



- Low profile, therefore particularly suited for flat pack components grouping
- For relays with 1 or 2 form C (CO) contacts:
  - creepage and clearance distances between contacts and frame >5mm or >10mm (depending on the relay version)
  - dielectric strength between contacts and frame 4kV<sub>rms</sub> or 6kV<sub>rms</sub>

### Typical applications

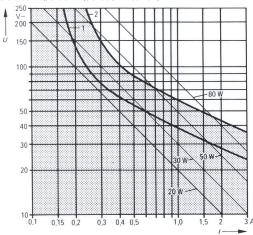
measuring and control systems, alarm and security equipment, road traffic and railway signaling systems

Contact Data	A104	A106	A204	A206
Contact arrangement	4 form C,	6 form C,	4 form C,	6 form C,
-	(4 CO)	(6 CO)	(4 CO)	(6 CO)
Max. switching voltage	250VDC	250VDC	30VDC	30VDC
	250VAC	250VAC	36VAC	36VAC
Limiting continuous cur	rent			
≤50°C ambient	2A	2A	2A	2A
≤75°C ambient	1A	1A	1A	1A
Limiting making/breaking current				
	3A <sup>1)</sup>	3A <sup>1)</sup>	0.2A	0.2A
Contact material	Ag,	Ag,	Gold F <sup>2)</sup>	Gold F <sup>2)</sup>
	Au-flashed	Au-flashed		
Contact style	ct style bifurcated contacts			
Frequency of operation, without load max, 30 operations/s				s/s

Max. DC breaking capacity (contacts Ag, gold flashed)
Curve 1: arc extinguished within contact transit period (limit curve I)

Curve 2: safe breaking, erc extinguished (limit curve II)

Operate / release time approx.



## Electrical endurance

Туре	Load	Operations
Ag, gold-flashed	2.4A, 24VDC, resistive	appr. 1x10 <sup>6</sup>
Ag, gold-flashed	3A, 24VDC, resistive	appr. 0.3x10 <sup>6</sup>
Ag, gold-flashed	1.35A, 30VDC, resistive	appr. 6x10 <sup>6</sup>
Ag, gold-flashed	0.85A, 40VDC, resistive	appr. 2x10 <sup>7</sup>
Ag, gold-flashed	0.36A, 60VDC, resistive	appr. 8x10 <sup>7</sup>
Ag, gold-flashed	0.21A, 110VDC, rersitive	appr. 10x10 <sup>7</sup>
Ag, gold-flashed	2.4A, 24VDC, resistive+100µH3)	appr. 1x10 <sup>6</sup>
Ag, gold-flashed	0.6A, 60VDC, resistive+100µH3)	appr. 10x10 <sup>6</sup>
Ag, gold-flashed	0.24A, 110VDC, resistive+100µH3)	40x10 <sup>6</sup>
	•	



Contact Data (continued)	
Mechanical endurance	aaprox. 108 operations
1) The example of 0 A few means 45 at 100/ are times	

- 1) The current of 3 A for max 4s at 10% on-time.
- 2) Gold F on request only
- 3) Self inductance in accordance with IEC 255-0-20

Coil Data	
Magnetic system	neutral, monostable
Coil voltage range	5 to 60VDC
Max. coil temperature	110°C
Thermal resistance	35K/W

### Coil versions, monostable

Coil	Rated	Operate	Limiting	Coil	Rated coil
code	voltage	voltage	Voltage	resistance	power
	J	4/6 pole	J		•
	VDC	VDC	VDC	$\Omega \pm 10\%^{4)}$	mW
032	5	3.3/4.0	10.8	38	658
012	6	3.9/4.6	12.4	50	720
017	12	7.8/9.5	24.0	185	778
021	24	15.5/18.5	47.0	730	789
026	48	32/37	88.0	27004)	853
014	60	38/45	109.0	41004)	878

4) Coil resistance ±15%

All figures are given for coil without pre-energization, at ambient temperature  $\pm 23^{\circ}\text{C}$ 

The operating voltage limits  $U_{l}$  and  $U_{ll}$  depend on temperature according to the following formula:

 $U_{l tamb} = K_l * U_l 20$ °C,  $U_{ll tu} = K_{ll} * U_{ll} 20$ °C;  $t_{amb} = ambient temperature$ ,

 $U_{l tamb}$  = minimum voltage at ambient temperature,

U <sub>II tamb</sub> =	= maximum \	oltage at	ambient ten	nperature, k	and k <sub>ll</sub> are	factors.
t <sub>amb</sub>	20°C	30°C	40°C	50°C	60°C	70°C
$k_l$	1	1.04	1.085	1.13	1.17	1.21
$k_{II}$	1	0.93	0.86	0.79	0.7	0.6

msu	liation i	Data
Initial	dielectric	strend

nitial dielectric strength	
between coil and frame	$500V_{rms}$
between contact and contact	1000V <sub>rms</sub>
between contact and frame	1000V <sub>rms</sub>
between contact and coil	1000V <sub>rms</sub>



## AXICOM



## Card SN Relay V23030 (Continued)

### **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature -40 to +70°C

Category of environmental protection

IEC 61810 RT I - dust protected,

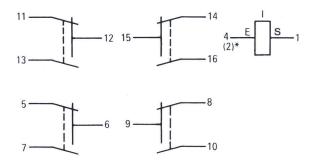
RT III - immersion cleanable

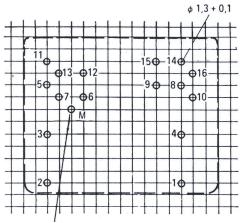
	TTT III IITIITICI SIOTI CICALIADIC
Degree of protection, IEC 60529	IP30, IP67
Terminal type	PCB-THT
Weight	
V23030-Axxx	approx. 12g
V23030-Cxxx	approx. 30g
V23030-Hxxx	approx. 25g
V23030-Jxxx	approx. 30g
Ultrasonic cleaning	not recommended
Packaging unit	5 pcs.

### PCB layout / terminal assignment

Bottom view on solder pins

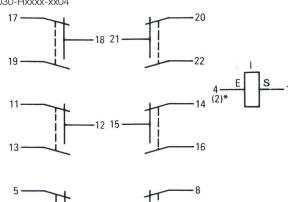
4 form C (4 CO) contacts V23030-Axxxx-xx04 V23030-Hxxxx-xx04

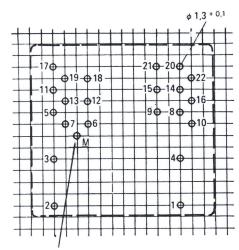




Hole M required only for relays with earth connection.

6 form C (6 CO) contacts V23030-Axxxx-xx04 V23030-Hxxxx-xx04





Hole M required only for relays with earth connection.

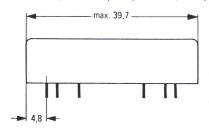


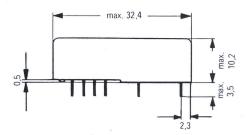


## Card SN Relay V23030 (Continued)

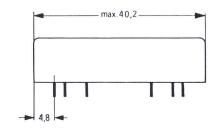
#### **Dimensions**

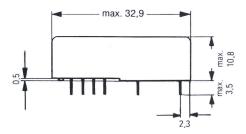
V23030-Axxx, 4 form C (4 CO) contacts, dust protected



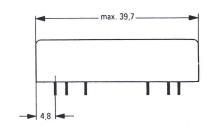


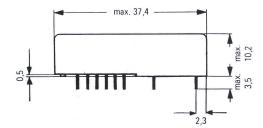
V23030-Hxxx, 4 form C (4 CO) contacts, immersion cleanable



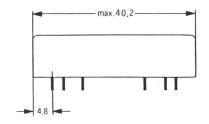


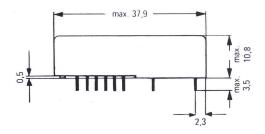
V23030-Cxxx, 6 form C (6 CO) contacts, dust protected





V23030-Jxxx, 6 form C (6 CO) contacts, immersion cleanable

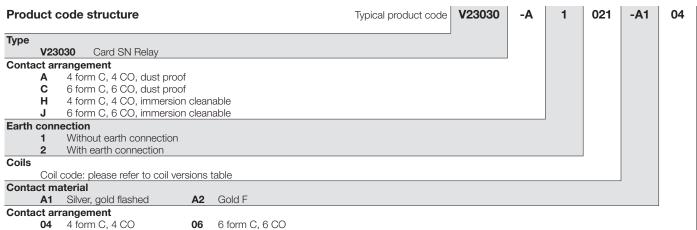








## Card SN Relay V23030 (Continued)



Other types on request

Product code	Version	Coil	Arrangement	Enclosure	Part number		
V23030-A1xxx, 4 pole	, without earth connectio	n, dust protected					
V23030-A1017-A104	pole, without earth conn.	12VDC	4 form C (4 CO)	Dust protected	3-1393801-6		
V23030-A1021-A104	pole, without earth conn.	24VDC	4 form C (4 CO)	Dust protected	3-1393801-8		
V23030-A1026-A104	1 pole, without earth conn.	48VDC	4 form C (4 CO)	Dust protected	4-1393801-1		
V23030-A2xxx, 4 pole	, with earth connection, o	dust protected		· ·			
V23030-A2012-A104	4 pole, with earth conn.	6VDC	4 form C (4 CO)	Dust protected	4-1393801-4		
V23030-A2017-A104	4 pole, with earth conn.	12VDC	4 form C (4 CO)	Dust protected	4-1393801-8		
V23030-A2017-A204	4 pole, with earth conn.	12VDC	4 form C (4 CO)	Dust protected	4-1393801-9		
V23030-A2021-A104	4 pole, with earth conn.	24VDC	4 form C (4 CO)	Dust protected	5-1393801-0		
V23030-A2026-A104	4 pole, with earth conn.	48VDC	4 form C (4 CO)	Dust protected	5-1393801-2		
V23030-A2014-A104	4 pole, with earth conn.	60VDC	4 form C (4 CO)	Dust protected	4-1393801-6		
V23030-C1xxx, 6 pole, without earth connection, dust protected							
V23030-C1017-A104	pole, without earth conn.	12VDC	6 form C (6 CO)	Dust protected	6-1393801-2		
V23030-C1021-A104	pole, without earth conn.	24VDC	6 form C (6 CO)	Dust protected	6-1393801-3		
V23030-C1021-A204	pole, without earth conn.	24VDC	6 form C (6 CO)	Dust protected	6-1393801-4		
V23030-C1026-A104	6 pole, without earth conn.	48VDC	6 form C (6 CO)	Dust protected	6-1393801-7		
V23030-C2xxx, 6 pole	, with earth connection, o	dust protected					
V23030-C2012-A104	6 pole, with earth conn.	6VDC	6 form C (6 CO)	Dust protected	6-1393801-9		
V23030-C2017-A104	6 pole, with earth conn.	12VDC	6 form C (6 CO)	Dust protected	7-1393801-1		
V23030-C2017-A204	6 pole, with earth conn.	12VDC	6 form C (6 CO)	Dust protected	7-1393801-2		
V23030-C2021-A104	6 pole, with earth conn.	24VDC	6 form C (6 CO)	Dust protected	7-1393801-3		
V23030-C2014-A104	6 pole, with earth conn.	60VDC	6 form C (6 CO)	Dust protected	7-1393801-0		

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