

SPECIFICATION

IRS1

TELECOM RELAY

CONTACT DATA

Contact arrangement	1C
Contact resistance	50mΩ(at 1A 6VDC)
Contact material	Silver Alloy
Rated voltage	250 VAC
Min. switching voltage	5 VDC
Max. switching voltage	250VAC,30VDC
Rated current	12A
Rated Power	DC: 0.53W, AC : 1.2VA
Min. switching current	100mA/5VDC
Mechanical endurance	1 x 10 ⁷ ops
Electrical endurance	1 x 10 ⁵ ops

CHARACTERISTICS DATA

Insulation resistance		100MΩ Min (at 500VDC)
Dielectric strength	Between coil & contacts	5000VAC 1min
	Between open contacts	1000VAC 1min
Surge voltage		6000VAC(1.2/50μs)
Operate time (at nomi. Volt.)		20ms.
Release time (at nomi. Volt)		10ms.
Shock resistance	Functional	10G
	Destructive	100G
Vibration resistance		10Hz to 55Hz 1.5mm DA
Humidity		40% to 85% RH
Ambient temperature		-40°C to 70°C
Termination		socket

COIL

Coil power	530mW / 1.2VA
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COIL DATA

at 23°C

DC TYPE

(530mW)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
5	3.75	0.5	106.4	47 x (1±10%)
6	4.50	0.60	88.2	68 x (1±10%)
12	9.00	1.2	44.4	270 x (1±10%)
24	18.0	2.4	22.0	1090 x (1±10%)
48	36	4.8	11.0	4350 x (1±10%)
100	75	10	5.3	18870 x (1±10%)
110	82.5	11	4.8	22830 x (1±10%)

AC TYPE

(1.2VA)

Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Rated Current (mA)	Coil Resistance Ω
12	9.00	1.2	93.0	66.2 x (1±10%)
24	18.0	2.4	46.5	265 x (1±10%)
48	36	4.8	25.0	1060 x (1±10%)
100/110	75/82.5	10/11	11.0/13.0	4600 x (1±10%)
220/240	165/180	220/240	5.0/5.9	22260 x (1±10%)

Notes : 1) The data shown above are initial values.

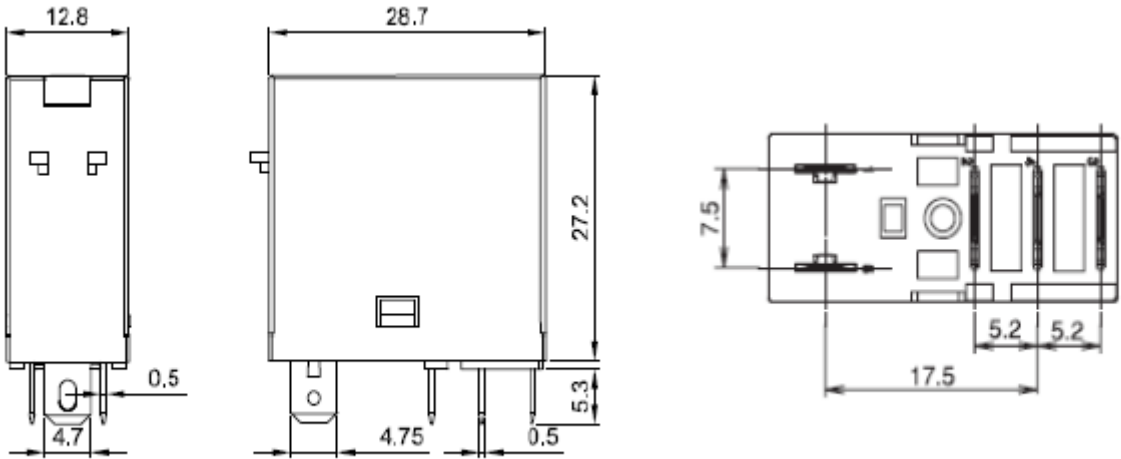
2) Please find coil temperature curve in the characteristic curves below.

ORDERING INFORMATION

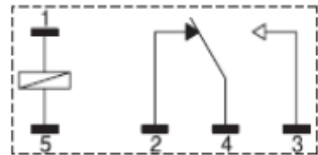
	IRS1	-DC	24V	L
Type				
Contact form	DC : DC AC : AC			
Coil voltage	DC :5, 6, 9, 12, 24, 48 ,100, 110V AC: 12,24,48,100/110,220/240V			
Construction	L : led type ,Nil : standard			

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

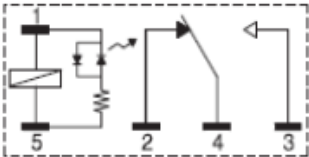
Unit:mm



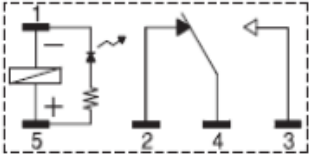
standard



LED (AC TYPE)



LED (DC TYPE)



CHARACTERISTIC CURVES

