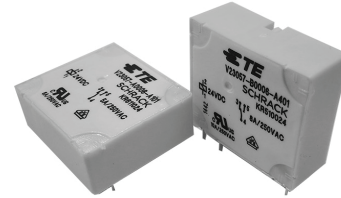## Power PCB Relay Card E

■ **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, 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	AgCdO, 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	20×10^3
AgNi20	C (CO)	8A, 250VAC, resistive 70°C	20×10^3
AgCdO	A (NO)	8A, 250VAC, resistive, 70°C	20×10^3
AgNi20	A (NO)	8A, 250VAC, resistive, 70°C	30×10^3
AgNi0.15	A (NO)	5A, 250VAC, resistive, 70°C	20×10^3
Mechanical endurance		$>20 \times 10^6$ operations	

Max. DC load breaking capacity
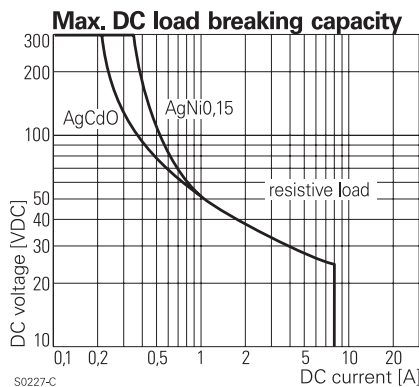
Coil Data

Coil voltage range	6 to 110VDC

### Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 15\%^{1)}$	Rated coil power mW
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.

Coil operating range DC
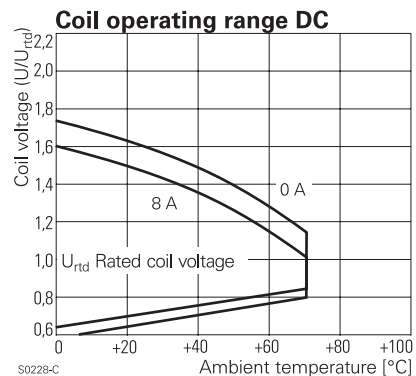
Other coil voltages on request.

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

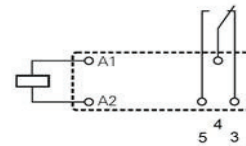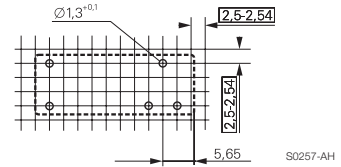## Power PCB Relay Card E (Continued)

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

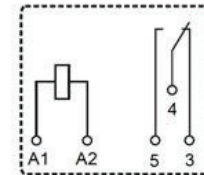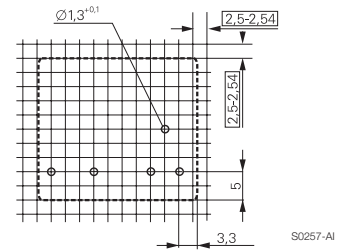|	
Ambient temperature	-40 to +70°C
Category of environmental protection	
IEC 61810	RTIII - wash tight
Terminal type	PCB-THT
Mounting distance	5mm
Weight	14g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging/unit	tube/20 pcs., box/400 pcs.

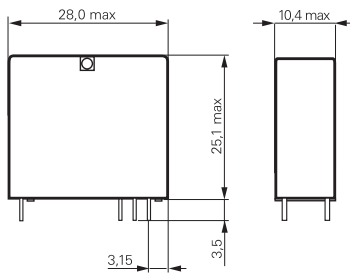### PCB layout / terminal assignment

Bottom view on solder pins

Vertical version

S0257-AH

Horizontal version

S0257-AI

Dimensions

Vertical version

S0280-AH

Horizontal version

S0281-BI

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.

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)

Coil
Coil code: please refer to coil versions table

Contact set
A   Single contact

Contact material
1   AgNi 0.15
2   AgNi 20
4   AgCdO

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

Product code	Version	Contact arrrangement	Contact material	Coil	Part Number
V23057-A0002-A101	Horizontal	1 form C (CO) contact	AgNi 0.15	12VDC	1393215-4
V23057-A0002-A401			AgCdO		1393215-9
V23057-A0006-A101			AgNi 0.15	24VDC	2-1393215-1
V23057-A0006-A201			AgNi 20		2-1393215-3
V23057-A0006-A401			AgCdO		2-1393215-5
V23057-B0001-A101	Vertical		AgNi 0.15	6VDC	6-1393215-6
V23057-B0002-A101				12VDC	6-1393215-7
V23057-B0002-A201			AgNi 20		6-1393215-9
V23057-B0002-A401			AgCdO		7-1393215-1
V23057-B0006-A101			AgNi 0.15	24VDC	7-1393215-5
V23057-B0006-A102		1 form A (NO) contact			7-1393215-9
V23057-B0006-A201		1 form C (CO) contact	AgNi 20		8-1393215-1
V23057-B0006-A401			AgCdO		8-1393215-5
V23057-B0006-A402		1 form A (NO) contact			8-1393215-6
V23057-B0023-A201		1 form C (CO) contact	AgNi 20	60VDC	2-1415543-8

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

Other types on request

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays *category:*

Click to view products by TE Connectivity *manufacturer:*

Other Similar products are found below :

APF30318 JVN1AF-4.5V-F PCN-105D3MHZ 5JO-10000S-SIL 5JO-1000CD-SIL 5JO-400CD-SIL LY2S-AC220/240 LYQ20DC12 6031007G 6131406HQ 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-1423698-4 6-1608051-6 6-1608067-0 6-1616170-6 6-1616248-2 6-1616282-3 6-1616348-2 6-1616349-9 6-1616350-1 6-1616350-8 6-1616358-7 6-1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-1618107-9 6-1618248-4 M83536/1-027M CX-4014 MAHC-5494 MAVCD-5419-6 703XCX-120A 7-1393100-5 7-1393111-7 7-1393767-8 7-1414968-8 7-1419130-3