

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

Technical data of approved types on request.

■ 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

Min. recommen	ded contact load	300mA, 12VDC	300mA, 12VDC
Initial contact re	sistance	200mΩ	200mΩ
Frequency of or	peration	360 ops./hour	360 ops./hour
Operate/release	time max.	20/20ms	20/20ms
Bounce time ma	ax.	20ms	20ms
Contacts ration	i gs Load		Cvcles
1 pole, AgCdO	Loud		Oycics
	30A, 240VAC		100x103 ops.
	1HP, 120VAC		100x10 ³ ops.
	1 1/2HP, 240VAC		100x103 ops.

	1HP, 120VAC	100x10 ³ ops.
	1 1/2HP, 240VAC	100x10 ³ ops.
	30 FLA, 96 LRA	100x10 ³ ops.
	30A, 28 VDC	50x10 ³ ops.
	10A, 480VAC	6x10 ³ ops.
	1/2HP, 480VAC	25x10 ³ ops.
	1HP, 480VAC, 3 phase	6x10 ³ ops.
	1/2HP, 600VAC	25x10 ³ ops.
2 pole, AgCdO		
	20A, 240VAC	100x10 ³ ops.
	3/4HP, 120VAC	100x10 ³ ops.
	1 1/2HP, 240VAC	100x10 ³ ops.
	20 FLA, 83 LRA	100x10 ³ ops.
	20A, 28 VDC	50x10 ³ ops.
	10A, 480VAC	6x10 ³ ops.
	1/2HP, 480VAC	25x10 ³ ops.
	1HP, 480VAC, 3 phase	6x10 ³ ops.
	1/2HP, 600VAC	25x10 ³ ops.
2 pole AgSnOIn	О	
	20 A, 240 VAC	25x10 ³ ops.
NA I I I I		0106

Mechanical endurance	10x10 ⁶ ops.	
Coil Data		
Coil voltage range	6 to 110VDC	
	6 to 277VAC	
Coil insulation system according UL	Class B	





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	coi
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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 _{ms}
between contact and coil	3750V
between adjacent contacts	3750V
between coil and frame	2000V
Initial insulation resistance	11110
between insulated elements	100MΩ at 500VDC

100MΩ at 500VDC
-45°C to 70°C
-45°C to 45°C
RTI - dust protected and
RT0 - open style
QC.250, PCB .047
17lbs for 3s
25lbs for 3s
92g
tray/25 pcs., box/150pcs.

Accessories

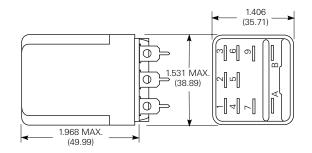
NOTE: no sockets are available for this relay



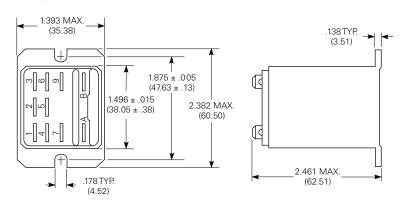
KUHP Series Panel Relay (Continued)

Dimensions

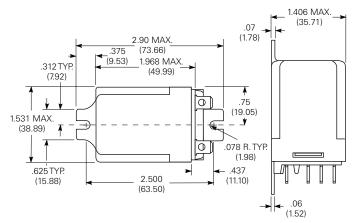
Plain case



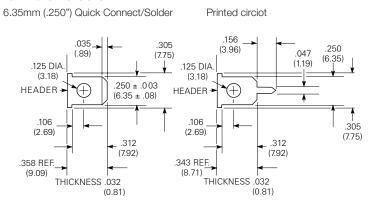
Top flange enclosure



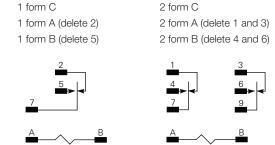
Bracket mount case



Terminal dimensions

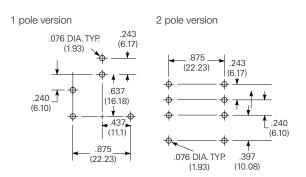


Terminal assignment



PCB layout

Bottom view on solder pins





KUHP Series Panel Relay (Continued)

Product code structure	Typical product code KUHP	11	A 5	1	-1
Type					
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" locating tab				
T Top flange mount case					
Terminals and contact materials					
1 .250" (6.35mm) quick connect/solder; silve	r-cadmium oxide 7 .047" (1.19mm) printed circu	uit; silver-ca	admium oxide		
P .250" quick connect/solder; silver tin oxide	indium oxide S .047" printed circuit; silver tir	n oxide ind	lium 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

Mouser Electronics

Authorized Distributor

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<u>TE Connectivity</u>: 3-1423983-5