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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

Contact Data1 pole2 poleContact arrangement1 form C (CO)2 form A (NO)1 form A (NO)2 form B (NC)Rated voltage240VACRated voltage240VACRated current30A20AContact materialAgCdOAgCdO, AgSnOlnOMin. recommended contact load300mA, 12VDCInitial contact resistance200mΩ200mΩPrequency of operation360 ops./hour360 ops./hourOperate/release time max.20/20ms20/20msBounce time max.20ms20msContacts ratingsTypeLoadTypeLoad100x10³ ops.1 hPl, 120VAC100x10³ ops.1 hPl, 120VAC100x10³ ops.30A, 28 VDC50x10° ops.30A, 28 VDC50x10° ops.10A, 480VAC25x10° ops.1/2HP, 480VAC25x10° ops.1/2HP, 480VAC100x10° ops.2 pole, AgCdO20A, 240VAC2 pole AgSnOlnO <t< th=""><th>lechnical data of a</th><th>pproved types on reques</th><th>st.</th><th></th></t<>	lechnical data of a	pproved types on reques	st.	
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2 pole AgSnOlnO 20 A, 240 VAC 25x10 ³ ops. Mechanical endurance 10x10 ⁶ ops. Coil Data Coil voltage range 6 to 110VDC 6 to 277VAC			030	25×10^3 ops.
20 A, 240 VAC 25x10 ³ ops. Mechanical endurance 10x10 ⁶ ops. Coil Data 6 to 110VDC Coil voltage range 6 to 277VAC	2 nole AgSnOlr			20/10 003.
Mechanical endurance 10x10 ⁶ ops. Coil Data Coil voltage range 6 to 110VDC 6 to 277VAC	2 2010 / 90/10/1			25x10 ³ ops.
Coil Data Coil voltage range 6 to 110VDC 6 to 277VAC	Mechanical end	,	10x	
Coil voltage range 6 to 110VDC 6 to 277VAC				1
6 to 277VAC	Coil Data			
	Coil voltage ran	ge		
Coil insulation system according UL Class B				
	Coil insulation s	system according UL	С	lass B

ver	sions, DC coil			
	Rated	Operate	ReleaseCoil	Rated coil
е	voltage	voltagevoltage	resistance	power
	VDC	VDC	Ω±10%	W
	6	4.5	32.1	1.13
	12	9.0	120	1.20
	24	18.0	472	1.23
	48	36.0	1800	1.30

11011082.5100001.22All figures are given for coil without preenergization, at ambient temperature +23°C.

Coil versions, AC coil

Coil

Coil

code

Coil	Rated	Operate	Coil	Rated coil		
code	voltage	voltage	voltage resistance		e 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 C				0000 0011		

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

Insulation Data Initial dielectric strength 1200V_{rms} 3750V_{rms} between open contacts between contact and coil between adjacent contacts 3750V_{rms} between coil and frame 2000V Initial insulation resistance 100MΩ at 500VDC between insulated elements **Other Data** Ambient temperature -45°C to 70°C DC coil AC coil -45°C to 45°C Category of environmental protection IEC 61810 RTI - dust protected and RT0 - open style QC.250, PCB .047 Terminal type Terminal retention, push force QC .205 17lbs for 3s QC .110, QC .187, QC .250, all PCB 25lbs for 3s 92g Weight

Packaging/unit

NOTE: no sockets are available for this relay

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

Catalog 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

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

1

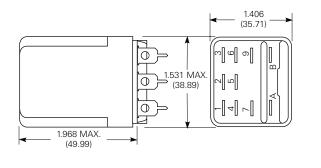
tray/25 pcs., box/150pcs



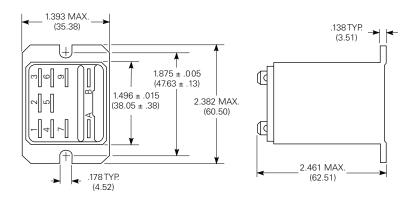
KUHP Series Panel Relay (Continued)

Dimensions

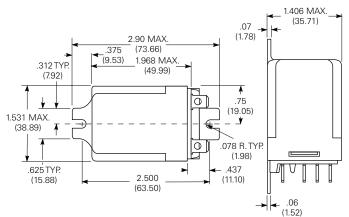
Plain case



Top flange enclosure



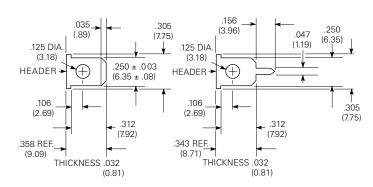
Bracket mount case



Terminal dimensions

6.35mm (.250") Quick Connect/Solder

Printed circiot

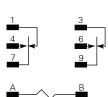


Terminal assignment

1 form C

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





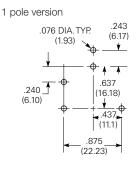
2 form A (delete 1 and 3)

2 form B (delete 4 and 6)

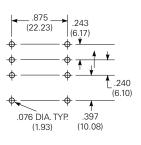
2 form C

PCB layout

Bottom view on solder pins



2 pole version



2

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

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



General Purpose Panel/Plug-in Relays

KUHP Series Panel Relay (Continued)

Product	code structure			Typical product code	KUHP	11	Α	5	1	-12
уре					J					
KU	JHP Enclosed Panel Plug-in Relay, 20/30A JH Open Panel Plug-in Relay 20/30A									
Contact a	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							
oil Input	1						-			
A	AC, 50/60Hz	D	DC							
lounting	S									
ĸŬ	JHP options	κι	H options							
1	Plain case	1	#6-32 stud, 0.218" loc	ating tab						
5	Bracket mount case	4	#6-32 tapped core, 0.1	218" locating tab						
т	Top flange mount case			-						
erminals	and contact materials								-	
1	.250" (6.35mm) quick connect/solder; silve	ər-ca	dmium oxide 7	.047" (1.19mm) pri	nted circu	uit: silver	-cadmiun	n oxide		
Р	.250" quick connect/solder; silver tin oxide	e indi	um oxide	.047" printed circui	t; silver tir	n oxide i	indium ox	ide		
oil 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

3

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity: KUHP-1A51-240