

KUL Series Latching Panel Plug-in Relay

- Magnetic latching relay
- Single or dual wound DC coils or single wound AC coils
- 1, 2, and 3 pole Form C contact arrangement
- Reset occurs by reversing polarity in a single coil relay or by energizing the reset winding in dual coil relays
- Various mounting and socket styles

Typical applications

Alarm systems, machine tools, battery chargers, process and power controls, pressure washers, paving equipment

Approval	s		
UL E22575;	CSA LR15734		
Technical data	of approved types on reque	est	
Contact) oto		
Contact I		auma C (CO) O fauma (2 (CO) 2 favor C (CO)
Contact arra			C (CO), 3 form C (CO) VAC
Rated voltag			
Rated curre)A
Contact ma		Ag 100mA 10VDC	AgCdO
	mended contact load	100mA, 12VDC	300mA, 12VDC
Frequency of		360 ops./hour	
Operate/rei	ease time max.	25/25ms	
Contact ra	_*		0 1
Туре	Load		Cycles
UL 508			
Ag			
	5A, 240VAC		100x10 ³
	1/6HP, 120VAC		
	1/3HP, 240VAC		
	0.5A, 120VDC		
	2.5A, 120VAC, tun	ngsten	
AgCdO			
	10A, 250VAC		100x10 ³
	1/3HP, 120VAC		
	1/2HP, 250VAC		
	5A, 120VAC, tungs	sten	

Coil Data			
Coil voltage range	12 to 110VDC (single and dual coil)		
	24 to 240VAC (single coil)		
	24 to 120VAC (dual coil)		
Coil insulation system according LII	Class B		

0.5A, 125VDC 10A, 28VDC

Mechanical endurance

10FLA, 30LRA, 125VAC 5FLA, 15LRA, 250VAC

125VA, pilot duty, 125/250VAC







Coil vers	sions, DC coil	1)		
Coil Rated		Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDC	VDC	Ω±10%	W
Single c	oil			
12	12	9.0	120	1.2
24	24	18.0	472	1.25
48	48	36.0	1800	1.3
110	110	82.5	10000	1.25
Dual coi	I 2)			
12	12	9.0	90	1.6
24	24	18.0	350	1.65
48	48	36.0	1400	1.65
110	110	82.5	7400	1.65

1) Latch and reset coil voltages and resistances are the same (unlike coils on request). 2) Dual coil available only with 1 or 2 form C contacts.

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

Coil versions, AC coil 3)							
Coil	Rated	Operate	Latch coil	Reset coil	Reset coil		
code	voltage	voltage	resistance	resistance	resistor		
	VAC	VAC	$\Omega \pm 15\%$	$\Omega \pm 15\%$	Ω		
Single c	oil						
24	24	20.4	176	_	680		
120	120	102.0	3700	_	15000		
240	240	204.0	179000	_	68000		
Dual coi							
24	24	20.4	100	250	_		
120	120	102.0	2525	2200	5600		
0) 40 "	0,40 " " 10 5						

3) AC coils use diodes. Diodes and resistors included inside relay with 1 and 2 Form C contacts. For 3 Form C relay, the customer must furnish and wire diodes and resistors externally (1N4007 is recommended diode).

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

Insulation Data	
Initial dielectric strength	
between open contacts	500V _{rms}
between contact and coil	1500V _{rms}
between adjacent contacts	1500V _{rms}
Initial insulation resistance	
between insulated elements	100ΜΩ

10x106 ops.

100x10³



KUL Series Latching Panel Plug-in Relay (Continued)

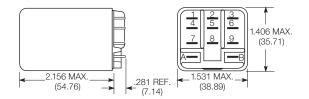
Other Data			
Material compliance:	EU RoHS/ELV, China RoHS, REACH, Halogen content		
	refer to the Product Compliance Support Center at		
	www.te.com/customersupport/rohssupportcenter		
Ambient temperature	9		
DC coil	Single coil: -45°C to 70°C		
	Dual coil: -45°C to 50°C		
AC coil	Single coil: -45°C to 70°C		
Category of environn	nental protection		
IEC 61810	RTI - dust protected		
Terminal type	Quick connects (QC) .187		
Weight	96g		
Packaging/unit	tray/25 pcs., box/150pcs.		

Accessories				
For details see datasheet		Sockets and Accessories, KUP Relays		
Product Code	Description			
27E893	DIN socket (use 20C318 clip)			
27E121	Track mount socket (use 20C314 clips)			
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)			
27E046	Chassis mount/P0	CB socket (use 20C254 clip)		
27E067	Chassis mount/qu	uick connect socket (use 20C254 clip)		
27E396	Snap-in/quick cor	nnect socket (use 20C254 clip)		

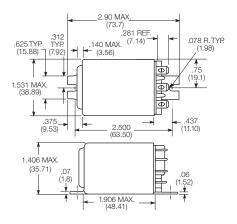
Dimensions

Other Data

Plain case

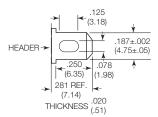


Bracket mount case



Terminal dimensions

4.75mm (.187) quick connect

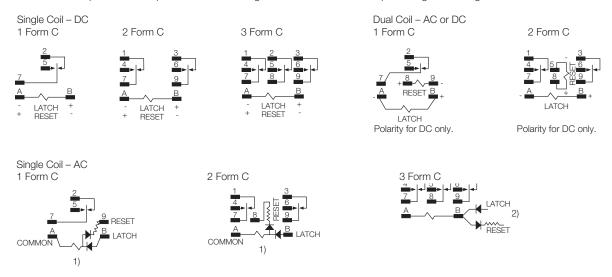




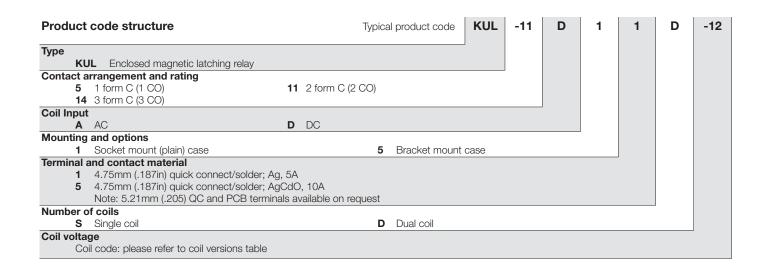
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Terminal assignment

Bottom view on pins - Contact positions shown in diagrams is with the "RESET" input having been energized last.



- 1) Do not connect any low impedance loads from terminal B to A.
- 2) Resistor and diodes connected by customer. See Coil Data Chart for resistor value. Recommended using 1N4007 diode.



Product Code	Arrangement	Material	Coil	Case Style	Terminals	Part Number
KUL-5A15S-120	1 Form C, 1 CO	AgCdO	120 VAC	Plain case	Plug-in	1393116-4
KUL-11A15S-24	2 Form C, 2 CO		24 VAC			2-1393115-7
KUL-11A15S-120			120 VAC			2-1393115-6
KUL-11D15D-12			12 VDC			3-1393115-1
KUL-11D15D-24			24 VDC			3-1393115-2
KUL-11D15D-48			48 VDC			3-1393115-3
KUL-11D15S-12			12 VDC			3-1393115-4
KUL-11D15S-24			24 VDC			3-1393115-5