

**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
- Version with bifurcated contacts
- Wash tight
- RoHS compliant (Directive 2002/95/EC)



F0151-B



Typical applications  
I/O modules, heating control, timers

**Approvals**

VDE REG.-Nr. 5146, cULus 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 <sup>-1</sup>		
Operate/release time typ.	7/3ms		
Bounce time typ., form A/form B	0.5/3ms		

**Contact ratings**

Type	Contact	Load	Cycles
<b>IEC61810</b>			
AgCdO	C (CO)	8A, 250VAC, resistive, 70°C	20x10 <sup>3</sup>
AgNi20	C (CO)	8A, 250VAC, resistive 70°C	20x10 <sup>3</sup>
AgCdO	A (NO)	8A, 250VAC, resistive, 70°C	20x10 <sup>3</sup>
AgNi20	A (NO)	8A, 250VAC, resistive, 70°C	30x10 <sup>3</sup>
AgNi0.15	A (NO)	5A, 250VAC, resistive, 70°C	20x10 <sup>3</sup>

Mechanical endurance >20x10<sup>6</sup> operations

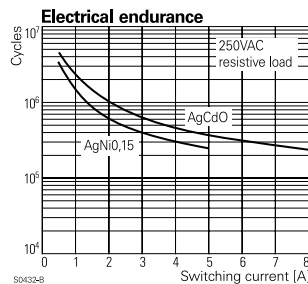
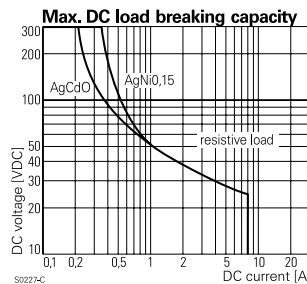
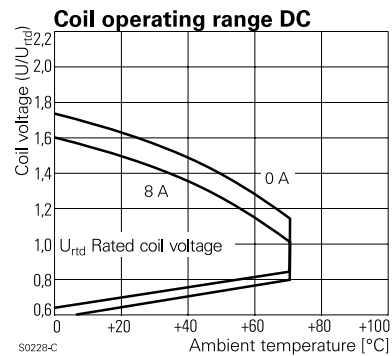
**Coil Data**

Coil voltage range 6 to 60VDC

**Coil versions, DC coil**

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±15% <sup>1)</sup>	Rated coil power mW
001	6	4.0	0.6	80 <sup>1)</sup>	450
002	12	8.0	1.2	330 <sup>1)</sup>	436
006	24	16.0	2.4	1200	480
013	48	32.0	4.8	4700	490
023	60	40.0	6.0	7200	500

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



**Insulation Data**

Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	4000V <sub>rms</sub>
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**

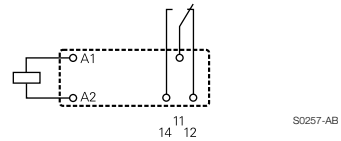
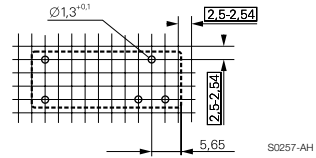
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.tycoelectronics.com/customersupport/rohssupportcenter](http://www.tycoelectronics.com/customersupport/rohssupportcenter)

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

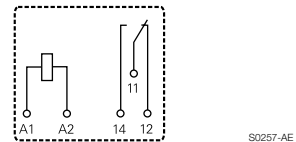
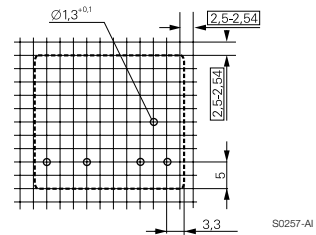
**PCB layout / terminal assignment**

Bottom view on solder pins

Vertical version

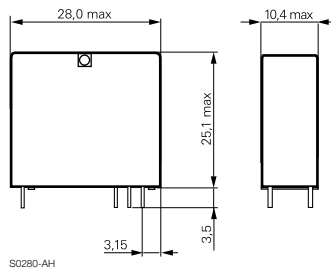


Horizontal version

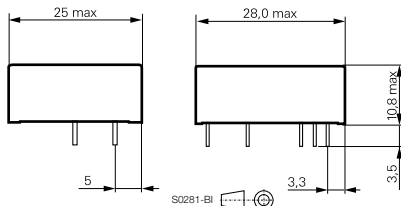


**Dimensions**

Vertical version



Horizontal version



**Power PCB Relay Card E** (Continued)

**Product code structure**

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

<b>Type</b>	V23057 Power PCB Relay Card E	
<b>Version</b>	<b>A</b> Horizontal	<b>B</b> Vertical
<b>Version</b>	<b>0</b> Standard	
<b>Coil</b>	Coil code: please refer to coil versions table	
<b>Contact set</b>	<b>A</b> Single contact	<b>B</b> Bifurcated contact (form C/CO version only)
<b>Contact material</b>	<b>1</b> AgNi 0.15	<b>4</b> AgCdO
	<b>2</b> AgNi 20	
<b>Contact configuration</b>	<b>01</b> 1 form C contact (1 CO)	<b>02</b> 1 form A contact (1 NO)

Product code	Version	Contact arrangement	Contact material	Coil	Part number
V23057-A0002-A101	Horizontal	1 form C (CO) contact	AgNi0.15	12VDC	1393215-4
V23057-A0002-A401			AgCdO		1393215-9
V23057-A0006-A101	Vertical		AgNi0.15	24VDC	2-1393215-1
V23057-A0006-A201			AgNi 20		2-1393215-3
V23057-A0006-A401		AgCdO	2-1393215-5		
V23057-B0001-A101		AgNi0.15	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		AgNi0.15	24VDC	7-1393215-5	
V23057-B0006-A102		1 form A (NO) contact	7-1393215-9		
V23057-B0006-A201		1 form C (CO) contact	8-1393215-1		
V23057-B0006-A401		AgNi 20	8-1393215-5		
V23057-B0006-A402	1 form A (NO) contact	AgCdO	8-1393215-6		
V23057-B3006-A101	1 form C (CO) contact	AgNi0.15	2-1393216-6		
V23057-B3023-A101			60VDC	2-1393216-8	

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