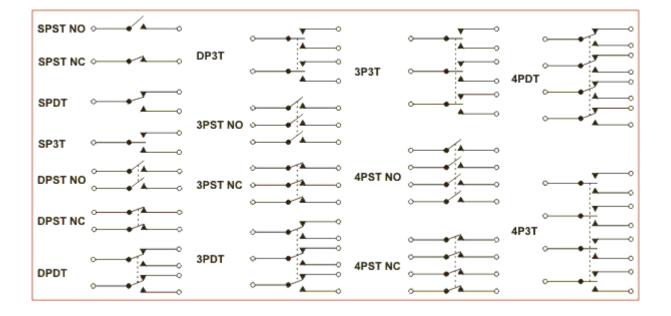


Przekaźnik V23086-C1001-A403;RoHS Ucewki:12VDC; 25A; TE Connectivity



Dane techniczne:

Nazwa: V23086-C1001-A403 Wersja przekaźnika: samochodowy Konfiguracja styków: SPDT Napięcie cewki nominalne: 12VDC Prąd styków maks. : 25A



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Micro Relay K (THT - THR)

- Small power relay
- Limiting continuous current 30A
- Low weight
- Low noise operation
- Wave (THT) and reflow (THR/pin-in-paste) solderable versions

Car alarm, door control, door lock, heated front/rear screen, immobilizer,



E Visologi Croon/IK

086C/R1_fcw1b

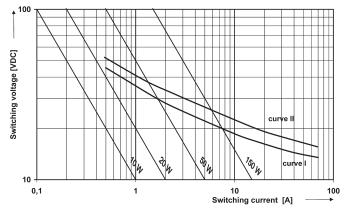
lamps front/rear/fog light, interior lights, seat control, sun roof, window lifter, wiper control.

Typical applications

Contact Data

Typical applications	Resistive/inductive load	Wiper load	Resistive/inductive load	Lamp load ⁵⁾
	V23086-*1*01-A403	V23086-*1*02-A803	V23086-*1*01-A402	V23086-*1*51-A502
Contact arrangement	1 form C, 1 CO	1 form C, 1 CO	1 form A, 1 NO	1 form A, 1 NO
Rated voltage	12VDC	10VDC	12VDC	12VDC
	NO/NC	NO/NC		
Rated current	30/25A	30/25A	30A	30A
Limiting continuous current				
23°Č	30/25A	30/25A	30A	30A
85°C	20/15A	20/15A	20A	20A
Limiting making current	40A ¹⁾	40A ¹⁾	40A ¹⁾	100A ²⁾
Limiting breaking current	30A	30A	30A	30A
Contact material		AgSnO ₂		
Min. recommended contact load		1A at 5VDC ³⁾		
Initial voltage drop at 10A, typ./max.		30/300mV		
Operate/release time		typ. 3/1.5ms4)		
Electrical enduranc				
cyclic temperature -40°C, +25°C, +85°	D°C			
form C contact (CO) at 14VDC	motor reverse blocked,	wiper,		
	25A, 0.77mH	25A make/5A break,		
	>1x10 ⁵ ops.	generator peak,		
		20A on NC,1mH		
		>1x10 ⁶ ops.		
form A contact (NO) at 14VDC	resistive 20A		resistive 20A	lamp 100A inrush,
	>3x10 ⁵ ops.		>3x10 ⁵ ops.	10A steady state >1x10 ⁵ ops. ⁵⁾
Mechanical endurance		>5x10 ⁶ ops.		

Max. DC load breaking capacity



Load limit curve 1: arc extinguishes, during transit time (changeover contact). Load limit curve 2: safe shutdown, no stationary arc (make contact). Load limit curves measured with low inductive resistors verified for 1000 switching events.

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- The values apply to a resistive or inductive load with suitable spark suppression and at maximum 13.5VDC for 12VDC load voltages. For a load current duration of maximum 3s for a make/break ratio of 1:10.
- 2) Corresponds to the peak inrush current on initial actuation (cold filament).
- See chapter Diagnostics of Relays in our Application Notes or consult the internet at http://relays.te.com/appnotes/
- Measured at nominal voltage without coil suppression unit. 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.
- 5) Be aware of using right polarity, see Terminal Assignment. Wrong polarity will reduce endurance.

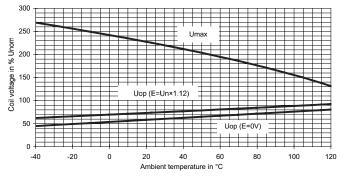
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Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change. 1



Coil Data									
Rated coil	voltage		12VDC						
Coil versions, DC coil									
Coil	Rated	Operate	Release	Coil	Rated coil				
code	voltage	voltage	voltage	resistance	power				
	VDC	VDC	VDC	Ω±10%	mW				
001/801	12	6.9	1.5	254	567				
002/802	10	5.7	1.25	181	552				
051/851	10	6.5	1.1	90	1111				
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 E = pre-energization

Insulation Data

Initial dielectric strength	
between open contacts	500VAC _{rms}
between contact and coil	500VAC _{rms}

Other Data

Other Data	
EU RoHS/ELV compliance	compliant
Ambient temperature, DC coil	-40 to +105°C
Cold storage, IEC 60068-2-1	1000h; -40°C
Dry heat, IEC 60068-2-2	1000h; +125°C
Climatic cycling with condensation,	
EN ISO 6988	20 cycles, storage 8/16h
Temperature cycling (shock),	
IEC 60068-2-14, Na	100 cycles; -40/+125°C
Temperature cycling,	
IEC 60068-2-14, Nb	35 cycles; -40/+125°C
Damp heat cyclic,	
IEC 60068-2-30, Db, variant 1	6 cycles 25°C/55°C/93%RH
Damp heat constant,	
IEC 60068-2-3 method Ca	56 days 40°C/95%RH
Degree of protection	
THT:	RT III (61810), IP67 (IEC 60529)
THR:	RT II (61810), IP56 (IEC 60529)
Sealing test, IEC 60068-2-17: THT	Qc, method 2, 1min, 70°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 500Hz; 6g ⁶⁾
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	6ms, up to 30g ⁶⁾
Terminal type	PCB:THT, THR
Weight	approx. 4g (0.14oz)
Solderability (aging 3: 4h/155°C) THT	
IEC 60068-2-20	Ta, method 1, hot dip 5s, 215°C
Solderability THR	
IEC60068-2-58	hot dip 5s 245°C
Resistance to soldering heat THT	
IEC 60068-2-20	Tb, method 1A, hot dip 10s,
	260°C with thermal screen
Resistance to soldering heat THR	
IEC 60068-2-58	260°C; preheating min 130°C
Storage conditions	according IEC 6006887)
Packaging unit	2000 pcs.

6) Depending on 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/

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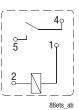
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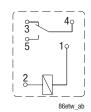
Terminal Assignment

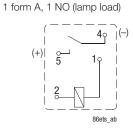
Bottom view on solder pins





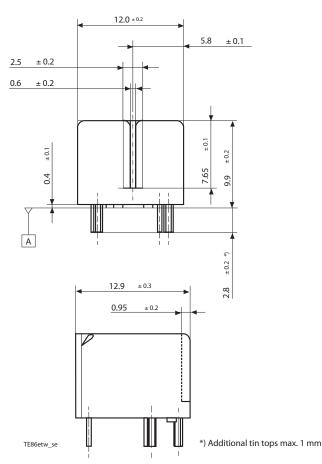
1 form C, 1 CO





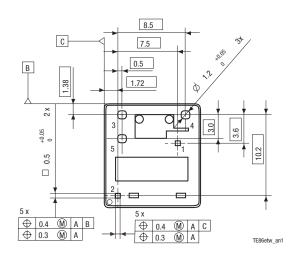
Dimensions

Micro Relay K, THT version



*) Additional tin tops max. 1mm

Mounting Hole Layout Bottom view on solder pins



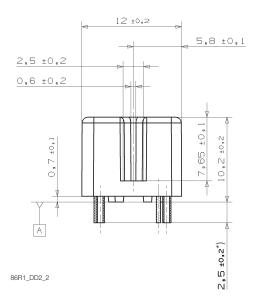
Remark: Positional tolerances according to DIN EN ISO 5458

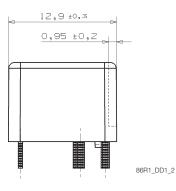
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Micro Relay K, THR version

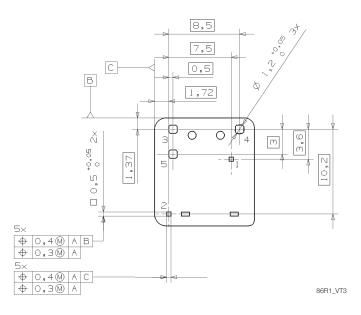




*) Additional tin tops max. 1mm

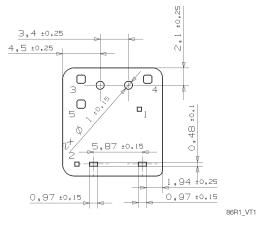
Mounting Hole Layout

Bottom view on solder pins



View of Stand-Offs

Bottom view on solder pins



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Product code structure		Typical product code V23086		-C	1	001	-A	4	03		
Туре	V230	86 Micro Relay K (THT – THR)									
Termi	nal and	d enclosure									
	С	PCB version THT, sealed	R	PCB version THR, vented							
Desig	In										
	1	Single relay									
Coil								-			
	001	Standard (THT)	002	Sensitive (THT)							
	801	Standard (THR)	802	Sensitive (THR)							
	051	Lamp load (THT)	851	Lamp load (THR)							
Conta	act type	e									
	Α	Single contact									
Conta	act mat	terial index									
	4	AgSnO ₂ standard	8	AgSnO ₂ wiper load							
	5	AgSnO ₂ lamp load									
Conta	act arra	angement index									
	02	NO	03	CO							

Product code	Version	Design	Coil	Contact	Cont. material	Arrangement	Part number
V23086-C1001-A402	PCB THT,	Single	Standard	Single	AgSnO ₂ (standard)	1 form A, 1 NO	0-1393280-5
V23086-C1001-A403	cleanable					1 form C, 1 CO	0-1393280-6
V23086-C1051-A502			Lamp load		AgSnO ₂ (lamp)	1 form A, 1 NO	2-1904093-1
V23086-C1002-A803			Sensitive		AgSnO ₂ (lwiper)	1 form C, 1 CO	2-1414987-3
V23086-R1801-A402	PCB THR,		Standard		AgSnO ₂ (standard)	1 form A, 1 NO	2-1904093-2
V23086-R1801-A403	vented					1 form C, 1 CO	6-1414920-0
V23086-R1851-A502			Lamp load		AgSnO ₂ (lamp)	1 form A, 1 NO	9-1904064-4
V23086-R1802-A803			Sensitive		AgSnO ₂ (lwiper)	1 form C, 1 CO	7-1414967-8

This list represents the most common types and does not show all variants covered by this datasheet. Other types on request.

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