the top of the PC board.
- \* Unless otherwise specified, solder under the following conditions depending on the type of relay.

Preheat time 20°C-100°C	Rising slope 20°C-120°C	Decreasing slope Peak-150°C	Soldering temperature 255°C-265°C
90±5 seconds	<3°C/s	<4°C/s	3~5s

### Hand Soldering

- \* Keep the tip of the soldering iron clean.

Solder Iron	30W or 60W
Iron Tip Temperature	Approx. 350°C 662°F
Solder Time	Within approx. 3 seconds

- \* Immediate air cooling is recommended to prevent deterioration of the relay and surrounding parts due to soldering heat.
- \* Although the sealed type relay can be cleaned, avoid immersing the relay into cold liquid (such as washing solvent) immediately after soldering. Doing so may deteriorate the sealing performance.

### Discard the dropped product

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