

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

Approvals			
UL E22575; CSA LR15734			
Technical data of approved types on red	quest		
Contact Data			
Contact arrangement	1 form C (CO), 2 form (C (CO), 3 form C (CO)	
Rated voltage 240VAC			
Rated current	10A		
Contact material	Ag	AgCdO	
Min. recommended contact load	100mA, 12VDC	300mA, 12VDC	
Frequency of operation	360 ops./hour		
Operate/release time max.	25/25ms		
Contact ratings			
Type Load		Cycles	
UL 508			

Type	Load		Cycles
UL 508			
Ag			
· ·	5A, 240VAC		100x10 ³
	1/6HP, 120VAC		
	1/3HP, 240VAC		
	0.5A, 120VDC		
	2.5A, 120VAC, tungsten		
AgCdO	-		
-	10A, 250VAC		100x10 ³
	1/3HP, 120VAC		
	1/2HP, 250VAC		
	5A, 120VAC, tungsten		
	0.5A, 125VDC		
	10A, 28VDC		100x10 ³
	10FLA, 30LRA, 125VAC		
	5FLA, 15LRA, 250VAC		
	125VA, pilot duty, 125/250VAC		
Mechanical end	durance	10x10 ⁶ ops.	

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







Coil vers	Coil versions, DC coil 1)						
Coil	Coil Rated code voltage		Coil	Rated coil			
code			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 co	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 '1	r r	Access to the second of	and the state of the state of the	10 Miles 10	0 - 0		

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	
hetween insulated elements	100MQ



KUL Series Latching Panel Plug-in Relay (Continued)

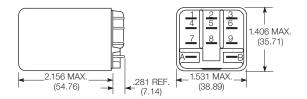
Other Data				
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conf				
	refer to the Product Compliance Support Center at			
	www.te.com/customersupport/rohssupportcenter			
Ambient temperature				
DC coil	Single coil: -45°C to 70°C			
	Dual coil: -45°C to 50°C			
AC coil	Single coil: -45°C 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/Po	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)		

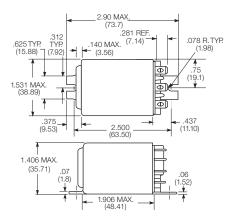
Dimensions

Other Data

Plain case

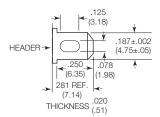


Bracket mount case



Terminal dimensions

4.75mm (.187) quick connect

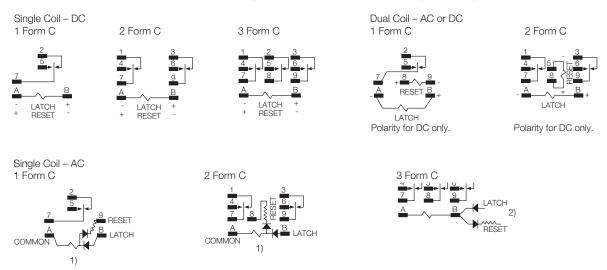




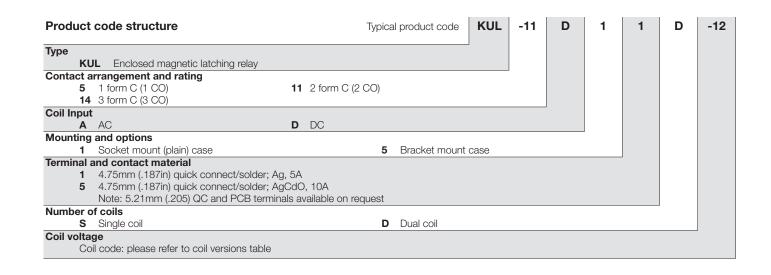
KUL Series Latching Panel Plug-in Relay (Continued)

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

terms of the disclaimer and all chapters of

the 'Definitions' section, available at

http://relays.te.com/definitions

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