

Card SN Relay V23030

- 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}

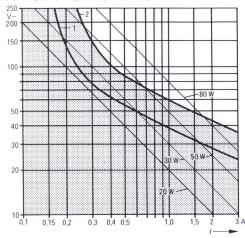
Typical applications

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

Contact Data	A104	A106	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 ¹⁾	3A ¹⁾	0.2A	0.2A		
Contact material	Ag,	Ag,	Gold F ²⁾	Gold F ²⁾		
	Au-flashed	Au-flashed				
Contact style bifurcated contacts				ts		
Frequency of operation, without load max. 30 operations/s						
Operate / release time a	Operate / release time approx. 8/2ms					

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)



Electrical endurance

Туре	Load	Operations
Ag, gold-flashed	2.4A, 24VDC, resistive	appr. 1x106
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
Aq, gold-flashed	0.24A, 110VDC, resistive+100µH3)	40x10 ⁶

Contact Data (continued)

Mechanical endurance aaprox. 108 operations

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
		4/6 pole			
	VDC	VDC	VDC	Ω±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 resi	stance +15%				

All figures are given for coil without pre-energization, at ambient temperature +23°C The operating voltage limits U_I and U_{II} depend on temperature according to the following formula:

 $U_{I tamb} = k_I^* U_I 20^{\circ}$ C, $U_{II tu} = k_{II}^* U_{II} 20^{\circ}$ C; $t_{amb} = ambient temperature,$

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

U _{II tamb} =	= maximum v	voltage at a	ambient ten	nperature, k	and k _{ll} are	factors.
t _{amb}	20°C	30°C	40°C	50°C	60°C	70°C
kı	1	1.04	1.085	1.13	1.17	1.21
k _{ll}	1	0.93	0.86	0.79	0.7	0.6
-						

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

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.

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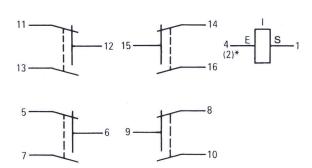
Card SN Relay V23030 (Continued)

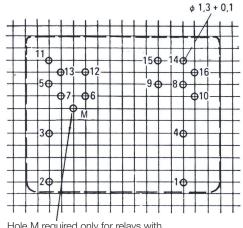
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conte				
refer to the Product Compliance Support Center				
www.te.com	/customersupport/rohssupportcenter			
Ambient temperature	-40 to +70°C			
Category of environmental protection				
IEC 61810	RT I - dust protected,			
	RT III - immersion cleanable			
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

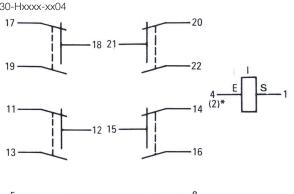
4 form C (4 CO) contacts V23030-Axxxx-xx04 V23030-Hxxxx-xx04

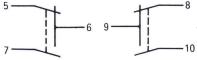


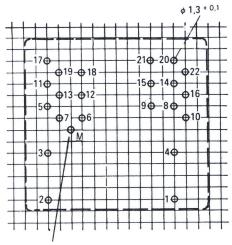


Hole M required only for relays with earth connection.

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







Hole M required only for relays with earth connection.

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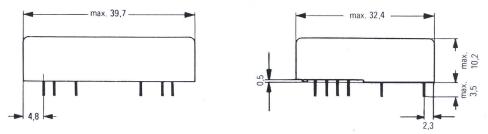
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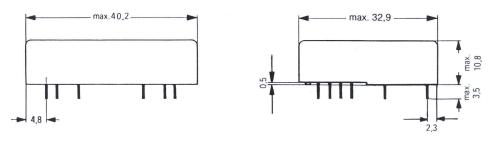
Card SN Relay V23030 (Continued)

Dimensions

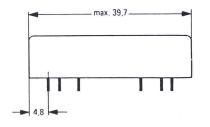
V23030-Axxx, 4 form C (4 CO) contacts, dust protected

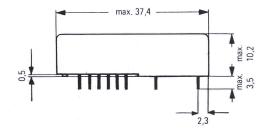


V23030-Hxxx, 4 form C (4 CO) contacts, immersion cleanable

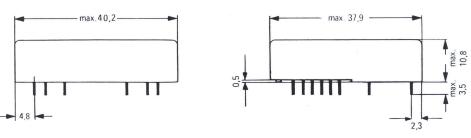


V23030-Cxxx, 6 form C (6 CO) contacts, dust protected





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



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Card SN Relay V23030 (Continued)

Product code structure	Typical product code V23030	-A	1	021	-A1	04
Туре						
V23030 Card SN Relay						
Contact arrangement						
A 4 form C, 4 CO, dust proof						
C 6 form C, 6 CO, dust proof						
H 4 form C, 4 CO, immersion cleanable						
J 6 form C, 6 CO, immersion cleanable						
Earth connection			_			
1 Without earth connection						
2 With earth connection						
Coils						
Coil code: please refer to coil versions table						
Contact material					1	
A1 Silver, gold flashed A2 Gold F						
Contact arrangement						'
04 4 form C, 4 CO 06 6 form C, 6 CO						
Other types on request						

Other types on request

Product code	Version	Coil	Arrangement	Enclosure	Part number
V23030-A1xxx, 4 pol	e, without earth connection	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, 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 pol	e, without earth connection	on, 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-C1021-A204	6 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 pol	e, 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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