

Miniature Relay PCL

- Small size, 3A, 5A switching capacity
- **■** Meets UL and CSA requirements
- 2 pole and 4 pole contact arrangements
- AC and DC coils with UL Class F (155°C) coil insulation system
- Optional flange mount case
- Plug-in terminals or PCB terminals

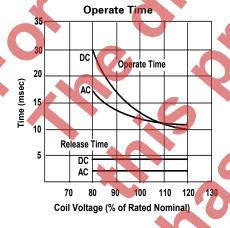
Typical applications

Factory automation, process controls, electrical panels, etc.

Approvals
UL E58304, TUV R50138495, CSA 1017162(LR48471-207),
CQC CQC08001025963

Technical data of approved types on request

Contact Data	2 pole	4 pole
Contact arrangement	2 form A (2NO)	4 form A (4NO)
	2 form C (2CO)	4 form C (4CO)
Rated voltage	250VAC,	24VDC
Rated current	5A	3A
Switching power	1100VA, 120W	660VA, 72W
Contact material	Ag, AgShC	0 ₂ , AgCdO
Min. recommended contact load	100mA 8	at 5VDC
Initial contact resistance	$50 \mathrm{m}\Omega$ at 6	SVDC, 1A
Frequency of operation		
with/without load	30/300	Omin ⁻¹
Operate/release time max.		
AC coil	20/2	0ms
DC coil	15/8	3ms
Electrical endurance	100x10 ³ ops.	at rated load
Contact ratings	5A at 250VAC/2	24VDC resistive
	3A at 250VAC/2	24VDC resistive
Mechanical endurance	100x10	⁰⁶ ops.











Coil Data		
Coil voltage range	6 to	110VDC
	6 to 240V	/AC (50/60Hz)
Max. coil power	110% of	rated power
Max. coil temperature		
AC coil	1	15°C
DC coil	1	05°C
Coil insulation system	according UL c	lass F

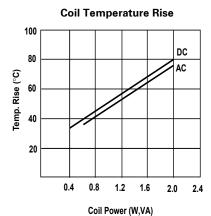
011					
	ons, DC coi				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10 %	mW
01D	6	4.8	0.6	40	900
02D	12	9.6	1.2	160	900
03D	24	19.2	2.4	650	900
04D	48	38.4	4.8	2600	900
05D	100/110	88.0	10.0	11000	1100

All figures are given for coil without pre-energization, at ambient temperature +23°C

Coil versions, AC coil

-	, , , , , , , , , , , , , , , , , , , ,				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VAC	VAC	VAC	Ω±10%	VA
01A	6	4.8	1.8	10	1.4
02A	12	9.6	3.6	40	1.4
03A	24	19.2	7.2	160	1.4
04A	48	38.4	14.4	600	1.4
05A	100	80.0	30.0	2800	1.4
06A	110/120	96.0	33.0	3400	1.4
07A	200	160.0	60.0	11000	1.4
08A	220/240	192.0	66.0	13600	1.4

figures are given for coil without pre-energization, at ambient temperature +23°C, 50 Hz





Miniature Relay PCL (Continued)

Insulation Data	
Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	2000V _{rms}
between adjacent contacts	1500V _{rms}
Initial surge withstand voltage	
between contact and coil	3000V(1.2/50µs)
Initial insulation resistance	1000MΩ at 500VDC

Accessories Miniature Relay PT
and accessories list
Part Number
ail socket with finger protection 1721882-1
ail socket with finger protection 1721884-1
lail socket 1649017-1
lail socket 1649019-1
3

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 -40 to 55°C

Ambient temperature

Category of environmental protection

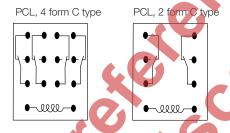
IEC 61810 RTI - dust protected

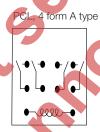
Vibration resistance (functional) 10 to 55Hz, 1.0mm double amplitude Vibration resistance (destructive) 10 to 55Hz, 1.0mm double amplitude

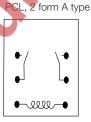
Shock resistance (functional) 10g Shock resistance (destructive) 100g Terminal type plug-in, PCB-THT

Weight approx. 32g Packaging/unit box/25 pcs., carton/500 pcs

Terminal assignment

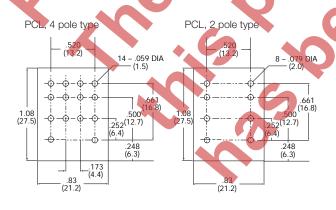






PCB layout

Bottom view on pi

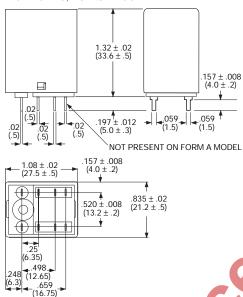




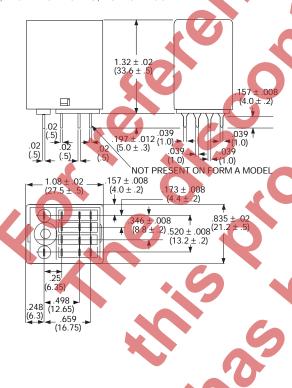
Miniature Relay PCL (Continued)

Dimensions

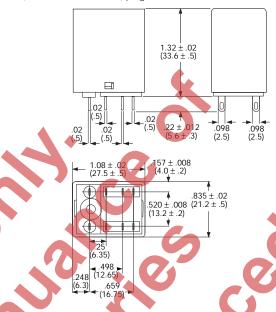
PCL, 2 form A or 2 form C, PCB terminals



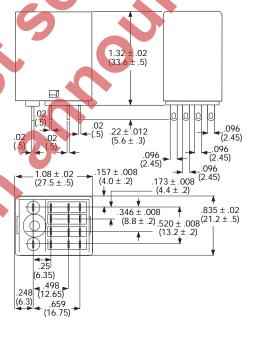
PCL, 4 form A or 4 form C, PCB terminals



PCL, 2 form A or 2 form C, plug-in terminals

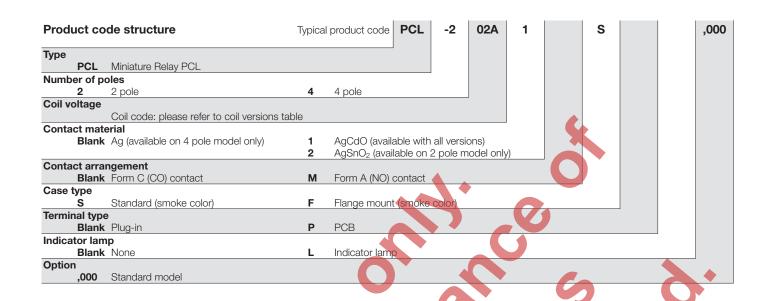


PCL, 4 form A or 4 form O plug-in terminals





Miniature Relay PCL (Continued)



Product Code	Arrangement	Cont. material	Terminal	Coil	Coil voltage	Indicator	Part Number
PCL-203D1S,000	2 Form C	AgCdO	Plug-in	DC coil	24VDC	none	1-1419135-7
PCL-203D1SL,000						LED	1461113-6
PCL-208A1S,000				AC coil	220/240VAC	none	1-1419135-8
PCL-208A1SL,000						LED	1461113-8
PCL-403DS,000	4 Form C	Ag		DC coil	24VDC	none	8-1440002-9
PCL-403DSL,000						LED	1461008-6
PCL-408AS,000				AC coil	220/240VAC	none	9-1440002-3
PCL-408ASL,000						LED	1461008-8

