

# **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	200mΩ
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	iuuiigo

Contacts ratin	igs		
Туре	Load	C	Cycles
1 pole, AgCdO			
	30A, 240VAC	100x10 <sup>3</sup>	³ ops.
	1HP, 120VAC	100x10 <sup>3</sup>	³ ops.
	1 1/2HP, 240VAC	100x10 <sup>3</sup>	³ ops.
	30 FLA, 96 LRA	100x10 <sup>3</sup>	³ ops.
	30A, 28 VDC	50x10	³ ops.
	10A, 480VAC	6x10 <sup>3</sup>	³ ops.
	1/2HP, 480VAC	25x10°	³ ops.
	1HP, 480VAC, 3 phase	6x10 <sup>3</sup>	³ ops.
	1/2HP, 600VAC	25x10 <sup>3</sup>	³ ops
2 pole, AgCdO			
	20A, 240VAC	100x10 <sup>3</sup>	³ ops.
	3/4HP, 120VAC	100x10 <sup>3</sup>	³ ops.
	1 1/2HP, 240VAC	100x10 <sup>3</sup>	
	20 FLA, 83 LRA	100x10 <sup>3</sup>	
	20A, 28 VDC	50x10	
	10A, 480VAC	6x10 <sup>3</sup>	- 1
	1/2HP, 480VAC	25x10°	
	1HP, 480VAC, 3 phase		³ ops.
	1/2HP, 600VAC	25x10 <sup>3</sup>	³ ops.
2 pole AgSnOlr			
	20 A, 240 VAC	25x10 <sup>6</sup>	³ ops.
Mechanical end	lurance	10x10 <sup>6</sup> ops.	
Coil Data			
Coil voltage ran	ge	6 to 110VDC	
		6 to 277VAC	
Coil insulation s	system according UL	Class B	





Coil versions, DC coil						
Coil	Rated	Operate	ReleaseCoil	Rated coil		
code	voltage	voltagevoltage resistance		power		
	VDC	VDC	$\Omega \pm 10\%$	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	$\Omega \pm 15\%$	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 <sub>rms</sub>
between contact and coil	3750V <sub>m</sub>
between adjacent contacts	3750V <sub>m</sub>
between coil and frame	2000V <sub>rms</sub>
Initial insulation resistance	IIII
between insulated elements	100MΩ at 500VDC

JUVDC
′0°C
15°C
ected and
style
B .047
3s
3s
x/150pcs.

#### Accessories

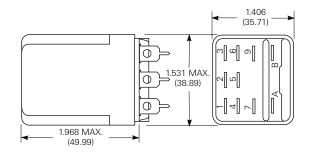
NOTE: no sockets are available for this relay



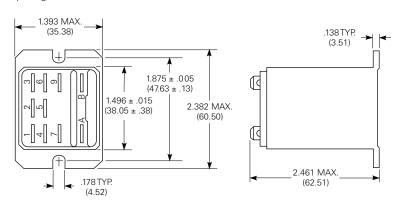
## **KUHP Series Panel Relay** (Continued)

#### **Dimensions**

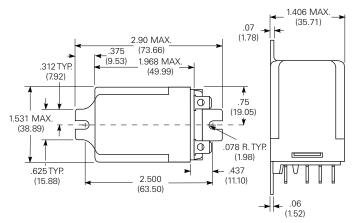
#### Plain case



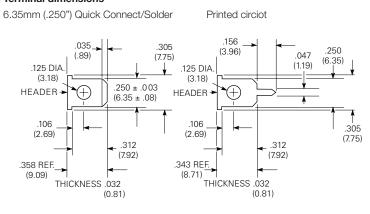
#### Top flange enclosure



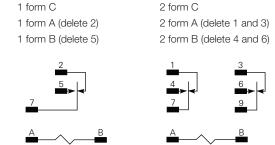
#### Bracket mount case



#### Terminal dimensions

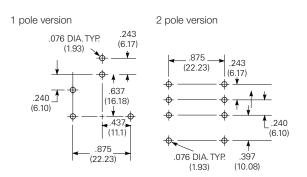


#### Terminal assignment



### **PCB** layout

Bottom view on solder pins





# KUHP Series Panel Relay (Continued)

Product 2	code structure			Typical product code	KUHP	11	Α	5	1	-12
уре					J					
	JHP Enclosed Panel Plug-in Relay, 20/30A									
KU	JH Open Panel Plug-in Relay 20/30A									
ontact 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							
oil Input										
Α	AC, 50/60Hz	D	DC							
lounting	s							•		
ΚŬ	JHP options	KU	H options							
1	Plain case	1	#6-32 stud, 0.218" ld	ocating tab						
5	Bracket mount case	4	#6-32 tapped core, (	0.218" locating tab						
Т	Top flange mount case			· ·						
erminals	and contact materials								,	
1	.250" (6.35mm) quick connect/solder; silve	er-ca	dmium oxide	7 .047" (1.19mm) pri	nted circu	ıit: silver	r-cadmiur	n oxide		
Р	.250" quick connect/solder; silver tin oxide	indi	um oxide	S .047" printed circuit	t: silver tir	n oxide i	indium ox	kide		
oil volta					,					_
,	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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TE Connectivity: