

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 request
Contact Data	
Contact arrangement	1 form C (CO), 2 form C (CO), 3 form C (CO)
Rated voltage	240VAC
Rated current	100

Contact arrangement	1 101111 0 (00), 2 101111 0	<i>5</i> (<i>CO</i>), <i>3</i> IOIIII <i>C</i> (<i>CO</i>)
Rated voltage	240	VAC
Rated current	1(DA .
Contact material	Ag	AgCdO
Min. recommended contact load	d 100mA, 12VDC	300mA, 12VDC
Frequency of operation	360 ops./hour	
Operate/release time max.	25/25ms	

Contact	ratings
Contact	ratings

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 UI	Class B







Coil vers	Coil versions, 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	il 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	versions,	AC	coil	3
--------------------------	------	-----------	----	------	---

		,			
Coil	Rated	Operate	Latch coil	Reset coil	Reset coil
code	voltage	voltage	resistance	resistance	resistor
	VAC	VAC	$\Omega \pm 15\%$	Ω±15%	Ω
Single co	oil				
24	24	20.4	176	_	680
120	120	102.0	3700	_	15000
240	240	204.0	179000	-	68000
Dual coil					
24	24	20.4	100	250	_
120	120	102.0	2525	2200	5600

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



KUL Series Latching Panel Plug-in Relay (Continued)

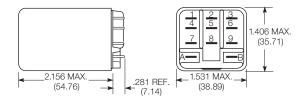
Other Data	
Material compliance: EU Rol	HS/ELV, China RoHS, REACH, Halogen content
refer to	the Product Compliance Support Center at
www.te	e.com/customersupport/rohssupportcenter
Ambient temperature	
DC coil	Single coil: -45°C to 70°C
	Dual coil: -45°C to 50°C
AC coil	Single coil: -45°C to 70°C
Category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

Accessories	S	
For details see datasheet Sockets and Accessories, KUP Relays		
Product Code	Description	
27E893	DIN socket (use 2	OC318 clip)
27E121	Track mount sock	ket (use 20C314 clips)
27E043	Chassis mount/so	older 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)

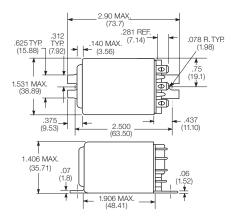
Dimensions

Other Data

Plain case

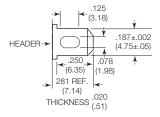


Bracket mount case



Terminal dimensions

4.75mm (.187) quick connect

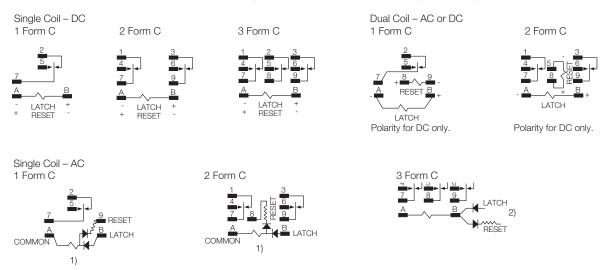




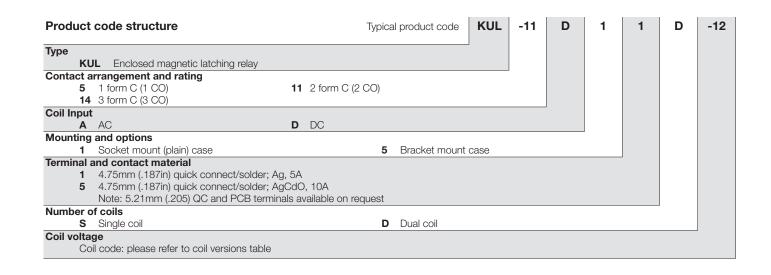
KUL Series Latching Panel Plug-in Relay (Continued)

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

PCN-105D3MH,000 59641F200 LY1SAC110120 5X827E 5X837F 5X840F 5X842F 5X848E LY2N-AC120 LY2S-AC220/240 LY2-US-AC120 LY3-US-AC120 LY4F-UA-DC12 LY4F-UA-DC24 LY4F-US-AC120 LY4F-US-AC240 LY4F-US-DC24 LY4F-VD-AC110 LYQ20DC12 M115C60 M115N010 M115N0150 6031007G 603-12D 61211T0B4 61212T400 61222Q400 61243B600 61243C500 61243Q400 61311BOA2 61311BOA6 61311BOA8 61311COA2 61311COA1 61311COA6 61311F0A2 61311QOA1 61311QOA4 61311T0D6 61311TOA6 61311TOA6 61311TOB3 61311TOB4 61311U0A6 61312Q600 61312T400 61312T600 61313U200 61313U400