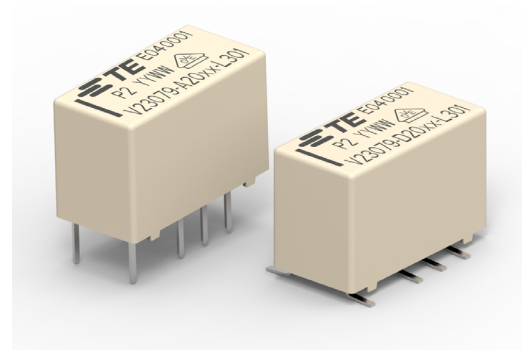


# AXICOM P2 LIGHTING RELAY

## SIGNAL RELAYS

### FEATURES

- Relay for LED tubes meeting EN62776 and VDE
- Slim line 15x7.5 mm (.590x.295")
- 2 form C bifurcated contacts (2 changeover contacts, 2 CO)
- Immersion cleanable
- High sensitivity for low power consumption 140 mW/ 200 mW
- High dielectric strength
- 0.75/1.5 mm contact gap



### APPLICATIONS

- LED tubes applications

### APPROVALS

- VDE Cert. No. 40047571



Technical data of approved types on request.

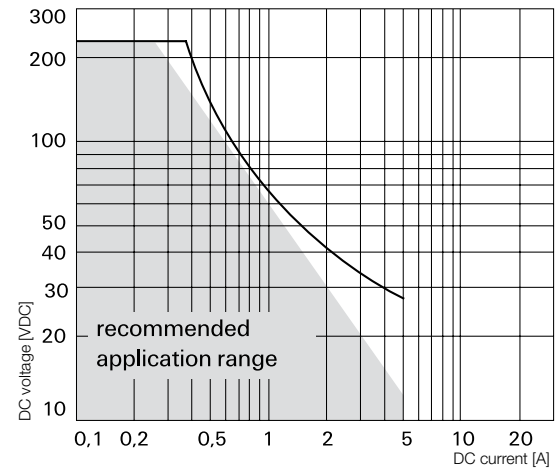
# AXICOM P2 Lighting Relay

## Signal Relays

### CONTACT DATA

Contact arrangement	2 form C (CO)
Max. switching voltage	220 VDC, 250 VAC
Rated current	2 A
Limiting continuous current, 85 °C	2A
Switching Power	60 W, 62.5 VA
Contact material	AgNi, gold-covered
Contact style	bifurcated contact
Minimum switching voltage	100 $\mu$ V
Thermoelectrical potential	<10 $\mu$ V
Initial contact resistance	50 m $\Omega$ @ 10 mA, 20 mV
Frequency of operation, without load	50 operations/s
Operate time	typ. 2 ms, max. 4 ms
Set/reset time	typ. 2 ms, max. 4 ms
Release time	
Without diode in parallel	typ. 2 ms, max. 4 ms
With diode in parallel	typ. 4 ms, max. 6 ms
Bounce time	typ. 1ms, max. 3ms
Contact ratings, IEC 61810	
at 0.5 A/125 VAC/85 °C/resistive	100 k cycles, NO contact
at 1 A/30 VDC/ 85 °C/resistive	100 k cycles, CO contact

### MAX. DC LOAD BREAKING CAPACITY



# AXICOM P2 Lighting Relay

Signal Relays

## COIL DATA

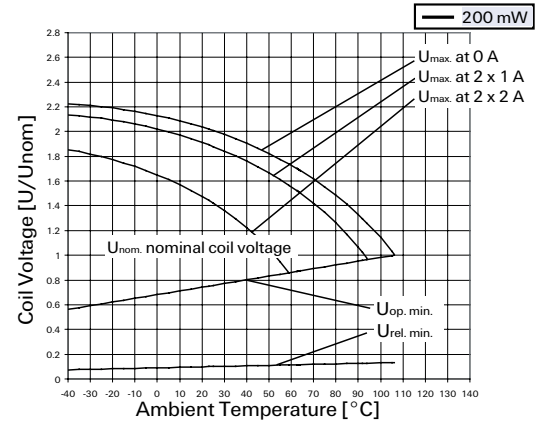
Magnetic system	polarized
Coil voltage range	3 to 24VDC
Max. coil temperature	105°C
Thermal resistance 3.2	< 125K/W

## COIL VERSIONS, DC-COIL

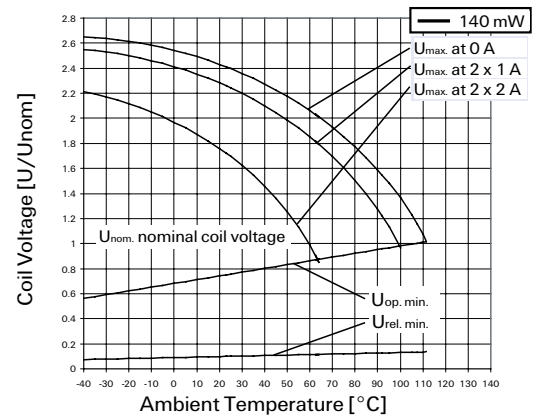
Coil code	Rated voltage VDC	Operate voltage VDC	Limiting voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
Coil versions, monostable lighting relay						
008	3.00	2.25	6.1	0.3	45	200
016	4.00	3.00	8.1	0.4	80	200
011	4.50	3.38	9.1	0.45	101	200
001	5.00	3.75	10.1	0.5	125	200
002	6.00	4.50	12.1	0.6	180	200
006	9.00	6.75	18.2	0.9	405	200
003	12.00	9.00	24.2	1.2	720	200
005	24.00	19.00	48.4	2.4	2500	225
Bistable, 1 coil lighting relay						
108	3.00	2.25	6.5	0.3	64	140
111	4.50	3.38	9.8	0.45	145	140
101	5.00	3.75	10.9	0.5	178	140
102	6.00	4.50	13.0	0.6	257	140
106	9.00	6.75	19.6	0.9	578	140
103	12.00	9.00	26.15	1.2	1028	140

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

## COIL VERSIONS, MONOSTABLE LIGHTING RELAY



## BISTABLE, 1 COIL LIGHTING RELAY



# AXICOM P2 Lighting Relay

Signal Relays

## INSULATION DATA

	LED
Initial dielectric strength	
Between open contacts	1500 Vrms
Between contact and coil	3000 Vrms
Between adjacent contacts	1500 Vrms
Initial insulation resistance at 500 Vdc	$> 10^9 \Omega$
Clearance / creepage	
clearance according to IEC / EN 60950	$> 1.5 \text{ mm}$
creepage according to IEC / EN 60950	$> 1.5 \text{ mm}$
open contact gap	$\geq 0.75 \text{ mm}$
using contacts in serial according to EN62776	$\geq 1.5 \text{ mm}$

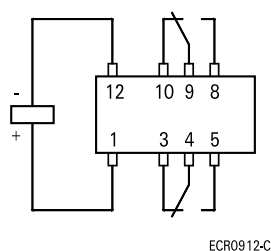
## OTHER DATA

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="http://www.te.com/customer-support/rohssupportcenter">www.te.com/customer-support/rohssupportcenter</a>
Ambient temperature	-40 to +85 °C
Category of environmental protection	
IEC 61810	RT III - wash tight
Vibration resistance (functional)	35g, 10 to 1000Hz
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	100 g
Terminal type	PCB-THT SMT long and short terminals
Weight	max. 2.8 g
Resistance to soldering heat THT	
IEC 60068-2-20	265 °C/ 10 s
Moisture sensitive level, JEDEC J-Std-020D related only to SMT relays packed in original dry-packs	MSL3
Ultrasonic cleaning	not recommended
Packaging/unit	
THT	Box/2000 pcs.
SMT	Reel/2000 pcs. or 2500 pcs.

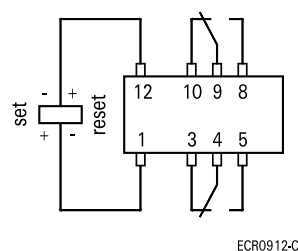
## TERMINAL ASSIGNMENT

### TOP view on component side of PCB

#### Monostable version



#### Bistable version, 1-coil



#### Note:

Contacts are shown in reset condition. Both coils can be used as either set or reset coils. Contact position might change during transportation and must be reset before use.

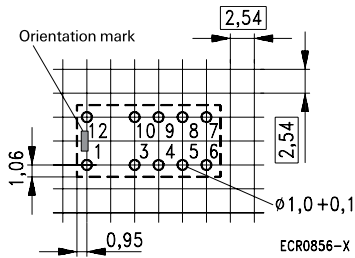
# AXICOM P2 Lighting Relay

Signal Relays

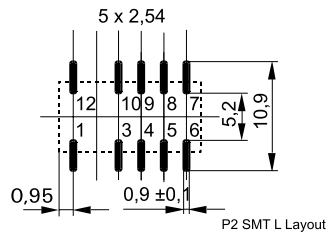
## PCB LAYOUT

TOP view on component side of PCB

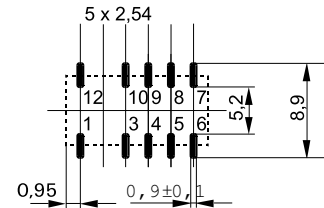
THT version



SMT, long terminals



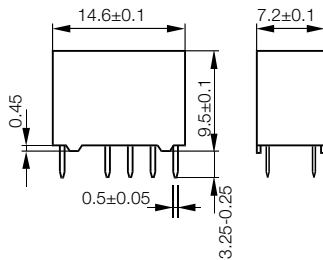
SMT, short terminals



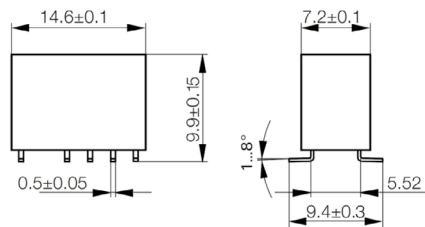
## DIMENSIONS (Unit: mm)

Overmolded coil, high dielectric version

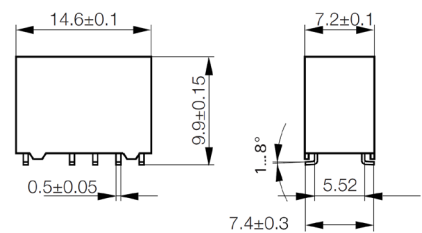
THT version



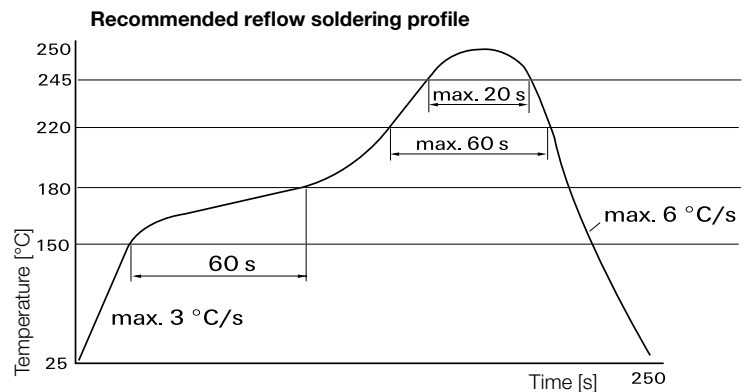
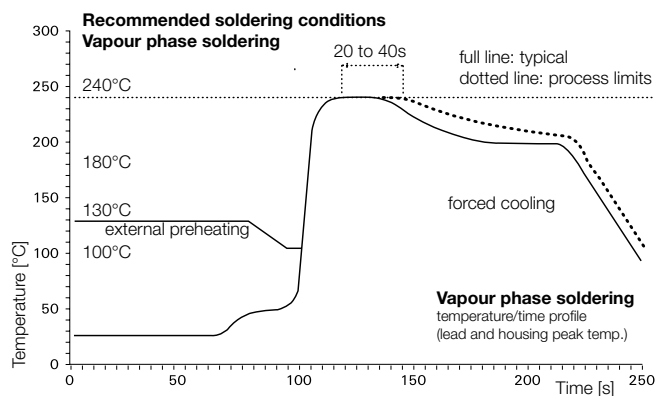
SMT, long terminals



SMT, short terminals



## PROCESSING



## Signal Relays

Technical drawing of a 3-phase 4-pole motor frame, showing front, side, and cross-sectional views with dimensions in mm.

**Front View Dimensions:**

- Overall width:  $115 \pm 0.1$
- Overall height:  $24 \pm 0.3$
- Distance between transport holes:  $1.5 \pm 0.1$
- Transport hole diameter:  $\varnothing 1.5$
- Distance from edge to transport hole:  $4 \pm 0.1$
- Distance between mounting holes:  $8$  and  $48$
- Mounting hole diameter:  $\varnothing 1.5 \pm 0.1$
- Distance between mounting holes:  $16 \pm 0.15$

**Side View Dimensions:**

- Overall height:  $15.4 \pm 0.2$
- Distance from base to top flange:  $1.3 \pm 0.2$
- Distance from base to bottom flange:  $1.2^{+0.2}_{-0.2}$
- Distance from base to top flange:  $2.2 \pm 0.2$
- Distance from base to bottom flange:  $1.9 \pm 0.2$
- Distance from base to top flange:  $4.4 \pm 0.2$
- Distance from base to bottom flange:  $3.6$

**Cross-sectional View Dimensions:**

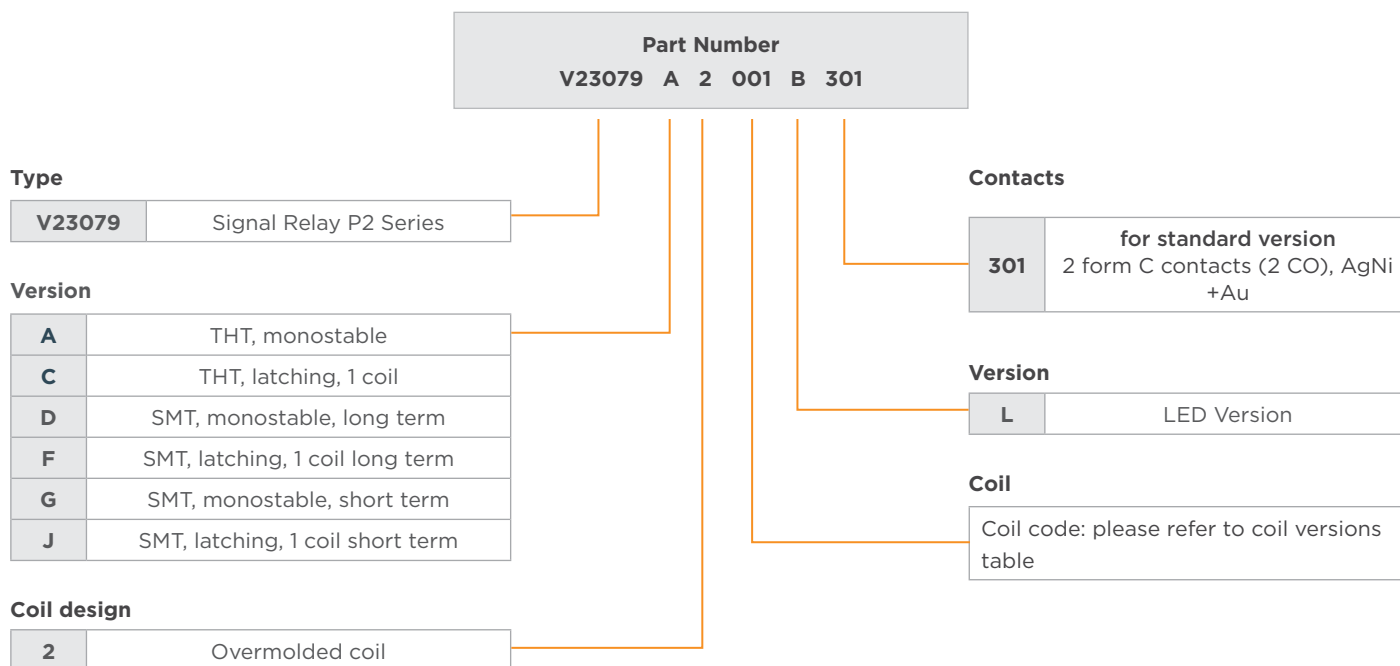
- Overall height:  $10.4^{+0.3}_{-0.2}$
- Distance from base to top flange:  $4 \pm 0.2$
- Distance from base to bottom flange:  $10 \pm 0.2$
- Distance from base to bottom flange:  $12 \pm 0.2$
- Distance from base to top flange:  $12.2 \pm 0.2$
- Distance from base to bottom flange:  $0.6$

**Notes:**

- distance of transport holes 1.5
- $\varnothing 1.5 = 40 \pm 0.2 \text{ mm}$
- $\varnothing 1.1 = 40 \pm 0.2 \text{ mm}$
- $\varnothing 1.2 = 48 \pm 0.2 \text{ mm}$

[illegible]

## ORDERING INFORMATION



## PRODUCT INFORMATION

Product code	Version	Coil type	Coil voltage	Part number
V23079-A2001-L301	THT	Monostable	5VDC	<a href="#">1422008-6</a>
V23079-A2006-L301			9VDC	<a href="#">1-1422008-1</a>
V23079-A2003-L301			12VDC	<a href="#">1422008-7</a>
V23079-D2003-L301	SMT	<a href="#">1422008-9</a>		
V23079-G2003-L301		<a href="#">1422009-1</a>		
V23079-J2111-L301		Bistable, 1 coil	4.5VDC	<a href="#">1422008-8</a>
V23079-A2005-L301	THT	Monostable	24VDC	<a href="#">1-1422008-2</a>
V23079-D2005-L301	SMT			<a href="#">5-1422008-2</a>

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