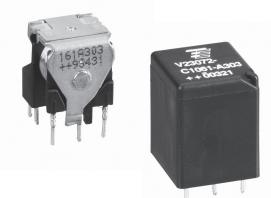


Mini Relay K (Open - Sealed)

Limiting continuous current 20A

24VDC coil versions available

Typical applications Car alarm, hazard warning signal, heated rear screen, immobilizer, lamps front/rear, fog light, interior lights, sun roof, turn signal, wiper control.



F072A/C_fcw2b

high beam

Contact Data

Ounder Data					
Load	resistive/inductive	resistive/inductive	resistive/inductive	head/indicator	head/indicator
	load	load	load	lamp	lamp
	V23072-C10**-A302	V23072-C10**-A303	V23072-C10**-A308	V23072-C1061-A402	V23072-C1061 A408
Contact arrangement	1 form A, 1 NO	1 form C, 1 CO	1 form U/X, 2 NO	1 form A, 1 NO	1 form U/X, 2 NO
Rated voltage	12VDC	12VDC	12VDC	12VDC	12VDC
Rated current	15A	10/15A	2x10A	12A	2x6A
Limiting continuous current					
23°C	15A	10/15A	2x10A	12A	2x6A
85°C	10A	5/10A	2x6A	10A	2x5A
Limiting making current ¹⁾²⁾	60A	NC/NO 12/60A	2x40A	60A ³⁾	120A ³⁾
Limiting breaking current	20A	10/20A	2x20A	6A	12A
Contact material	AgNi0.15	AgNi0.15	AgNi0.15	AgSnO.2	AgSnO.2
Min. recommended contact load 4)	1A at 5VDC	1A at 5VDC	1A at 5VDC	1A at 5VDC	1A at 5VDC
Initial voltage drop at 10A, typ./max		50/300mV	50/300mV	2x50/300mV	150/300mV
150/300mV					
Operate/release time max.			typ. 3/1.5ms ⁵⁾		
Electrical endurance	>2x10 ⁵ ops.	>2x10 ⁵ ops.	>2x10 ⁵ ops.	>1x10 ⁶ ops.	>1.5 x 10 ⁶ ops.
	at 13.5VDC, 10A	at 13.5VDC, 10A	at 13.5VDC, 10A	up to 6x21W	up to 6x21W
				>1.5x10 ⁵ ops.	>7.5x10 ⁵ ops.
				100A (on), 10 A (off)	100A (on), 10A (off)
				bigh beens	biob boom

high beam

1) The values apply to a resistive load or inductive load with suitable spark suppression and at maximum 13.5VDC for 12VDC and 27VDC for 24VDC load voltages.

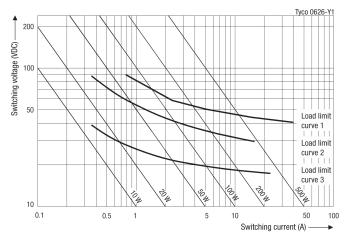
2) For a load current duration of maximum 3s for a make/break ratio of 1:10.

3) Corresponds to the peak inrush current on initial actuation (cold filament).

4) See chapter Diagnostics of Relays in our Application Notes or consult the internet at http://relays.te.com/appnotes

5) For unsuppressed relay coil. A low resistive suppression device in parallel to the relay coil increases the release time and reduces the lifetime caused by increased erosion and/or higher risk of contact tack welding (monostable version only).

Max. DC load breaking capacity



09-2014, Rev. 0914 www.te.com © 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. company. Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Load limit curve 1: safe shutdown, connected as form X, load on pin 5 and 7. Load limit curve 2: safe shutdown, no stationary arc (NO contact). Load limit curve 3: arc extinguishes during transit time (CO contact).

Load limit curves measured with low inductive resistors verified for 1000 switching events.

Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1

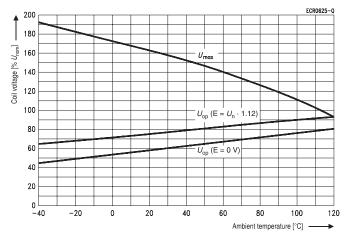


Mini Relay K (Open - Sealed) (Continued)

Coil Data										
Rated co	il voltage		12VDC, 24VDC							
Coil versions, DC coil										
Coil	Rated	Operate	Release	Coil	Rated coil					
code	voltage	voltage	voltage	resistance	power					
	VDC	VDC	VDC	Ω±10%	W					
061	12	6.9	1.2	130	1.1					
062	24	14.1	2.4	520	1.1					

All figures are given for coil without pre-energization, at ambient temperature +23°C.

Coil operating range

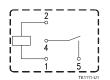


Does not take into account the temperature rise due to the contact current $\mathsf{E} = \mathsf{pre}\text{-}\mathsf{energization}.$

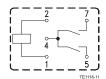
Terminal Assignment (Open and Sealed version)

Bottom view on solder pins

1 form A, NO



1 form U/X, 2 NO

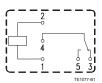


Other Data					
Other Data EU RoHS/ELV compliance	annaliant				
· · · · · · · · · · · · · · · · · · ·	compliant				
Degree of protection					
IEC 61810	RT II – open (V23072-A),				
	RT III – imm. cleanable (V23072-C)				
Climatic cycling with condensation					
EN ISO 6988	20 cycles, storage 8/16h				
Temperature cycling (shock)					
IEC 60068-2-14, Na	720 cycles, -40/+85°C (dwell time 1h)				
Damp heat constant					
IEC 60068-2-3, Ca	56 days, upper air temperatue 55°C				
Corrosive gas					
IEC 60068-2-42	10 days				
IEC 60068-2-43	10 days				
Vibration resistance (functional)					
IEC 60068-2-6 (sine sweep), 10 to 200Hz, 23 to 35g ⁶⁾					
Shock resistance (functional)	-				
IEC 60068-2-27 (half sine), 4 to 6ms 23 to 280g ⁶⁾					
Terminal type	PCB				
Weight, open/sealed	approx. 8/9g (0.28/0.32oz)				
Solderability (aging 3: 4h/155°C)					
IEC 60068-2-20	Ta, method 1, hot dip 5s, 215°C				
Sealing, IEC 60068-2-17	Qc, method 2, 1min/70°C				
Storage conditions	according IEC 6006887)				
Packaging unit	5				
open	600 pcs.				
sealed	504 pcs.				
6) Values weekest direction. Depending or	mounting position: no change in the switching				

state >10µs.

 For general storage and processing recommendations please refer to our Application Notes and especially to Storage in the Definitions or at http://relays.te.com/appnotes/





2

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

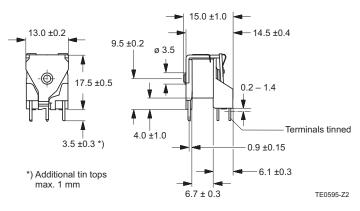
Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



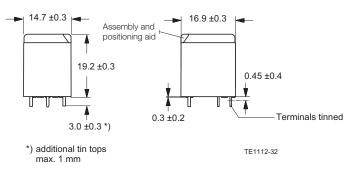
Mini Relay K (Open - Sealed) (Continued)

Dimensions

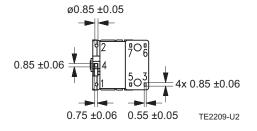
Mini Relay K Open Version



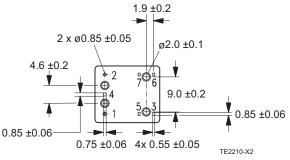
Mini Relay K Sealed Version



View of the terminals (bottom view)

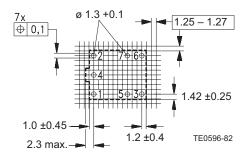


View of the terminals (bottom view)



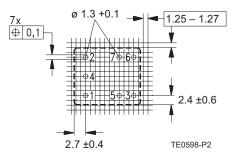
PCB Layout

Bottom view on solder pins, grid 1.25 to 1.27mm



PCB Layout

Bottom view on solder pins, grid 1.25 to 1.27mm



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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.



Mini Relay K (Open – Sealed) (Continued)

Prod	uct co	ode structure		Typical product code	V23	8072	-A	1	061	-A	30	2
Туре					,							
	V230	72 Mini Relay K (Open – Sealed)										
Termi	nal and	l enclosure										
	Α	PCB, open (RT II)	С	PCB, sealed (RT III - immersion cl	leanab	ole)						
Desig	n	· · · · · ·						-				
-	1	Standard										
Coil									-			
	061	12 VDC	062	24 VDC								
Conta	act type	•										
	Α	Standard										
Contact material												
	30	AgNi0.15	40	AgSnO ₂								
Conta	Contact arrangement											
	2	1 form A, NO	3	1 form C, CO	8	1 forn	n U/X, 2	NO				

Product code	Terminal/Encl.	Design	Coil	Contact type	Cont. material	Arrangement	Part number
V23072-A1061-A303	PCB, open	Single relay	12VDC	Standard	AgNi0.15	1 form C, CO	3-1393272-2
V23072-A1062-A303			24VDC				5-1393272-2
V23072-A1061-A308		[12VDC			1 form U/X, 2 NO	3-1393272-6
V23072-A1062-A308] [24VDC				5-1393272-3
V23072-C1061-A302	PCB, sealed		12VDC			1 form A, NO	4-1393273-9
V23072-C1062-A302		[24VDC				7-1393273-6
V23072-C1061-A303			12VDC			1 form C, CO	5-1393273-6
V23072-C1062-A303			24VDC				7-1393273-8
V23072-C1062-A303-EV-USBX*)							2-1414939-5
V23072-C1061-A308		[12VDC			1 form U/X, 2 NO	6-1393273-0
V23072-C1062-A308			24VDC				8-1393273-2
V23072-C1061-A402			12VDC		AgSnO ₂	1 form A, NO ⁸⁾	2-1416001-0
V23072-C1061-A408						1 form U/X, 2 NO ⁸⁾	1-1416001-4
V23072-C1062-A408			24 VDC				1-1414693-0

*) Americas market only.

8) Flasher / Lamp.

4

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 6-1393123-2
 6-1393767-1
 6-1393843-7
 6-1415012-1
 6-1419102-2
 6-1423698-4
 6

 1608051-6
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 6-1616360-9
 6

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 6-1617090-2
 6-1617347-5
 6-1617353-3
 6-1617801-8
 6-1618248-4
 M83536/1-027M
 M83725/1-005
 CX-4014

 MAHC-5494
 MAVCD-5419-6
 703XCX-120A
 7-1393100-5
 7-1393111-7
 7-1393767-8
 7-1419130-3
 7-1608047-2
 7-1608065

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 7-1617090-0
 7-1617090-4
 7-1617090-4
 7-1608047-2
 7-1608065