

OTXKC	Auto Relay
	Features ● 40A switching capability ● Subminiature, standard PCB layout ● Dust-proof type and flux-proof type are available ● Outline Dimensions: (13.2 x 12.3 x 9.8) mm ● Typical applications: central door lock, wiper control, instrument control, automatic doors and Windows, anti-theft system, rear Windows and seats, heating control, lighting/flash/indicator light control

CONTACT DATA

Contact arrangement	1A、1C
Load	Resistive load (COS φ =1) Cut 13.5VDC
Contact material	AuAg
Minimum load	0.5A 12VDC
Max. switching current	40A
Max. switching power	420W
Contact resistance	100MΩ Max at 6VDC 1A
Mechanical endurance	1x10 ⁷ OPS(at 300 times/min)
Electrical endurance	See table below

CHARACTERISTICS

Insulation resistance	100mΩ(500VDC)	
Operate time (at rated. volt.)	4ms	
Release time (at rated. volt.)	2ms	
Shock resistance	6 msec up to 30g	
Vibration resistance	10-55Hz, 6g	
Humidity	20%~50%RH	
Ambient temperature	-40℃~105℃	
Dielectric strength	Between coil & contacts	500VAC 1min
	Between open contacts	500VAC 1min
Unit weight	4g	

Notes:(1) The electrical durability is measured by the normally open contact or normally closed contact.

CONTACT DATA

Contact load voltage	Payload type		Contact load current A		Break-make ratio		Frequency ops/min	Electric durability (time)
			Normally open type	Normally closed type	Connect S	Disconnect S		
13.5VDC	Resistive load		20	-	1	5	15	3x10 ⁵
	Wiper motor	Connect	25	25	0.2	2	15	3x10 ⁵
		Disconnect	5	5	1.8			
	Motor lock L= 1.0MH		20	-	0.2	2	15	1x10 ⁵
	The flash (3)		3 x 21W	-	0.365	0.365	80	2x10 ⁵
	LED	Connect	40(2	-	2	2	6	1x10 ⁵
		Disconnect	10	-				

Notes (1); Motor initial peak impact current;

(2) Initial cold filament peak impact power supply;

(3) When used for flashlight load, wiring should be in accordance with the polarity requirements below; Special AgSnO₂ contact shall be used;

(4) The contact wiring diagram is shown below (when using relay with special AgSnO₂ contact, please pay attention to the positive and negative polarity requirements of wiring)

COIL DATA						
Coil power	Nominal Voltage VDC	Coil Resistance ±10%	Rated Current (mA)	Operation voltage VDC	Drop-out Voltage VDC	Max Applicable Voltage
0.57W	6	63	95	≤3.6	≥0.6	130% of rated voltage at 70℃ and 170% of rated voltage at 23℃
	12	254	47.5	≤7.2	≥1.2	
	24	1010	23.7	≤14.4	≥2.4	
0.8W	6	45	133.3	≤3.45	≥0.3	
	12	180	66.7	≤6.9	≥1.2	
	24	720	33.3	≤13.8	≥2.4	

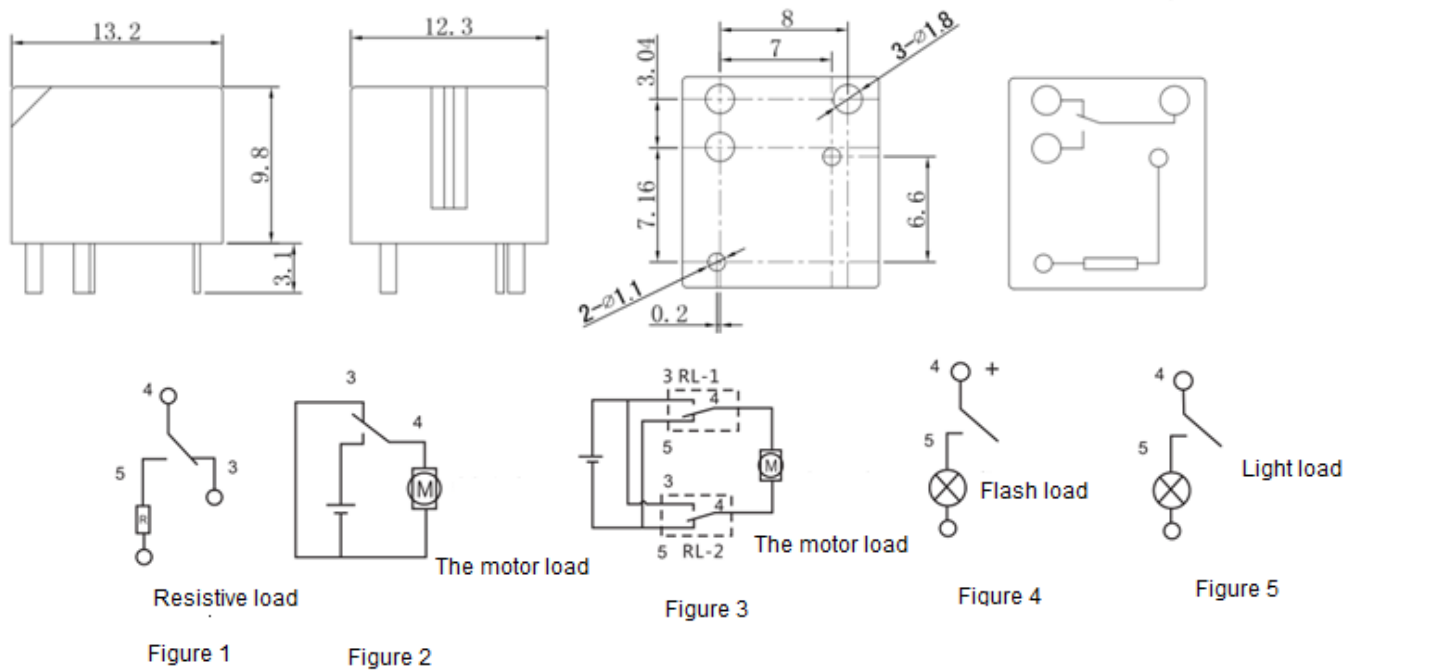
Notes : (1) When users have special requirements different from the above parameters, they can negotiate and order.
(2) 5-24VDC coil resistance tolerance is ± 10%.

ORDERING INFORMATIO

Type	OTXKC	-L	-5V	-1A	-S	-1
Coil power	L: 0.57w D:0.8w					
Coil voltage	6V, 12V, 24V					
Contact arrangement	1A:1FormA 1C:1FormC					
Construction :	S: dustproof type SH : Flux proofed					
Special						

Notes: (1) We recommend flux proofed types for a clean environment (free from contaminations like H₂S、SO₂、SO₂, dust, etc.).
We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S、SO₂、SO₂, dust, etc.).

OMTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOMT UNIT : MM



Notes : (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 and pin size is always ±0.1mm.
(3) This product specification is for reference only, subject to change without prior notice
This specification is for reference only, the actual use is subject to the sample, all relays meet ROHS requirements, if there is any change will not be notified. web:www.qingmu.hk