

SP

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 D	ala				
Contact arra	ngement 1 f	orm C (CO), 2 form (C (CO), 3 form C (CO)		
Rated voltag	e	240VAC			
Rated curren	ıt	1(AC		
Contact mate	erial	Ag	AgCdO		
Min. recomm	nended contact load	100mA, 12VDC	300mA, 12VDC		
Frequency of	f operation	360 ops./hour			
Operate/relea	ase time max.	25/25ms			
Contact rat					
Туре	Load		Cycles		
UL 508					
Ag					
	5A, 240VAC		100x10 ³		
	1/6HP, 120VAC				
	1/3HP, 240VAC				
	0.5A, 120VDC				
	2.5A, 120VAC, tur	ngsten			
AgCdO					
-	10A, 250VAC		100x10 ³		
	1/3HP, 120VAC				
	1/2HP, 250VAC				
	5A, 120VAC, tung	sten			
	0.5A, 125VDC				
	10A, 28VDC		100x10 ³		
	10FLA, 30LRA, 12	25\/AC	100/10		
	5FLA, 15LRA, 250				
	, , ,				
Machanical	125VA, pilot duty,)6 epo		
Mechanical e	endurance	TUXIC) ⁶ ops.		

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



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 co	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) Lateband report and voltages and registerings are the same (unlike colla on regulat)								

 Latch and reset coil voltages and resistances are the same (unlike coils on request).
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	Ω±15%	Ω±15%	Ω				
Single co	bil								
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	100MΩ

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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KUL Series Latching Panel Plug-in Relay (Continued)

Other Data

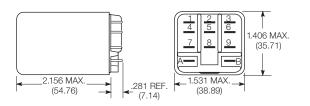
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conter					
refer to the Produ	uct Compliance Support Center at				
www.te.com/cus	tomersupport/rohssupportcenter				
Ambient temperature					
DC coil	Single coil: -45°C to 70°C				
	Dual coil: -45°C to 50°C				
AC coil	Single coil: -45°C to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

Accessories

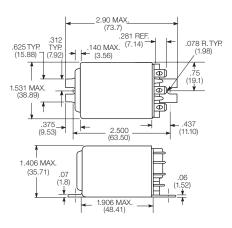
For details see datasheet		Sockets and Accessories, KUP Relays
Product Code	Description	
27E893	DIN socket (use 20	DC318 clip)
27E121	Track mount socke	et (use 20C314 clips)
27E043	Chassis mount/so	lder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PC	CB socket (use 20C254 clip)
27E067	Chassis mount/qu	ick connect socket (use 20C254 clip)
27E396	Snap-in/quick con	nect socket (use 20C254 clip)

Dimensions

Plain case

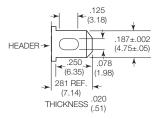


Bracket mount case



Terminal dimensions

4.75mm (.187) quick connect



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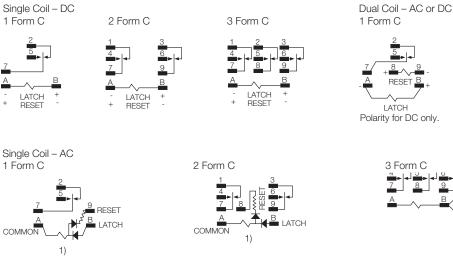
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KUL Series Latching Panel Plug-in Relay (Continued)

Terminal assignment

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



RESE LATCH Polarity for DC only.



2 Form C

Polarity for DC only.

ATCH 2)

RESET

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.

Produ	ict code stri	ucture	Typica	l product code	KUL	-11	D	1	1	D	-12
Туре					J						
	KUL Enclos	ed magnetic latching relay									
Conta	ct arrangemer	nt and rating									
	5 1 form C (1 CO) 1	11 2 form C (2 CO)								
	14 3 form C (3 CO)									
Coil In	put										
	A AC	1	DC								
Mount	ing and optior	าร									
	1 Socket mo	ount (plain) case	5	Bracket mount	case						
Termin	al and contac	t material									
	1 4.75mm (.	187in) quick connect/solder; Ag, 5	iΑ								
		187in) quick connect/solder; AgCo									
	Note: 5.21	mm (.205) QC and PCB terminals	available on request								
Numbe	er of coils										
	S Single coil		D	Dual coil							
Coil vo	•	ase refer to coil versions table									

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

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TE Connectivity: KUL-11D15D-48 KUL-11A15S-24