

Miniature Relay PCLH

- Small size, 10A, 15A switching capacity
- **■** Meets UL and CSA requirements
- 1 pole and 2 pole contact arrangements
- AC and DC coils with UL Class F (155°C) coil insulation system standard
- Optional flange mount case
- **■** Plug-in terminals or PCB terminals



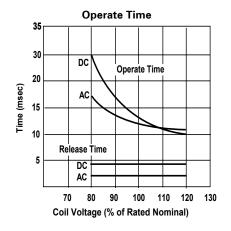
Typical applications

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	2x15A	2x10A	1x15A	
Contact arrangement	2 form A	2 form A	1 form A	
g a r r a a a a a a a a a a a a a a a a	2 NO	2 NO	1 NO	
	or	or	or	
	2 form C	2 form C	1 form C	
	2 CO	2 CO	1 CO	
Rated voltage	120VAC	250VAC	250VAC	
		24VDC	24VDC	
Rated current	15A	10A	15A	
Switching power	3168VA	3168VA	3300VA	
	240W	240W	360W	
Contact material	t material Ag, AgSnO, AgCdO			
Min. recommended contact load	100mA at 5VDC			
Initial contact resistance	50mΩ at 6VDC, 1A			
Frequency of operation				
with/without load	30	0min ⁻¹ /300mir	1 ⁻¹	
Operate/release time max.				
AC coil		20/20ms		
DC coil		15/8ms		
Electrical endurance	100x1	03 ops. at rate	ed load	
Contact ratings				
2 pole type	15A a	at 120VAC res	sistive	
	10A at 250VAC/24VDC resistive			
1 pole type	15A at 250VAC/24VDC resistive			
Mechanical endurance	100x10 ⁶ ops.			



Coil Data	
Coil voltage range	6 to 110VDC
	6 to 240VAC (50/60Hz)
Max. coil power	110% of rated power
Max. coil temperature	
AC coil	115°C
DC coil	105°C
Coil insulation system according UL	class F

A (P (ac)

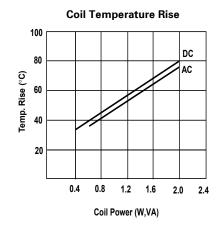
Coil vers	sions, DC coi	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10 %	mW
01D	6	4.8	0.6	40	900
02D	12	9.6	1.2	160	900
03D	24	19.2	2.4	650	900
04D	48	38.4	4.8	2600	900
05D	100/110	88.0	10.0	11000	1100

All figures are given for coil without preenergization, 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

All figures are given for coil without preenergization, at ambient temperature +23°C, 50 Hz



04-2011, Rev. 0411



Miniature Relay PCLH (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

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 enviromental 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

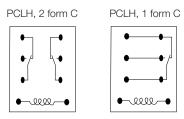
Shock resistance (functional) 10g

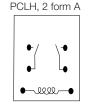
Shock resistance (destructive) 100g
Terminal type plug-in
PCB-THT

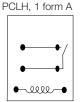
Weightapprox. 32gPackaging/unitbox/25, carton/500

Accessories		
For details see dat	tasheet K10 series	sockets
Accessories		
Product Code	Description	Part Number
PCLH-2F-E,000	2 pole DIN rail socket, quick connec	ct
	terminals, with finger protection	1721883-1

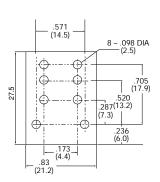
Terminal assignment





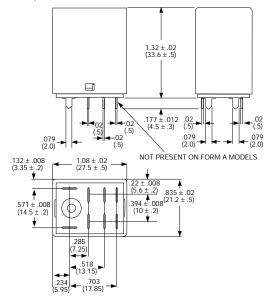


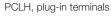
PCB layoutBottom view on pins

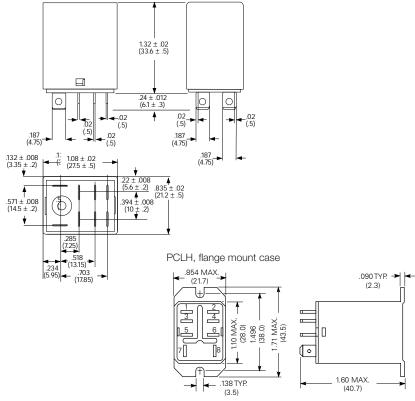


Dimensions



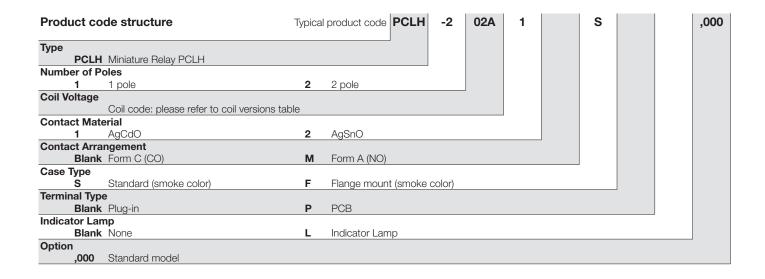








Miniature Relay PCLH (Continued)



Product Code	Arrangement	Cont. material	Terminal	Coil	Coil voltage	Indicator	Part Number
PCLH-203D1S,000	2 Form C	AgCdO	Plug-in	DC coil	24VDC	none	7-1440007-1
PCLH-203D1SL,000						LED	1649693-1
PCLH-208A1S,000				AC coil	220/240VAC	none	7-1440007-5
PCLH-208A1SL,000						LED	1461542-3

the 'Definitions' section, available at

http://relays.te.com/definitions