


US
 File N:E319069


DVE
 File N:40048367


CQC
 File N:CQC17002173824


Features

- 10A switching capability
- Creepage distance: 8mm(coil&contacts)
- Creepage distance: NO type 45mm, CO type 4mm
- 1Form A and Form C configurations
- Standard PCB layout
- Plastic sealed and flux poofed types available
- UL insulation system: Class F
- Environmental friendly product (RoHS compliant)
- Outline dimensions: (20.5 x 012 x 513)mm
- Product in accordance to EC 6335-1 available

CONTACT DATA

Contact arrangement	1A, 1C				
Contact resistance ¹⁾	100mΩ max.(at 1A 6VDC)				
Contact material	AgSnO ₂				
Contact rating (Res.load)	1A	1C			
		NO	NC		
	5A 277VAC 5A 30VDC 10A 125VAC	5A 277VAC 5A 30VDC 10A 25A/C	3A 277VAC 3A 30VDC		
Max.switching voltage	277VAC/30VDC				
Max.switching current	10A	3A			
Max.switching power	1385VA/150W	831VA/90W			
Mechanical endurance	1 x 10 ¹² ops				
Electrical endurance	1H type: 1 x 10 ¹² ops(5A 277VAC, General load, Room temp, 1s on 9s off) 1Z type: 1 x 10 ¹² ops (NO:5A/NC:3A 277VAC, General load, Room temp, 1s on 9s off)				

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

CHARACTERISTICS

Insulation resistance	1000MΩ (at 60VDC)				
Dielectric strength	Between coil&contacts	4000VAC min			
	Between open contacts	1000VAC min			
Operate time(at nom.volt.)	8ms max.				
Release time(at nom.volt.)	5ms max.				
Shock resistance	Functional	98m/s ²			
	Destructive	980m/s ²			
Vibration resistance	10Hz ~ 5Hz 15mm Δ				
Humidity	5% ~ 8% RH				
Ambient temperature	-40 ~ 80				
Termination	PCB				
Unit weight	Approx. 8g				
Construction	Plastic sealed				
	Flux poofed				

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

COIL

Coil power	Standard: Approx. 50mW Sensitive: Approx. 80mW
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COIL DATA

Standard type

Nominal Vdage VDC	Pick-up Vdage VDC ¹⁾	Drop-out Vdage VDC ¹⁾	Max. Vdage VDC ²⁾	Coil Resistance Ω
3	"d 2.25	"e 0.15	3.9	20 x 1± 10%
5	"d 3.75	"e 0.25	6.5	55 x 1± 10%
6	"d 4.50	"e 0.30	7.8	80 x 1± 10%
9	"d 6.75	"e 0.45	11.7	180 x 1± 10%
12	"d 9.00	"e 0.60	15.6	320 x 1± 10%
18	"d 13.5	"e 0.90	23.4	720 x 1± 10%
24	"d 18.0	"e 1.20	31.2	1280 x 1± 10%
48	"d 36.0	"e 2.40	62.4	5120 x 1± 10%

Sensitive type Only for 1 form A)

Nominal Vdage VDC	Pick-up Vdage VDC ¹⁾	Drop-out Vdage VDC ¹⁾	Max. Vdage VDC ²⁾	Coil Resistance Ω
3	"d 2.25	"e 0.15	4.5	45 x 1± 10%
5	"d 3.75	"e 0.25	7.5	125 x 1± 10%
6	"d 4.50	"e 0.30	9.0	180 x 1± 10%
9	"d 6.75	"e 0.45	13.5	400 x 1± 10%
12	"d 9.00	"e 0.60	18.0	720 x 1± 10%
18	"d 13.5	"e 0.90	27.0	1600 x 1± 10%
24	"d 18.0	"e 1.20	36.0	2800 x 1± 10%

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

2)*Maximum Vdage refers to the maximum voltage which relay oil could endure in a short period of time.


JINTIAN RELAY

ISO9001 ISO14001 OHSAS18001 CERTIFIED

SAFETY APPROVAL RATINGS

UL/CUL	AgSnO ₂	1 Form A	5A 27VAC 30VDC 70 10A 25VAC Ø 10A 20VAC Ø 1A 20VAC Ø 15LRA/2.5FLA 20VAC Ø 4A 20VAC Ø
		1 Form C	NC:3A 27VAC/30VDC 07
VDE	AgSnO ₂	1 Form A	5A 27VAC 07
		1 Form C	NC:3A 27VAC 07
CQC	AgSnO ₂	1 Form A	5A 27VAC 30VDC 58
		1 Form C	NC:3A 27VAC/30VDC 58

Notes: 1)All values unspecified at room temperature.

2)Only typical data are listed above. Other data specifications can be available upon request.

ORDERING INFORMATION

Type	J33F	120	H	\$	T	FXXX)
Coil Voltage	3,5,6,9,12,18,24,48 VDC					
Contact arrangement	1 Form A	Z.1 Form C				
Construction ⁽¹⁾	S: Plastic sealed Nil: Flux proofed					
Contact power	L:Sensit(Only for 1 Form A) Nil:Standard					
Contact material	T:AgSnO ₂					
Insulation standard	F:Class F					
Specified ⁽³⁾	XXX:Customer special requirement	Nil:Standard				

Notes: 1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S, SO₂, NO₂, dust, etc.).

We suggest to choose plastic sealed types and validate in real application for a clean environment with contaminations like H₂S, SO₂, NO₂, dust, etc.).

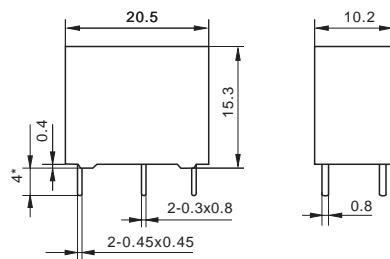
2) Contact is recommended for suitable cleaning specifications if water cleaning or surface process is involved in assembling relays on PCB.

3) The customer special requirement express a special code after evaluating by UNITIAN. e.g.(335) stands for product in accordance to EC 6335-1(GWT).

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB BOARD LAYOUT

Unit: mm

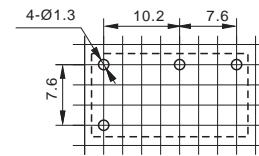
Outline Dimensions
1 Form A



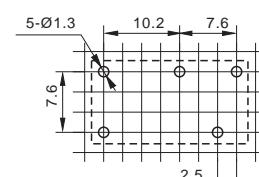
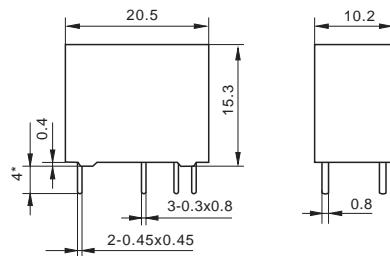
Wiring Diagram
(Bottom view)



PCB layout
(Bottom view)



1 Form C



Remark: 1) The dimension in the product outline drawing is the size before inking it will become larger after inking), and the mounting hole size is the recommended design size of the PCB board hole. The specific PCB board hole design size can be mapped and adjusted according to the actual product.

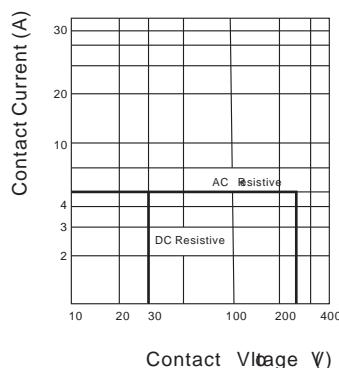
2) The clearance between outline dimension:outline dimension'd 1mm, tolerance should be ± 0.2 mm; outline dimension' 1mm add 5mm, tolerance should be ± 0.3 mm; outline dimension' 5mm, tolerance should be ± 0.4 mm.

3) The clearance without indicating for PCB layout is always ± 0.1 mm.

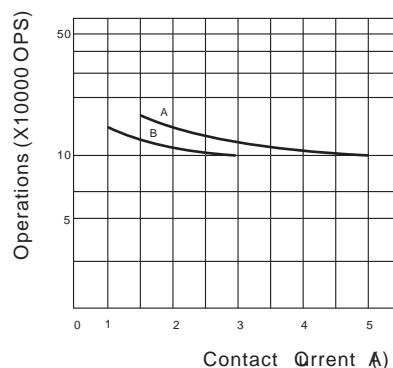
4) The width of the gapping is 25mm.

CHARACTERISTIC CURVES

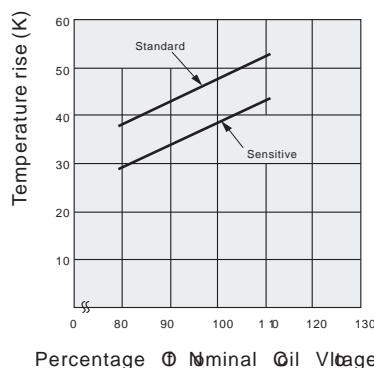
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL TEMPERATURE RISE



Notes:

- Curve A: NO contact
Curve B NC contact
- Test conditions:
Curve A: NO, Resistive load, Room temp.,
lux poofed, 277VAC/30VDC,
s a g f1
Curve B NC, Resistive load, Room temp.,
lux poofed, 27VAC/30VDC,
s a g f1

Test conditions:

Standard: Δ at 0°C

Sensitive: Δ at 0°C

Mounting distance: 0mm

Disclaimer

The specification is for reference only. See Terminology and Guidelines for more information. Specifications subject to change without notice. We could not evaluate all the performance and 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 INTIAN or the technical service. However, this is the user's responsibility to determine which product should be used only.