

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





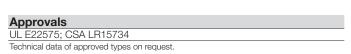




KUHP Series Panel Relay

- AC coils 6 to 277VAC 50/60Hz, DC 6 to 110VCD
- Contact arrangement up to 2 form C (CO)
- .250" combination push-on/solder terminals or PC terminals
- Side flange and top flange mounting
- Designed to meet VDE space requirements: Class B coil insulation

Typical applications Commercial HVAC, smart-grid communications controllers, baggage handling, pumps.



Contact Data	1 pole	2 pole
Contact arrangement	1 form C (CO)	2 form C (CO)
	1 form A (NO)	2 form A (NO)
	1 form B (NC)	2 form B (NC)
Rated voltage	240VAC	240VAC
Rated current	30A	20A
Contact material	AgCdO	AgCdO, AgSnOlnO
Min. recommended contact load	300mA, 12VDC	300mA, 12VDC
Initial contact resistance	200mΩ	$200 m\Omega$
Frequency of operation	360 ops./hour	360 ops./hour
Operate/release time max.	20/20ms	20/20ms
Bounce time max.	20ms	20ms

Contacts	ratings
Contacts	raungs

Contacts ratings				
Type	Load	Cycle	S	
1 pole, AgCdO		•	_	
	30A, 240VAC	100x10 ³ ops	3.	
	1HP, 120VAC	100x10 ³ ops	3.	
	1 1/2HP, 240VAC	100x10 ³ ops	3.	
	30 FLA, 96 LRA	100x10 ³ ops	3.	
	30A, 28 VDC	50x10 ³ ops	3.	
	10A, 480VAC	6x10 ³ ops	3.	
	1/2HP, 480VAC	25x10 ³ ops	3.	
	1HP, 480VAC, 3 phase	6x10 ³ ops	3.	
	1/2HP, 600VAC	25x10 ³ ops	3	
2 pole, AgCdO				
	20A, 240VAC	100x10 ³ ops	3.	
	3/4HP, 120VAC	100x10 ³ ops		
	1 1/2HP, 240VAC	100x10 ³ ops	3.	
	20 FLA, 83 LRA	100x10 ³ ops	3.	
	20A, 28 VDC	50x10 ³ ops	3.	
	10A, 480VAC	6x10 ³ ops	3.	
	1/2HP, 480VAC	25x10 ³ ops	3.	
	1HP, 480VAC, 3 phase	6x10 ³ ops	3.	
	1/2HP, 600VAC	25x10 ³ ops	3.	
2 pole AgSnOIn	nO			
	20 A, 240 VAC	25x10 ³ ops	3.	
Mechanical end	lurance	10x10 ⁶ ops.	_	
Coil Data				
Coil voltage ran	ge	6 to 110VDC	_	
		6 to 277VAC		
Coil insulation s	ystem according UL	Class B	_	



A1 (A)

Coil vers	sions, DC coil			
Coil	Rated	Operate	ReleaseCoil	Rated coil
code	voltage	voltagevoltage	resistance	power
	VDC	VDC	Ω±10%	W
006	6	4.5	32.1	1.13
012	12	9.0	120	1.20
024	24	18.0	472	1.23
048	48	36.0	1800	1.30
110	110	82.5	10000	1.22

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

Coil versions, AC coil

Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC	Ω±15%	VA
006	6	5.1	4.2	2.8
012	12	10.2	18	2.8
024	24	20.4	72	2.8
120	120	102.0	1700	2.9
240	240	204.0	7200	2.9
277	277	235.5	10250	2.5

All figures are given for coil without preenergization, at ambient temperature +23°C, 60 Hz.

Insulation Data	
Initial dielectric strength	
between open contacts	1200V _{me}
between contact and coil	3750V _{me}
between adjacent contacts	3750V _{me}
between coil and frame	2000V _{me}
Initial insulation resistance	1110
between insulated elements	100MΩ at 500VDC

between insulated elements	100MΩ at 500VDC
Other Data	
Ambient temperature	
DC coil	-45°C to 70°C
AC coil	-45°C to 45°C
Category of enviromental protection	
IEC 61810	RTI - dust protected and
	RT0 - open style
Terminal type	QC.250, PCB .047
Terminal retention, push force	
QC .205	17lbs for 3s
QC .110, QC .187, QC .250, all PCB	25lbs for 3s
Weight	92g
Packaging/unit	tray/25 pcs., box/150pcs.
	•

Accessories

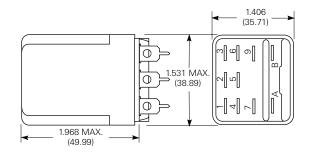
NOTE: no sockets are available for this relay



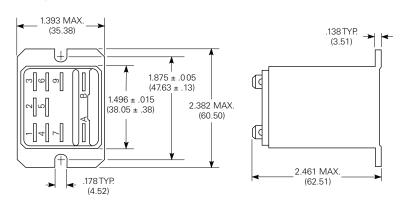
KUHP Series Panel Relay (Continued)

Dimensions

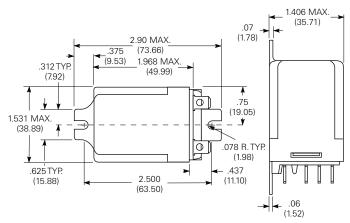
Plain case



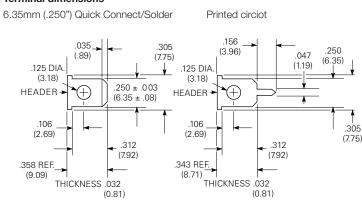
Top flange enclosure



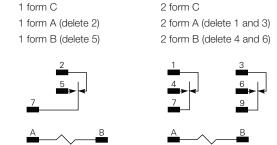
Bracket mount case



Terminal dimensions

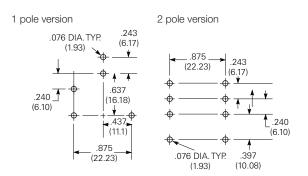


Terminal assignment



PCB layout

Bottom view on solder pins





KUHP Series Panel Relay (Continued)

Product code structure	Туріс	cal product code KUHP	11 A	5	1	-1
Гуре						
KUHP Enclosed Panel Plug-in Relay, 20/30A						
KUH Open Panel Plug-in Relay 20/30A						
Contact arrangement and rating						
1 1 form A (NO); 30A	7 2 formA (NO); 20A					
2 1 form B (NC); 30A	8 2 form B (NC); 20A					
5 1 form C (CO); 30A	11 2 form C (CO); 20A					
Coil Input						
A AC, 50/60Hz	D DC					
Mountings						
KUHP options	KUH options					
1 Plain case	1 #6-32 stud, 0.218" locating	tab				
5 Bracket mount case	4 #6-32 tapped core, 0.218" I	locating tab				
T Top flange mount case		-				
Terminals and contact materials					1	
1 .250" (6.35mm) guick connect/solder; silve	r-cadmium oxide 7 .0-	47" (1.19mm) printed circu	it; silver-cadn	nium oxide		
P .250" quick connect/solder; silver tin oxide	indium oxide S .0-	47" printed circuit; silver tir	oxide indium	n oxide		
Coil voltage						-
Coil code: please refer to coil versions table						

Product Code	Arrangement	Mounting	Coil	Terminals	Part Number
KUHP-5DT1-12	1 form C, 1 CO	top flange	12VDC	.250" quick connect	8-1393114-7
KUHP-5DT1-24			24VDC		8-1393114-8
KUHP-5D51-24		bracket			9-1393114-1
KUHP-5D51-12			12VDC		9-1393114-0
KUHP-5A51-24			24VAC		8-1393114-5
KUHP-5A51-120			120VAC		8-1393114-4
KUHP-5AT1-120		top flange			8-1393114-1
KUHP-11A51-24		bracket	24VAC		7-1393114-0
KUHP-11A51-240	2 form C, 2 CO		240VAC		7-1393114-1
KUHP-11AT1-120		top flange	120VAC		6-1393114-5
KUHP-11DT1-24			24VDC		7-1393114-3
KUHP-11D51-12		bracket	12VDC		7-1393114-7
KUHP-11D51-24			24VDC		7-1393114-8
KUHP-11DT1-12		top flange	12VDC		7-1393114-2