

KUEP Series Panel Plug-in Relay

- 1 Form X, 2 Form A and 2 Form C contact arrangements
- 10 amp current rating
- Magnetic blow-out
- **■** Various mounting options
- **■** Indicator lamp available

Typical applications DC load switching in industrial controls



AL (

Approvals
UL E22575; CSA LR15734; CE (KUEP-11 only)
Technical data of approved types on request

Contact Data		
Contact arrangement 1	form X (NO-DM), 2 form	A (NO), 2 form C (CO)
Rated voltage	150	VDC
Rated current	1	0A
Contact material	AgCdO	AgSnOlnO
Min. recommended contact loa	ad 300mA	, 12VDC
Frequency of operation	360 ops./hour	360 ops./hour
Operate/releases time max.	15/10ms	
Bounce time max.	17ms	

Bounce time max. 17ms Contact ratings Type Load Cycles UL 508 KUEP, 1 form X, AgCdO 10A, 150VDC 100x10³ 2.5 A, 170 VDC, resistive 100x10³ KUEP, 2 form A, AgCdO 2.5 A, 170 VDC, resistive 100x10³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	Operate/rel	eases time max. 15/10ms	
Type Load Cycles UL 508 KUEP, 1 form X, AgCdO 10A, 150VDC 100x10³ 1A, 300VDC 100x10³ 2.5 A, 170 VDC, resistive 100x10³ KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	Bounce tim	e max. 17ms	
UL 508 KUEP, 1 form X, AgCdO 10A, 150VDC 1A, 300VDC 2.5 A, 170 VDC, resistive KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	Contact ra	tings	
KUEP, 1 form X, AgCdO 10A, 150VDC 10, 300VDC 10, 300VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	Туре	Load	Cycles
10A, 150VDC 100x10 ³ 1A, 300VDC 100x10 ³ 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	UL 508		
1A, 300VDC 100x10 ³ 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	KUEP, 1 for	m X, AgCdO	
2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC		10A, 150VDC	100x10 ³
KUEP, 2 form A, AgCdO 5 A, 150 VDC 2.5 A, 170 VDC, resistive KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC		1A, 300VDC	100x10 ³
5 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC		2.5 A, 170 VDC, resistive	100x10 ³
2.5 A, 170 VDC, resistive 100x10 ³ KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	KUEP, 2 for	m A, AgCdO	
KUEP, 2 form C, AgCdO 3 A, 150 VDC 2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC		5 A, 150 VDC	
3 Å, 150 VDC 2.5 Å, 170 VDC, resistive 100x10 ³ 10 Å, 240 VAC 10 Å, 32 VDC 5 FLÅ, 15 LRÅ, 250 VAC 1/3 HP, 120 VAC		2.5 A, 170 VDC, resistive	100x10 ³
2.5 A, 170 VDC, resistive 100x10 ³ 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC	KUEP, 2 for	m C, AgCdO	
10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC		3 A, 150 VDC	
10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 1/3 HP, 120 VAC		2.5 A, 170 VDC, resistive	100x10 ³
5 FLÅ, 15 LRA, 250 VAC 1/3 HP, 120 VAC		10 A, 240 VAC	
1/3 HP, 120 VAC		10 A, 32 VDC	
•		5 FLA, 15 LRA, 250 VAC	
		1/3 HP, 120 VAC	
5 A, 120 VAC, tungsten		5 A, 120 VAC, tungsten	
1/2 HP, 250 VAC		1/2 HP, 250 VAC	
10 FLA, 40 LRA, 125 VAC			
3 A, 600 VAC			

5 A, 120 VAC, tungsten	
1/2 HP, 250 VAC	
10 FLA, 40 LRA, 125 VAC	
3 A, 600 VAC	
1/2 HP, 480 VAC	
1/2 HP, 600 VAC	
1 HP, 480 VAC, 3 phase	
KUEP, 1 form X, AgSnOInO	
10A, 150VDC, resistive	30x10 ³
KUEP, 2 form A, AgSnOlnO	
5 A, 150 VDC, resistive	100x10 ³
KUEP, 2 form C, AgSnOlnO	
3 A, 150 VDC, resistive	100x10 ³
Mechanical endurance	10x10 ⁶ ops.

Coil Da	ıta			
Coil volta	ige range		5 to 125VDC	
			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
One pol	e versions			
5	5	3.75	21	1.2
6	6	4.5	32	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
125	125	93.75	13000	1.2
Two pol	e versions			
5	5	3.75	14	1.8
6	6	4.5	20	1.8
12	12	9.0	80	1.8
24	24	18.0	320	1.8
48	48	36.0	1250	1.85
110	110	82.5	6720	1.8
125	125	93.75	8680	1.8

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

	_		
Coil	versions.	AC	coil

Coll vers	sions, AC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC	Ω±15%	VA
One pole	e versions			
6	6	5.1	6	2.0
12	12	10.2	24	2.0
24	24	20.4	85	2.0
120	120	102.0	2250	2.1
240	240	204.0	9110	2.1
Two pole	e versions			
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	100ΜΩ



KUEP Series Panel Plug-in Relay (Continued)

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 -45°C to 70°C
AC coil 1 pole: -45°C to 55°C
2 pole: -45°C to 45°C

Category of environmental protection IEC 61810

Vibration resistance (functional)
Shock resistance (functional)
Terminal type

RTI - dust protected .065" double amplitude, 10-55Hz 15g, 11ms (non-operating) Quick connects (QC), .187 or .205

PCB-THT

Terminal retention, push force

QC .205 17 lbs for 3s QC .187 25 lbs for 3s

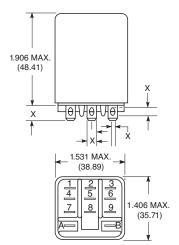
Other Data (Continued)	
Weight	85g
Packaging/unit	tray/25 pcs., box/150pcs.

Accessories	3	
For details see	datasheet	Sockets and Accessories, KUP Relays
Product Code	Description	
27E893	DIN socket (us	e 20C318 clip)

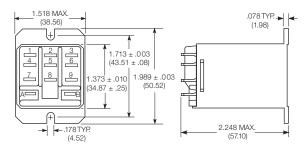
27E893	DIN socket (use 20C318 clip)
27E121	Track mount socket (use 20C314 clips)
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PCB socket (use 20C254 clip)
27E067	Chassis mount/quick connect socket (use 20C254 clip)
27F396	Snap-in/quick connect socket (use 20C254 clip)

Dimensions

Plain case

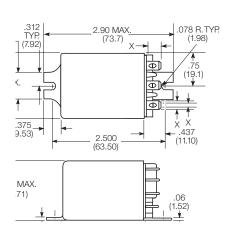


Top flange case

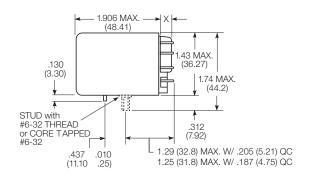


X Is For Terminal Dimensions. See Teminal Drawings.

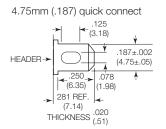
Bracket mount case

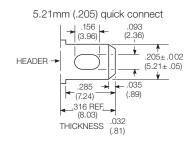


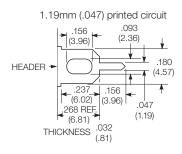
Core / stud mount case



Terminal dimensions









KUEP Series Panel Plug-in Relay (Continued)

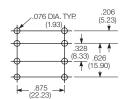
PCB layout

Bottom view on solder pins

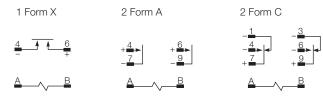
1 form X version

2 form C version shown (Omit unnecessary holes for form A types)

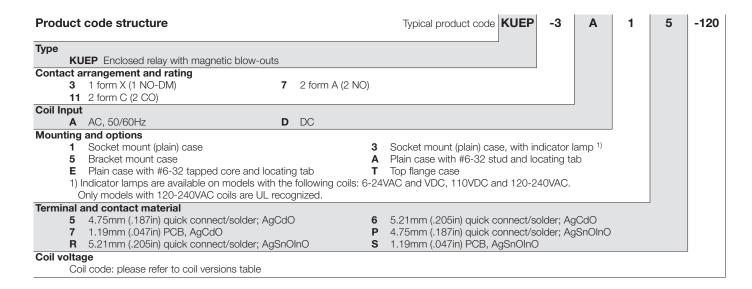




Terminal assignment



Load polarity noted above is recommended for optimum arc suppression.



Product Code	Arrangement	Material	Coil	Terminals	Mounting	Part Number
KUEP-3A15-120	1 Form X, 1 NO-DM	AgCdO	120 VAC	4.75mm (.187in) QC	Socket mount, plain case	9-1393113-4
KUEP-3D15-12			12 VDC			9-1393113-8
KUEP-3D15-24			24 VDC			1393114-1
KUEP-3D15-48			48 VDC			1393114-2
KUEP-3D15-110			110 VDC			9-1393113-7
KUEP-3D35-24			24 VDC		Socket mount, plain case w/ indicator lamp	1393114-5
KUEP-7D15-24	2 Form A, 2 NO				Socket mount, plain case	1-1393114-1
KUEP-11A15-120	2 Form C, 2 CO		120 VAC			8-1393113-3
KUEP-11D15-12			12 VDC			8-1393113-6
KUEP-11D15-24			24 VDC			8-1393113-7
KUEP-11D15-48			48 VDC			8-1393113-8
KUEP-11D15-110			110 VDC			8-1393113-5

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