



- 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_{rms} or 6kV_{rms}

Typical applications

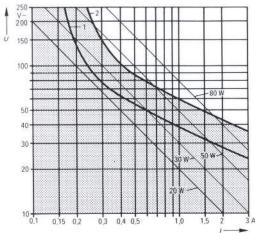
measuring and control systems, alarm and security equipment, road traffic and railway signaling systems

Contact Data	A104	A106
Contact arrangement	4 form C,	6 form C,
	(4 CO)	(6 CO)
Max. switching voltage	250VDC	250VDC
	250VAC	250VAC
Limiting continuous current		
≤50°C ambient	2A	2A
≤75°C ambient	1A	1A
Limiting making/breaking current		
	3A ¹⁾	3A ¹⁾
Contact material	Ag,	Ag,
	Au-flashed	Au-flashed
Contact style	bifurca	ated contacts
Frequency of operation, without load	l max. 3	0 operations/s
Operate / release time approx.		8/2ms

Max. DC breaking capacity (contacts Ag)

Curve 1: arc extinguished within contact transit period (limit curve I)

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



Electrical endurance

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



Contact Data (continued)	
Mechanical endurance	aaprox. 108 operations
1) The expressed of 0 A few section 4 at 100/ are times	

1) The current of 3 A for max 4s at 10% on-time

2) 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

0011 1010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	otabio			
Coil	Rated	Operate	Limiting	Coil	Rated coil
code	voltage	voltage	Voltage	resistance	power
		4/6 pole			
	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	2700 ⁴⁾	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 +23°C

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

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

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

 $U_{ll tamb}$ = maximum voltage at ambient temperature, k_l and k_{ll} are factors. 20°C 50°C 60°C 70°C 30°C tamb 1.085 1.17 1.04 1.13 1.21 0.93 0.86 0.7 0.79 0.6 k_{II}

Insulation Data	
Initial dielectric strength	
between coil and frame	$500V_{rms}$
between contact and contact	$1000V_{rms}$
between contact and frame	$1000V_{rms}$
between contact and coil	1000V _{rms}

Other Data







Card SN Relay V23030 (Continued)

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

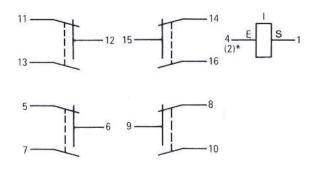
IEC 61810 RT I - dust protected, RT III - immersion cleanable

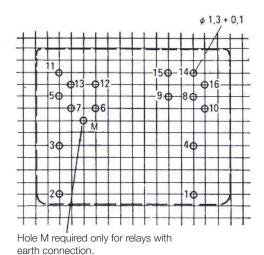
	TTT III IITIITICI GIOGI I GIOGI IGDIC
Degree of protection, IEC 60529	IP30, IP67
Terminal type	PCB-THT
Weight	
V23030-Axxx	approx. 12g
V23030-Cxxx	approx. 30g
V23030-Hxxx	approx. 25g
V23030-Jxxx	approx. 30g
Ultrasonic cleaning	not recommended
Packaging unit	5 pcs.

PCB layout / terminal assignment

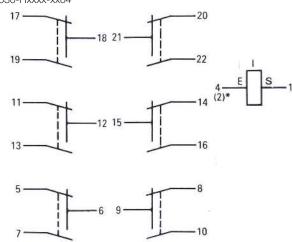
Bottom view on solder pins

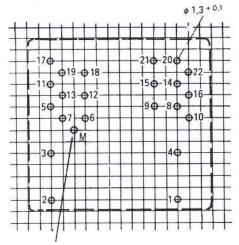
4 form C (4 CO) contacts V23030-Axxxx-xx04 V23030-Hxxxx-xx04





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





Hole M required only for relays with earth connection.

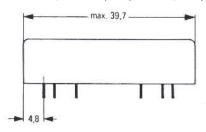


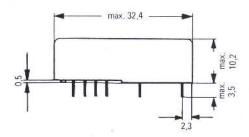


Card SN Relay V23030 (Continued)

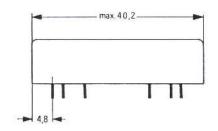
Dimensions

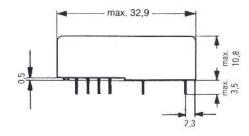
V23030-Axxx, 4 form C (4 CO) contacts, dust protected



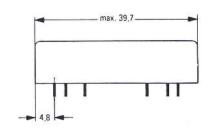


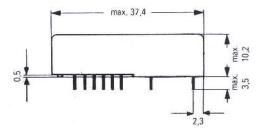
V23030-Hxxx, 4 form C (4 CO) contacts, immersion cleanable



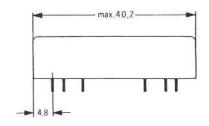


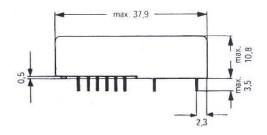
V23030-Cxxx, 6 form C (6 CO) contacts, dust protected





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





Datasheets and product data is subject to the

terms of the disclaimer and all chapters of

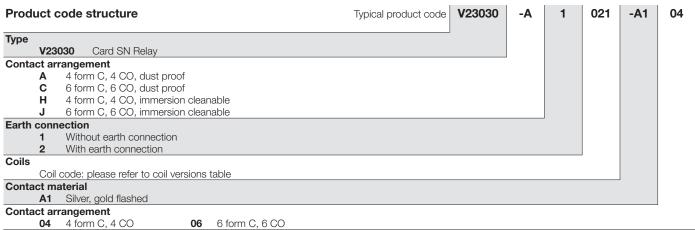
the 'Definitions' section, available at

http://relays.te.com/definitions





Card SN Relay V23030 (Continued)



Other types on request

Product code	Version	Coil	Arrangement	Enclosure	Part number
V23030-A1xxx, 4 pol	e, without earth connecti	on, dust protected			
V23030-A1017-A104	4 pole, without earth conn.	12VDC	4 form C (4 CO)	Dust protected	3-1393801-6
V23030-A1021-A104	4 pole, without earth conn.	24VDC	4 form C (4 CO)	Dust protected	3-1393801-8
V23030-A1026-A104	4 pole, without earth conn.	48VDC	4 form C (4 CO)	Dust protected	4-1393801-1
V23030-A2xxx, 4 pol	e, with earth connection,	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-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
/23030-C1xxx, 6 pole,	, without earth connection	n, dust protected			
V23030-C1017-A104	6 pole, without earth conn.	12VDC	6 form C (6 CO)	Dust protected	6-1393801-2
V23030-C1021-A104	6 pole, without earth conn.	24VDC	6 form C (6 CO)	Dust protected	6-1393801-3
V23030-C1026-A104	6 pole, without earth conn.	48VDC	6 form C (6 CO)	Dust protected	6-1393801-7
				·	
/23030-C2xxx, 6 pole,	, with earth connection, d	ust 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-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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