
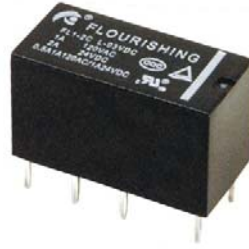


# FL1-2C

# Telecom Relay

 E332369



20.5×10×11.8

- DPDT configuration
- High sensitivity
- DIP standard terminals
- Sealed version
- Surge strength 1500V FCC68
- Clearance more than 1.2 mm between coil and contacts
- Creepage more than 1.9 mm between coil and contacts
- Conform to RoHS,ELV directive

## CONTACT DATA

Contact Form	2Z
Contact Material	Silver Alloy
Load	Resistive load(COS Φ=1)
Contact Ratings	1A 120VAC 2A 24VDC
Minimum load	1mA 5VDC
Max Switching Voltage	240VAC/60VDC
Max Switching Current	2A
Max Switching Power	120VA/60W
Contact Resistance	100m Ω Max at 6VDC 1A
Electrical	100, 000 Operations(at30Operations/minute)
Mechanical	10, 000, 000 Operations(at300Operations/minute)

## CHARACTERISTICS DATA

Insulation Resistance	100M Ω Min at 500VDC
Between Open Contacts	500VAC( for one minute)
Between Contacts and coil	1000VAC( for one minute)
Operate Time	6ms
Release Time	4ms
Temperature Range	-30℃to+70℃
Shock Resistance	Operating Extremes: 10G
	Damage Limits: 50G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical:18,000operations/hr Electrical:1,800operations/hr
Humidity	40-85%
Weight	Approx 5g

## APPROVED STANDARDS

UL & cUL	1A 120VAC 2A 24VDC
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## COIL DATA

at 20℃

### Coil Power 0.15W

Nominal Voltage (VDC)	Rated Current (mA)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
3	50	2.4	0.15	60
5	29.9	4	0.25	167
6	25	4.8	0.3	240
9	16.7	7.2	0.45	540
12	12.5	9.6	0.6	960

### Coil Power 0.2W

Nominal Voltage (VDC)	Rated Current (mA)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
3	66.7	2.25	0.3	45
5	40	3.75	0.5	125
6	33.3	4.5	0.6	180
9	22.2	6.75	0.9	405
12	16.7	9	1.2	720
24	8.3	18	2.4	2880

### Coil Power 0.36W

Nominal Voltage (VDC)	Rated Current (mA)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
3	120	2.25	0.3	25
5	72	3.75	0.5	70
6	60	4.5	0.6	100
9	40	6.75	0.9	220
12	30	9	1.2	400
24	15	18	2.4	1600
48	7.5	36	4.8	6400

### Coil Power 0.45W

Nominal Voltage (VDC)	Rated Current (mA)	Max Operate Voltage (VDC)	Min Release Voltage (VDC)	Coil Resistance (Ω ±10%)
3	150	2.25	0.3	20
5	89.2	3.75	0.5	56
6	75	4.5	0.6	80
9	50	6.75	0.9	180
12	37.5	9	1.2	320
24	18.7	18	2.4	1280
48	9.4	36	4.8	5100

- 3-24VDC Coil Resistance Tolerance±10%,
- 48VDC Coil Resistance Tolerance±15%.

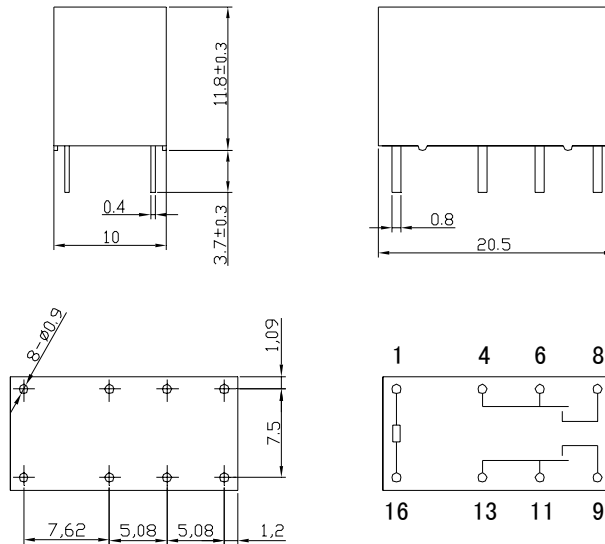


## ORDERING CODE

FL1-2C    D — 12VDC  
 1            2            3

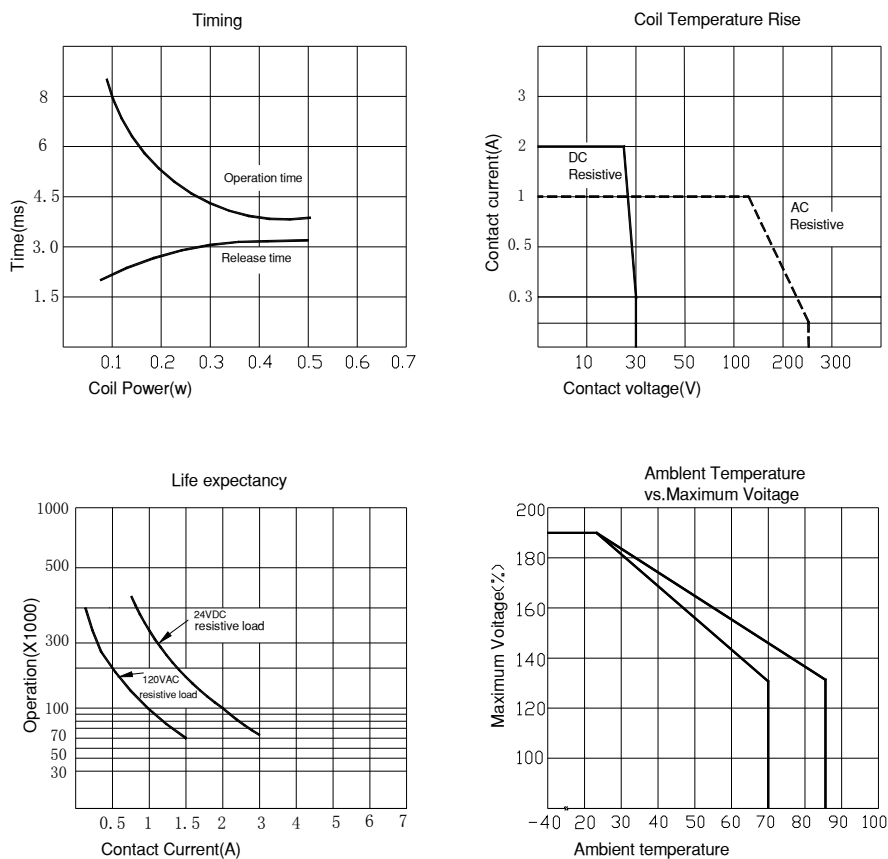
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|-----------------------------------|-------------------------|
| 1. Relay Model                    | 3. Coil Nominal Voltage |
| 2. Coil Power                     | 3,5,6,9,12,24,48VDC     |
| D=0.36W, L=0.2W, M=0.15W, N=0.45W |                         |

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND LAYOUT



Layout (Bottom View)

## ENGINEERING DATA



**FLOURISHING RELAY**

The specifications are for the customer's reference and are subject to change without notice.