

KUMP Series Panel Plug-in Relay

- 15 amp rating
- Contact arrangements 1-3 form A, 1-3 form B, 1-3 form C, 1 form X, 1 form Y, 1 form Z
- Open or enclosed
- Plain or bracket mount dust covers
- Optional indicator lamp and push-to-test button
- Several termination and mounting styles

Typical applications

Hospital beds, semiconductor wafer equipment, boom/bucket lifts.

Approvals					
UL E22575; CSA LR15734					
Technical data of approved types	Technical data of approved types on request.				
Contact Data					
Contact arrangement	1, 2 an	d 3 form A (NO); 1,	2 and 3 form B (NC);		
	1, 2 an	d 3 form C (CO); 1 f	orm X (NO-DM);		
	1 form Y (NC-DB); 1 form Z (CO-DB-DM)				
Rated voltage	277VAC				
Rated current		15	5A		
Contact material		AgCdO	AgSnOlnO		
Min. recommended contact	load	300mA, 12VDC	300mA, 12VDC		
Frequency of operation		360 ops./hour	360 ops./hour		
Operate/releases time max.		15/10ms			
Bounce time max. 17ms					

Type	Load		Cycles
UL 508			
AgCdO			
	15A, 277VAC		
	1/2HP, 120VAC		
	10A, 240VAC		
	10A, 32VDC		
	5FLA, 15LRA, 250VAC		
	5A, 120VAC, tungsten		
	0.5A, 250VAC		
	0.5A, 125VDC		
	10FLA, 40LRA, 125VAC		
	3A, 600VAC		
	1/2HP, 480VAC		
	1/2HP, 600VAC		
	1HP, 480VAC, 3 phase		
AgSnOlnO			
· ·	15A, 277VAC, pf = 0.8		15x10 ³
	10A, 277VAC, pf = 0.8		100x10 ³
Mechanical e	endurance	10x10 ⁶ ops.	

Coil Da	nta			
Coil volta	ige range		5 to 110VDC	
			6 to 240VAC	
Coil insul	ation system ac	cording UL	Class B	
Coil vers	sions, DC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDC	VDC	Ω±10%	W
5	5	3.75	21	1.2
6	6	4.5	32.1	1.125
12	12	9.0	120	1.2
24	24	18.0	472	1.25
48	48	36.0	1800	1.3
110	110	82.5	10000	1.25

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









Coil vers	sions, AC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC	Ω±15%	VA
6	6	5.1	4.2	2.8
12	12	10.2	18	2.8
24	24	20.4	72	2.8
120	120	102.0	1700	2.9
240	240	204.0	7200	2.9

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

Insulation Data	
Initial dielectric strength	
between open contacts	1200V _{rms}
between contact and coil	2200V _{ms}
between adjacent contacts	2200V _{ms}
Initial insulation resistance	*****
between insulated elements	100MΩ, 500VDC

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

www.te.com/customersupport/rohssupportcenter

Ambient temperature

DC coil

Enclosed relays: -45°C to 70°C

Open relays: 15°C higher maximum

AC coil

Enclosed relays, 3 pole: -45°C to +45°C

Enclosed relays, 1 and 2 pole: 45°C to +5°C

Enclosed relays, 1 and 2 pole: -45°C to +55°C Open relays: 15°C higher maximum

Category of environmental protection

IEC 61810 RT0 - open relay; RTI - dust protected

Terminal type Quick connects (QC), .187, .205 or .250:

PCB-THT

Terminal retention, push force

Accessories

QC .205 17 lbs for 3s QC .187, QC .250, PCB 25 lbs for 3s Weight 85g Packaging/unit tray/25 pcs., box/150pcs.

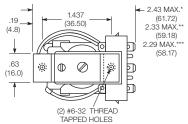
For details see datasheet		Sockets and Accessories, KUP Relays
Product Code	Description	
27E893	DIN socket (use 20	OC318 clip)
27E121	Track mount socke	et (use 20C314 clips)
27E043	Chassis mount/sol	der eyelet socket (use 20C254 clip)
27E046	Chassis mount/PC	B socket (use 20C254 clip)
27E067	Chassis mount/qu	ick connect socket (use 20C254 clip)
27E396	Snap-in/quick con	nect socket (use 20C254 clip)

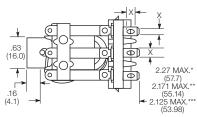


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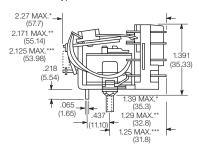
Dimensions

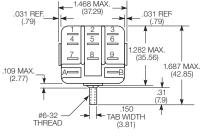
KUM bracket type





KUM stud type





Seated Heights For KUM (open) Relays

1.391" (35.33mm) for #6-32 stud with .218" (5.54mm) locating tab.

1.52" (38.6mm) for bracket with 2-#6 32 tapped holes.

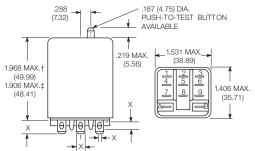
1.282" (32.56mm) for #6-32 tapped core with .125" (3.18mm) or .218" (5.54mm) locating tab.

2.046" (51.97mm) for relay with printed circuit terminals.

STUD TYPE also available with .125" (3.18mm) tab, as well as without stud and locating tab. Models without stud have core tapped #6-32 THREAD, .25" (6.4mm) minimum depth.

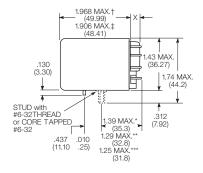
- *Dimensions with .250" (6.35mm) terminals.
- ** Dimensions with .110" (2.79mm) or .205"(5.21mm) terminals.
- *** Dimensions with .187" (4.75mm) terminals.

KUMP plain case

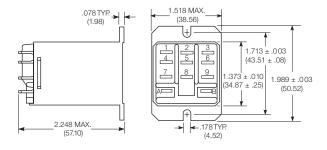


X Is For Terminal Dimensions. See Teminal Drawings.

KUMP core / stud mount case

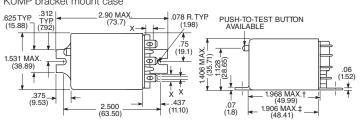


KUMP top flange case

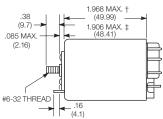


- † Dimensions with .250" (6.35mm) terminals.
- ‡ Dimensions with .187" (4.75mm and .205" 5.21mm) terminals.
- *Dimensions with .250" (6.35mm) terminals.
- ** Dimensions with .110" (2.79mm) or .205"(5.21mm) terminals.
- *** Dimensions with .187" (4.75mm) terminals.

KUMP bracket mount case



KUMP stud on end case



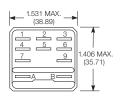


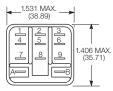
KUMP Series Panel Plug-in Relay (Continued)

Relay front diagrams

Models with 6.35mm (.250) QC terminals

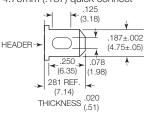
Models with all other terminals

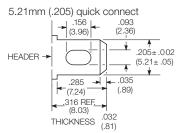


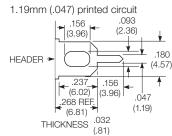


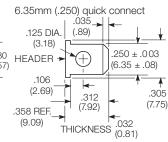
Terminal dimensions

4.75mm (.187) quick connect







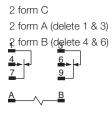


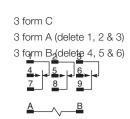
Terminal assignment

1 form Z 1 form X (delete 1 & 3) 1 form Y (delete 4 & 6) 4 6



1 form C
1 form A (delete 2)
1 form B (delete 5)
5
7

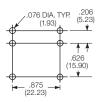




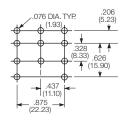
PCB layout

Bottom view on solder pins

1 form Z version (Omit unnecessry holes for form X and Y types)



3 pole version (Omit unnecessry holes for form A and 2 pole types)





KUMP Series Panel Plug-in Relay (Continued)

Product code structure Typical product code **KUMP** -11 8 -120 KUM 15A open style relay **KUMP** 15A enclosed relay Contact arrangement 1 form A (1 NO) 1 form B (1 NC) 1 form X (1 NO-DM) 1 form Y (1 NC-DB) 1 form C (1 CO) 6 1 form Z (1 CO-DB-DM) 2 form A (2 NO) 8 2 form B (2 NC) 11 2 form C (2 CO) **12** 3 form A (3 NO) 13 3 form B (3 NC) 14 3 form C (3 CO) Coil Input **A** AC, 50/60Hz **D** DC Mounting and options KUM #6-32 mounting stud, 5.54mm (.218in) locating tab 2-hole bracket, #6-32 tapped #6-32 tapped core, 3.18mm (.125in) locating tab 3 #6-32 tapped core, 5.54mm (.218in) locating tab #6-32 tapped core, no locating tab 5 **KUMP** Socket mount (plain) case Socket mount (plain) case with push-to-test button Socket mount (plain) case with indicator lamp¹⁾ 3 Socket mount (plain) case with indicator lamp and push-to-test button¹⁾ Bracket mount case Bracket mount case with push-to-test button Bracket mount case with indicator lamp¹⁾ Bracket mount case with indicator lamp and push-to-test button¹⁾ 8 9 Plain case with #6-32 stud and locating tab on end of case Plain case with #6-32 stud and locating tab Plain case with #6-32 stud and locating tab, push-to-test button Plain case with #6-32 stud and locating tab, indicator lamp¹⁾ C D Plain case with #6-32 stud and locating tab, push-to-test button and indicator lamp¹⁾ Plain case with #6-32 tapped core and locating tab Plain case with #6-32 tapped core and locating tab, push-to-test button Plain case with #6-32 tapped core and locating tab, indicator lamp¹ G Plain case with #6-32 tapped core and locating tab, push-to-test button and indicator lamp¹⁾ Top flange case 1) Indicator lamps are available on models with the following coils: 6-24VAC and VDC, 110VDC and 120-240VAC. Only models with 120-240VAC coils are UL recognized. Terminal and contact material 5.21mm (.205in) quick connect/solder; AgCdO 4.75mm (.187in) quick connect/solder; AgCdO 1.19mm (.047in) PCB, AgCdO 6.35mm (.250in) quick connect/solder; AgCdO 2) 5.21mm (.205in) quick connect/solder; AgSnOlnO 4.75mm (.187in) quick connect/solder; AgSnOlnO 6.35mm (.250in) quick connect/solder; AgSnOlnO 2) 1.19mm (.047in) PCB, AgSnOlnO 2) 6.35mm (.250in) quick connect/solder terminals are not available on 3 pole relays

Coil	voltage
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Coil code: please refer to coil versions table

Product Code	Arrangement	Material	Coil	Terminals	Mounting	Part Number
KUMP-11A18-24	2 form C; 2 CO	AgCdO	24 VAC	4.75mm (.187in) QC	Socket mount, plain case	6-1393116-3
KUMP-11A18-120			120 VAC			6-1393116-2
KUMP-11A18-240			240 VAC			6-1393116-4
KUMP-11D18-12			12 VDC			7-1393116-1
KUMP-11D18-24			24 VDC			7-1393116-2
KUMP-11D18-110			110 VDC			7-1393116-0
KUMP-14A18-24	3 form C, 3 CO		24 VAC			8-1393116-5
KUMP-14A18-120			120 VAC			8-1393116-4
KUMP-14D18-12			12 VDC			9-1393116-0
KUMP-14D18-24			24 VDC			9-1393116-1