

## **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.

### Approvals

UL E22575; CSA LR15734 Technical data of approved types on request

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<b>Contact Dat</b>	a	1 pole	2 pole
Contact arrange	ement	1 form C (CC	)) 2 form C (CO)
		1 form A (NC	)) 2 form A (NO)
		1 form B (NC	c) 2 form B (NC)
Rated voltage		240VAC	240VAC
Rated current		30A	20A
Contact materia	al	AgCdO	AgCdO, AgSnOlnO
Min. recommer	nded contact load	300mA, 12VD	OC 300mA, 12VDC
Initial contact re	esistance	200mΩ	200mΩ
Frequency of o	peration	360 ops./hou	ır 360 ops./hour
Operate/release	e time max.	20/20ms	20/20ms
Bounce time m	ax.	20ms	20ms
Contacts ratir			
Туре	Load		Cycles
1 pole, AgCdO	001 010140		100 100
	30A, 240VAC		100x10 <sup>3</sup> ops.
	1HP, 120VAC		100x10 <sup>3</sup> ops.
	1 1/2HP, 240VAC		100x10 <sup>3</sup> ops.
	30 FLA, 96 LRA		100x10 <sup>3</sup> ops.
	30A, 28 VDC		50x10 <sup>3</sup> ops.
	10A, 480VAC		6x10 <sup>3</sup> ops.
	1/2HP, 480VAC		25x10 <sup>3</sup> ops.
	1HP, 480VAC, 3 pł	nase	6x10 <sup>3</sup> ops.
	1/2HP, 600VAC		25x10 <sup>3</sup> ops.
2 pole, AgCdO			
	20A, 240VAC		100x10 <sup>3</sup> ops.
	3/4HP, 120VAC		100x10 <sup>3</sup> ops.
	1 1/2HP, 240VAC		100x10 <sup>3</sup> ops.
	20 FLA, 83 LRA		100x10 <sup>3</sup> ops.
	20A, 28 VDC		50x10 <sup>3</sup> ops.
	10A, 480VAC		6x10 <sup>3</sup> ops.
	1/2HP, 480VAC		25x10 <sup>3</sup> ops.
	1HP, 480VAC, 3 ph	ase	6x10 <sup>3</sup> ops.
	1/2HP, 600VAC		25x10 <sup>3</sup> ops.
2 pole AgSnOlr			
	20 A, 240 VAC		25x10 <sup>3</sup> ops.
Mechanical end	lurance	10	x10 <sup>6</sup> ops.
Coil Data			
		C t	0 110VDC
Coil voltage ran	ige		o 277VAC
Coil insulation of	system according UL		Class B
	system according OL		

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$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Coil	Rated	Operate ReleaseCoil		Rated coil		
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	code	voltage	voltagevoltage resistance		voltagevoltage resistance		power
012129.01201.200242418.04721.230484836.018001.30		VDC	VDC	Ω±10%	W		
024 24 18.0 472 1.23   048 48 36.0 1800 1.30	006	6	4.5	32.1	1.13		
048 48 36.0 1800 1.30	012	12	9.0	120	1.20		
	024	24	18.0	472	1.23		
110 110 82.5 10000 1.22	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 versions, DC coil

Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	voltage resistance	
	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
A 11 C1				0000 0011

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

### **Insulation Data**

Initial dielectric strength	
between open contacts	1200V <sub>rms</sub>
between contact and coil	3750V
between adjacent contacts	3750V <sub>ms</sub>
between coil and frame	2000V_ms
Initial insulation resistance	
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

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Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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Catalog product data, 'Definitions' section, application notes and all specifications are subject to change. 1

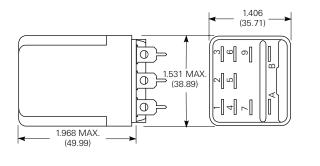


### General Purpose Panel/Plug-in Relays

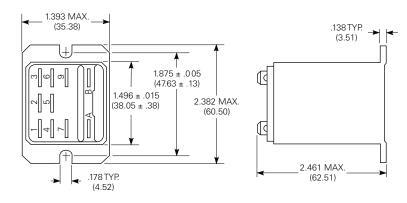
## KUHP Series Panel Relay (Continued)

### Dimensions

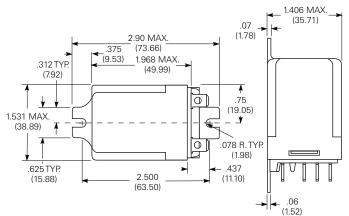
Plain case



Top flange enclosure



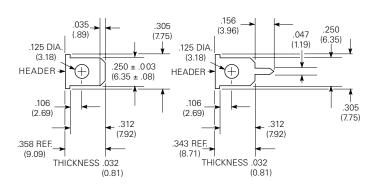
Bracket mount case



#### Terminal dimensions

6.35mm (.250") Quick Connect/Solder

Printed circiot

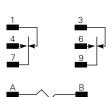


#### **Terminal assignment**

1 form C

- 1 form A (delete 2)
- 1 form B (delete 5)





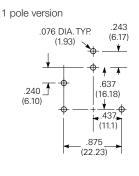
2 form A (delete 1 and 3)

2 form B (delete 4 and 6)

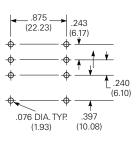
2 form C

### PCB layout

Bottom view on solder pins



2 pole version



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# General Purpose Panel/Plug-in Relays

# KUHP Series Panel Relay (Continued)

Product	code structure		Typical product code <b>KUHP</b> 11	Α	5	1	-120
Туре							
KU KU	<b>IHP</b> Enclosed Panel Plug-in Relay, 20/30A <b>IH</b> Open Panel Plug-in Relay 20/30A						
Contact a	rrangement 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				
Mounting	s						
κŪ	IHP options	KU	l options				
1	Plain case	1	#6-32 stud, 0.218" locating tab				
5	Bracket mount case	4 #6-32 tapped core, 0.218" locating tab					
т	Top flange mount case						
<b>Ferminals</b>	and contact materials					-	
1	.250" (6.35mm) quick connect/solder; silve	er-ca	mium oxide <b>7</b> .047" (1.19mm) printed circuit; silve	er-cadmiu	m oxide		
Р	.250" quick connect/solder; silver tin oxide	indi	m oxide <b>S</b> .047" printed circuit; silver tin oxide	e indium o	xide		
Coil volta	ge						-
Co	il 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

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