

KUHP Series Panel Relay

- AC coils 6 to 277VAC 50/60Hz, DC 6 to 110VDC
- 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 Data	1 pole	2 pole
Contact arrangement	1 form C (CO) 1 form A (NO) 1 form B (NC)	2 form C (CO) 2 form A (NO) 2 form B (NC)
Rated voltage	240VAC	240VAC
Rated current	30A	20A
Contact material	AgCdO	AgCdO, AgSnInO
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

Type	Load	Cycles
1 pole, AgCdO	30A, 240VAC	100x10 ³ 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
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.
2 pole AgSnInO	20 A, 240 VAC	25x10 ³ ops.
	Mechanical endurance	10x10 ⁶ ops.

Coil Data

Coil voltage range	6 to 110VDC 6 to 277VAC
Coil insulation system according UL	Class B

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	ReleaseCoil resistance Ω±10%	Rated coil power 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 code	Rated voltage VAC	Operate voltage VAC	Coil resistance Ω±15%	Rated coil power 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 _{rms}
between contact and coil		3750V _{rms}
between adjacent contacts		3750V _{rms}
between coil and frame		2000V _{rms}
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 environmental protection		
IEC 61810		RTI - dust protected and RTO - 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

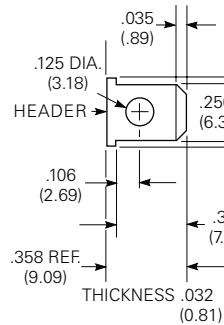


Bracket mount case

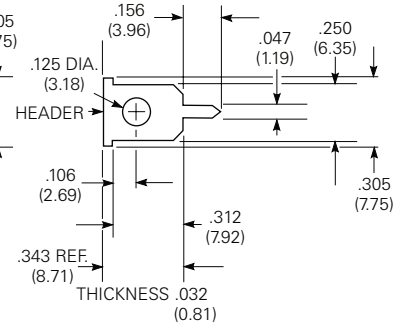


Terminal dimensions

6.35mm (.250") Quick Connect/Solder



Printed circuit



Terminal assignment

1 form C

1 form A (delete 2)

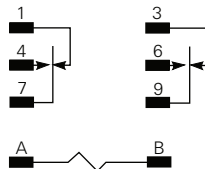
1 form B (delete 5)



2 form C

2 form A (delete 1 and 3)

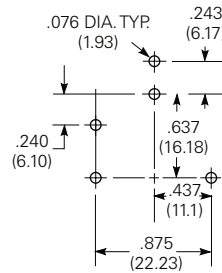
2 form B (delete 4 and 6)



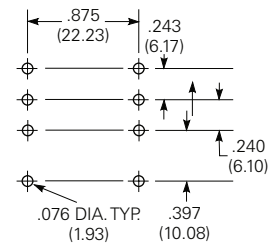
PCB layout

Bottom view on solder pins

1 pole version



2 pole version



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