JT2160

MINIATURE HIGH POWER RELAY





CONTACT DATA

Contact arrangement	1A	1B	1C(NO)	1C(NC)		
Contact resistance	50mΩ max.(at 1A 24VDC)					
Contact material			AgCo	dO,AgSnO ₂		
Max.switching capacity	7200VA/600W 3600VA/300W 4800VA/600W		2400VA/300W			
Max.switching voltage	277VAC/30VDC					
Max.switching current	40A 15A 20A 10A					
Contact rating (Res.load)	30A 240VAC 20A 30VDC		20A 240VAC 20A 30VDC			
Mechanical endurance	1 x 10 ⁷ OPS					
Electrical endurance	1A type(Non-plastic sealed):1 x 10⁵ OPS (30A 240VAC,Resistive load, Room temp,1s on 9s off)					

CHARACTERISTICS

Insulation resistance			1000M Ω (at 500VDC)			
Dielectirc	Betw	een coil&contacts	2500VAC 1min			
strength	Betw	een open contacts	1500VAC 1min			
Operate tir	ne(at	nomi.volt.)	15ms max.			
Release tir	ne(at	nomi.volt.)	10ms max.			
Ambient te	npera	ature	-55℃ to 85℃			
		Functional	98m/s			
Shock resistance		Destructive	980m/s²			
Vibration resistance		ince	10Hz to 55Hz 1.5mm DA			
Humidity			5% to 85% R⊦			
Termination			PCB&QC			
Unit weight			Approx.35			
Construction			Plastic sealed, Dust protected			

Notes: 1) For plastic sealed type, the venting-hole should be opened in test.

2) The data shown above are intial values.

3) Please find coil temperature cerve in the characteristic curves below.

4) UL insulation system: Class F, Class B.



Features

- 30A switching capability
- PCB coil terminals, ideal for heavy duty load
- 2.5kV dielectric strength
- (between coil and contacts)
- · Plastic sealed and Dust protected type available • UL insulation system: Class F available
- Environmental friendly product (RoHS compliant)
- Outline Dimensions: (32 x 27.5 x 19.8)mm

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Coil power

Approx	.900mW

at 23℃

COIL DATA Pick-up Dorp-out Nominal Voltage VDC Max. Coil Voltage VDC Voltage VDC Voltage VDC* Resistance Ω max. min. 5 3.75 0.5 6.5 27 x (1±10%) 6 4.50 0.6 7.8 40 x (1±10%)

9	6.75	0.9	11.7	97 x (1±10%)
12	9.00	1.2	15.6	155 x (1±10%)
15	11.25	1.5	19.5	256 x (1±10%)
18	13.50	1.8	23.4	380 x (1±10%)
24	18.00	2.4	31.2	660 x (1±10%)
48	36.00	4.8	62.4	2560 x (1±10%)
70	52.50	7.0	91.0	5500 x (1 \pm 10%)
110	82.50	11.0	143.0	13450 x (1±10%)

Notes: 1) *Maximum Voltage refers to the maximum voltage which relay coil could endure in a short period of time.

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Contact material	Load type	Volts	1 Form A	1 Form B	1 Form C(NO)	1 Form C(NC)
	General	125/240VAC	30A	15A	30A	15A
	purpose	277VAC	30A	30A	30A	30A
		125/240VAC	30A	15A		
		30VDC	20A	10A	20A	10A
	Resistive	277VAC	20A			
		240VAC	15A			
		250VAC	40A		40A	
	Ballast	125/240/277VAC	6A	3A	6A	3A
		125VAC	800VA	290VA	800VA	290VA
		125VAC	690VA		690VA	
	Pilot duty	125VAC	800VA		800VA	
		240VAC	1152VA	768VA	1152VA	768VA
		277VAC	764VA		764VA	
		125VAC	1HP	1/4HP	1HP	1/4HP
AgCdO	CdO Motor load	240VAC	2HP	1HP	2HP	1HP
		125VAC	1HP		1HP	
		125/277VAC	3/4HP		3/4HP	
	_	120VAC	82.8LRA,13.8FLA		82.8LRA,13.8FLA	
	Definite	125VAC	96LRA,30FLA	33LRA,10FLA	60LRA,20FLA	33LRA,10FLA
purpose (LRA- loaded rotor)	125VAC	60LRA,20FLA	30LRA,12FLA	60LRA,20FLA	30LRA,12FLA	
	125VAC	82.8LRA,27FLA		82.8LRA,27FLA		
	(FLA-full load)	240VAC	80LRA,30FLA	33LRA,10FLA	60LRA,20FLA	33LRA,10FLA
		240VAC	41.4LRA,6.9FLA		41.4LRA,6.9FLA	
	277VAC	60LRA,20FLA		60LRA,20FLA		
		125VAC	15A		15A	
	Tumgsten	240VAC	5A		5A	3A
	Tunigstell	120VAC		3A		
		240VAC		3A		

SAFETY APPROVAL RATINGS

ORDERING INFORMATION

	JT2160-	1A -	12D	Е	Т	F	(XXX)
Туре							、
Contactarrangement 1	A:1FormA B:1FormB	C :1Form C					
Coil voltage	5,6,9,12,18	,24,48,70,	110VDC				
Construction ¹⁾	E :Plastic se	ealed Ni	:Flux prod	ofed			
Contact material	T :AgSnO₂	Ni	l:AgCdO				
Insulation standard	F :Class F	Ni	I: Class B				
Special code ³⁾	XXX:Custo	mer speci	al requirer	nent	Nil:S	Standra	ad

Notes: 1) We recommend dust protected types for a clean environment (free from contaminations likeH₂S,SO₂orNO₂,dust,ect.). We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S,SO₂ or NO₂, dust,ect.).

2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB.

3) The customer special requirement express as special code after evaluating by JINTIAN.

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

1 Form A

Unit: mm

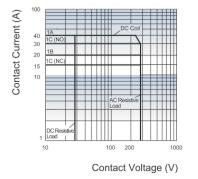
17.8

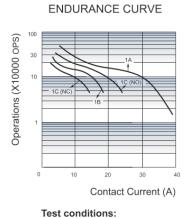
Wiring Diagram **Outline Dimensions** PCB Layout (Bottom view) 27.5 19.8 8.4 3.6 5 æ 32 15.24 0 2-Ø2.1 0 0 2-Ø1.1 (Top view) (Bottom view) (Top view) 17.8 1 Form B 27.5 2-Ø2.1 19.8 3.6 10.2 32 12.7 0 3.8 0 0 2-Ø1.1 (Bottom view) (Top view) (Top view) 14 17.8 1 Form C 3-Ø2.1 27.5 19.8 9 3.6 2 7.6 ΑB 15.24 32 0 0 0 2-Ø1.1 (Top view) (Bottom view) (Top view) 14

Remark:1) In case of no tolerance shown in outline dimension:outline dimension ≤1mm,tolerance should be ±0.2mm;outline dimension>1mm and≤5mm,tolerance should be±0.3mm;outline dimension>5mm,tolerance should be±0.4mm.
2) The tolerance without indicating for PCB layout is always±0.1mm.

CHARACTERISTIC CURVES

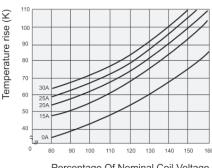
MAXIMUM SWITCHING POWER





Resistive load, AgCdO, Dust protected, Room temp., 1s on 9s off.

COIL TEMPERATURE RISE



Percentage Of Nominal Coil Voltage

Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact JINTIAN for the technical service. However, it is the user's responsibility to determine which product should be used only.