Power PCB Relay Card E

- **1 pole 8A, 1 form C (CO) or 1 form A (NO) contact**
- **4kV coil-contact**
- **Vertical and horizontal version**
- **Wash tight**
- **RoHS compliant (Directive 2011/65/EC)**



Typical applications
I/O modules, heating control, timers

Approvals

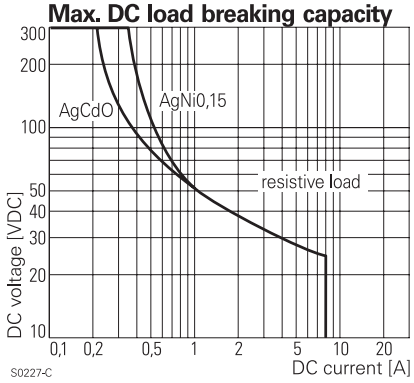
VDE Cert. No. 5146 (not for AgSnO version), UL E214025
Technical data of approved types on request

Contact Data	8A	5A	bifurcated
Contact arrangement	1 form C (CO) or 1 form A (NO)		
Rated voltage		250VAC	
Max. switching voltage		400VAC	
Rated current	8A	5A	5A
Limiting making current, max 4 s, duty factor 10%	15A	-	-
Breaking capacity max.	2000VA	1250VA	1250VA
Contact material	AgSnO, AgNi20	AgNi0.15	AgNi0.15
Contact style	single contact	single contact	bifurcated contact
Frequency of operation, with/without load		360/72000h^{-1}	
Operate/release time typ.		7/3ms	
Bounce time typ., form A/form B		0.5/3ms	

Contact ratings

Type	Contact	Load	Cycles
IEC61810			
AgCdO	C (CO)	8A, 250VAC, resistive, 70°C	20x10^3
AgNi20	C (CO)	8A, 250VAC, resistive 70°C	20x10^3
AgNi20	A (NO)	8A, 250VAC, resistive, 70°C	30x10^3
AgNi0.15	A (NO)	5A, 250VAC, resistive, 70°C	20x10^3
UL 61810-1 (former UL 508)			
Series A101:	C (CO)	8A, 250VAC, general purpose, 70°C	6x10^3
Series A201:	C (CO)	8A, 250VAC, general purpose, 70°C	6x10^3
Series A901:	C (CO)	10A, 250VAC, general purpose, 70°C	6x10^3
Mechanical endurance		>20x10^6 operations	

Max. DC load breaking capacity



Coil Data

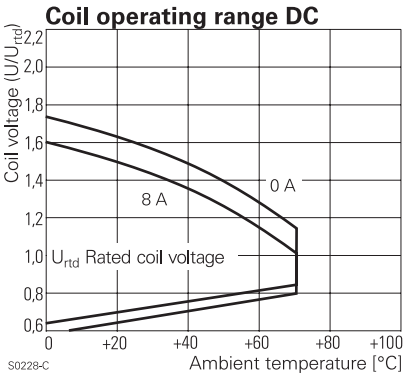
Coil voltage range	6 to 110VDC

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±15%[1]	Rated coil power mW
008	5	3.5	0.5	46[1]	543
001	6	4.2	0.6	80[1]	450
002	12	8.3	1.2	330[1]	436
006	24	16.8	2.4	1200	480
013	48	33.6	4.8	4700	490
023	60	42.0	6.0	7200	500
028	110	77.0	11.0	23400	517

1) Coil resistance ±10%.
All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.

Coil operating range DC



Insulation Data

Initial dielectric strength	
between open contacts	1000V$_{rms}$
between contact and coil	4000V$_{rms}$
Clearance/creepage	
between contact and coil	≥4/4mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI225V

Other Data

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Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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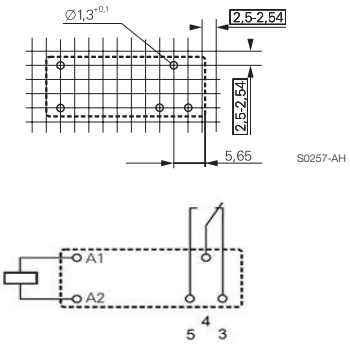
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Power PCB Relay Card E (Continued)

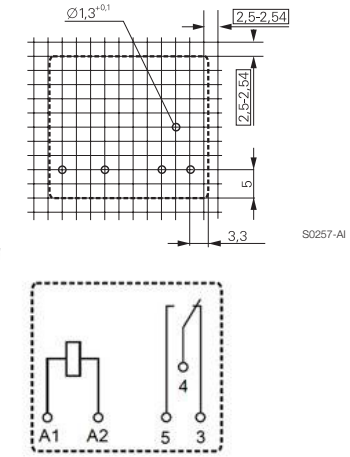
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Ambient temperature	-40 to +70°C
Category of environmental protection IEC 61810	RTIII - wash tight
Terminal type	PCB-THT
Mounting distance	5mm
Weight	14g
Resistance to soldering heat THT IEC 60068-2-20	260°C/5s
Packaging/unit	tube/20 pcs., box/400 pcs.

PCB layout / terminal assignment
Bottom view on solder pins

Vertical version

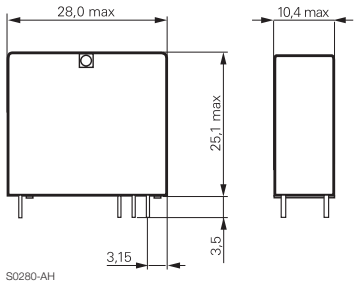


Horizontal version

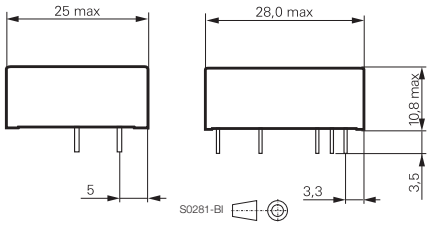


Dimensions

Vertical version



Horizontal version



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Power PCB Relay Card E (Continued)

Product code structure Typical product code **V23057 -A 0 006 -A 1 01**

Type
V23057 Power PCB Relay Card E

Version
A Horizontal
B Vertical

Version
0 Standard (nature white) **3** nature white (formerlyorange [3])

Coil
Coil code: please refer to coil versions table

Contact set
A Single contact **B** Bifurcated contact

Contact material
1 AgNi 0.15
2 AgNi 20
4 AgCdO [2]
9 AgSnO

Contact configuration
01 1 form C contact (1 CO)
02 1 form A contact (1 NO)

2) AgCdO contacts are discontinued (see PCN E-17-015248)
3) Relay color changed from orange to nature white (see PCN P-13-009534)

Product code	Version	Contact arrrangement	Contact material	Coil	Approval	Part Number
V23057-A0002-B101	Horizontal	form C (CO) bif. contact	AgNi 0.15	12VDC	VDE, UL	1-1393215-1
V23057-A0006-B101		form C (CO) bif. contact	AgNi 0.15	24VDC	VDE, UL	3-1393215-0
V23057-A0001-A101		1 form C (CO) contact	AgNi 0.15	6VDC	VDE, UL	1393215-1
V23057-A0002-A101		1 form C (CO) contact	AgNi 0.15	12VDC	VDE, UL	1393215-4
V23057-A0002-A102		1 form A (NO) contact	AgNi 0.15	12VDC	VDE	1393215-5
V23057-A0006-A101		1 form C (CO) contact	AgNi 0.15	24VDC	VDE, UL	2-1393215-1
V23057-A0006-A102		1 form A (NO) contact	AgNi 0.15	24VDC	VDE	1415546-6
V23057-A0008-A101		1 form C (CO) contact	AgNi 0.15	5VDC	VDE, UL	3-1393215-4
V23057-A0013-A101		1 form C (CO) contact	AgNi 0.15	48VDC	VDE, UL	3-1393215-8
V23057-A0023-A101		1 form C (CO) contact	AgNi 0.15	60VDC	VDE, UL	5-1393215-5
V23057-A0028-A101		1 form C (CO) contact	AgNi 0.15	110VDC	VDE, UL	5-1393215-9
V23057-B0001-A101	Vertical	1 form C (CO) contact	AgNi 0.15	6VDC	VDE, UL	6-1393215-6
V23057-B0002-A101		1 form C (CO) contact	AgNi 0.15	12VDC	VDE, UL	6-1393215-7
V23057-B0002-A102		1 form A (NO) contact	AgNi 0.15	12VDC	VDE	1415546-8
V23057-B0006-A101		1 form C (CO) contact	AgNi 0.15	24VDC	VDE, UL	7-1393215-5
V23057-B0006-A102		1 form A (NO) contact	AgNi 0.15	24VDC	VDE	7-1393215-9
V23057-B0013-A101		1 form C (CO) contact	AgNi 0.15	48VDC	VDE, UL	9-1393215-4
V23057-B0023-A101		1 form C (CO) contact	AgNi 0.15	60VDC	VDE, UL	1415546-5
V23057-A0002-A201	Horizontal	1 form C (CO) contact	AgNi20	12VDC	VDE, UL	1393215-6
V23057-A0006-A201		1 form C (CO) contact	AgNi20	24VDC	VDE, UL	2-1393215-3
V23057-B0002-A201	Vertical	1 form C (CO) contact	AgNi20	12VDC	VDE, UL	6-1393215-9
V23057-B0006-A201		1 form C (CO) contact	AgNi20	24VDC	VDE, UL	8-1393215-1
V23057-B0006-A202		1 form A (NO) contact	AgNi20	24VDC	VDE	8-1393215-3
V23057-B0023-A201		1 form C (CO) contact	AgNi20	60VDC	VDE, UL	2-1415543-8
V23057-B0028-A201		1 form C (CO) contact	AgNi20	110VDC	VDE, UL	2-1415543-9
V23057-A0001-A901	Horizontal	1 form C (CO) contact	AgSnO	6VDC	UL	2-1415372-1
V23057-A0002-A901		1 form C (CO) contact	AgSnO	12VDC	UL	1-1393215-0
V23057-A0006-A901		1 form C (CO) contact	AgSnO	24VDC	UL	2-1393215-8
V23057-A0013-A901		1 form C (CO) contact	AgSnO	48VDC	UL	4-1393215-2
V23057-B0006-A901	Vertical	1 form C (CO) contact	AgSnO	24VDC	UL	8-1393215-8
V23057-B0023-A901		1 form C (CO) contact	AgSnO	60VDC	UL	1415538-4
V23057-B0028-A901		1 form C (CO) contact	AgSnO	110VDC	UL	1415538-6

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

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3430B2F51RTDF CPF0402B37K4E1 RH73H2A40MKTN 2310537-1 3-1393225-0 CRGCQ2010J3K3
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