

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 on request	

Contact Data				
Contact arrangement	1, 2 and 3 Form A (NO); 1, 2 and 3 Form B (NC);			
	1, 2 and 3 Form C (CO); 1 Form X (NO-DM);			
	1 Form Y (NC-DB); 1 Form	Z (CO-DB-DM)		
Rated voltage	277VAC			
Rated current	15A			
Contact material	AgCdO	AgSnOlnO		
Frequency of operation	360 ops./hour	360 ops./hour		
Operate/releases time max.	15/10ms			
Bounce time may	17ms			

Contact	ratings
Contact	raungs

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, <u>480VAC</u>, 3 phase

AgSnOlnO

15A, 277VAC, pf = 0.8	15x10 ³
10A, 277VAC, pf = 0.8	100x10 ³
Mechanical endurance	10x10 ⁶ ops.

Coil Da	ata				
Coil volta	age range		5 to 110VDC		
			6 to 240VAC		
Coil insu	lation system ac	cording UL	Class B		
Coil ver	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	

82.5 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	$\Omega \pm 15\%$	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 _{rms}
between adjacent contacts	2200V _{rms}
Initial insulation resistance	
between insulated elements	100MΩ, 500VDC

Other Data

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 +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

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

Accessories			
For details see datasheet		Sockets and Accessories, KUP Relays	
Product Code	Description		
27E893	DIN socket an	d 20C318 clip	
27E121	Track mount s	ocket and 20C314 clip	
27E043	Chassis moun	t/solder eyelet socket and 20C254 clip	
27E046	Chassis moun	t/PCB socket and 20C254 clip	
27E067	Chassis moun	t/quick connect socket and 20C254 clip	
27E396	Snap-in/quick	connect socket and 20C254 clip	

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1.25

10000

Datasheets 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

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

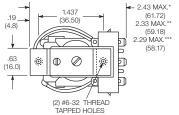
110

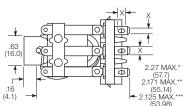


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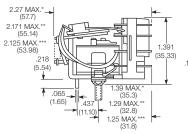
Dimensions

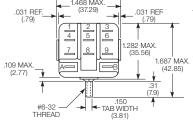
KUM bracket type





KUM stud type

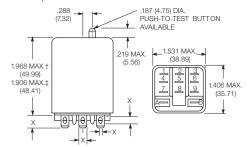




Seated Heights For KUM (open) Relays

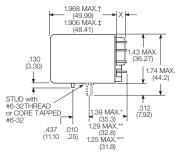
- 1.391" (35.33mm) for #6-32 stud with .218" (5.54mm) locating tab.
- 1.52" (38.6mm) for bracket with 2-#6 32 tapped holes.
- 1.282" (32.56mm) for #6-32 tapped core with .125" (3.18mm) or .218" (5.54mm) locating tab.
- 2.046" (51.97mm) for relay with printed circuit terminals.
- STUD TYPE also available 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

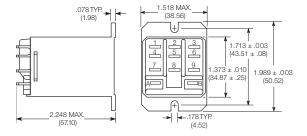


X Is For Terminal Dimensions. See Teminal Drawings.

KUMP core / stud mount case

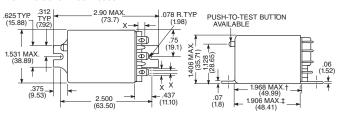


KUMP top flange case

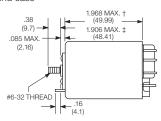


- † Dimensions with .250" (6.35mm) terminals. ‡ Dimensions with .187" (4.75mm and .205" 5.21mm) terminals.
- *Dimensions with .250" (6.35mm) terminals.
 ** Dimensions with .110" (2.79mm) or .205"(5.21mm) terminals.
- *** Dimensions with .187" (4.75mm) terminals.

KUMP bracket mount case



KUMP stud on end case



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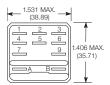


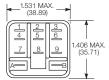
KUMP Series Panel Plug-in Relay (Continued)

Relay front diagrams

Models with 6.35mm (.250) QC terminals

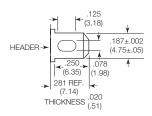
Models with all other terminals



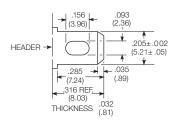


Terminal dimensions

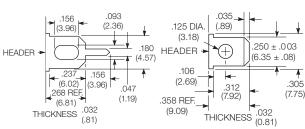
4.75mm (.187) quick connect



5.21mm (.205) quick connect



1.19mm (.047) printed circuit



Terminal assignment

1 Form Z

1 Form X (delete 1 & 3)

1 Form Y (delete 4 & 6)





1 Form C

1 Form A (delete 2) 1 Form B (delete 5)



2 Form C

2 Form A (delete 1 & 3)

2 Form B (delete 4 & 6)



3 Form C

3 Form A (delete 1, 2 & 3)

6.35mm (.250) quick connect

3 Form B (delete 4, 5 & 6)



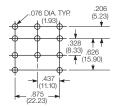
PCB layout

Bottom view on solder pins

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

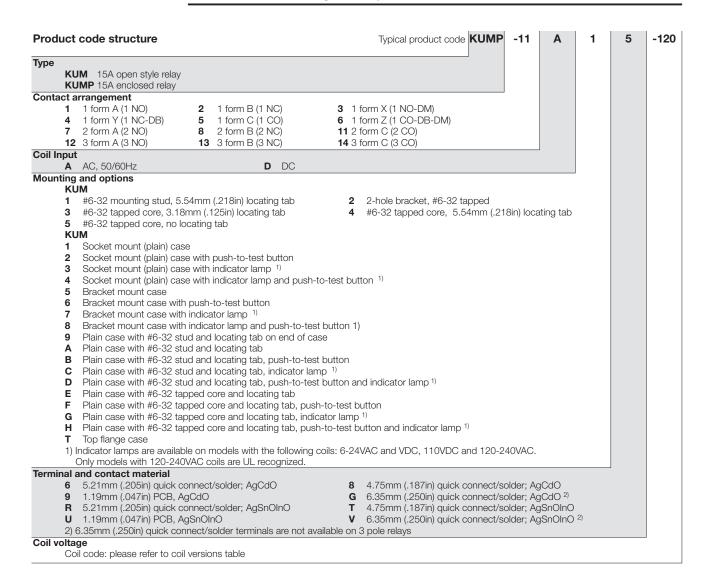


3 pole version (Omit unnecessry holes for form A and 2 pole types)





KUMP Series Panel Plug-in Relay (Continued)



Product Code	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

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