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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 Locomotives

Approvals

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

Contact Data

gement 1 form X		
		AgSnOlnO
operation		360 ops./hour
	15/10ms	
nax.	17ms	
-		
Load		Cycles
		100x10 ³
,		100x10 ³
	tive	100x10 ³
	tive	100x10 ³
	tive	100x10 ³
	'AC	
1/3 HP, 120 VAC		
5 A, 120 VAC, tungste	en	
1/2 HP, 250 VAC		
0.5 A, 125 VDC		
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 pha	ISE	
X, AgSnOlnO		
10A, 150VDC, resistiv	/e	30x10 ³
	/e	100x10 ³
3 A, 150 VDC, resistiv	/e	100x10 ³
	10x10	
	gement 1 form X ial poperation : pses time max. nax. . nax. . . igs Load . X, AgCdO 10A, 150VDC . 1A, 300VDC . . 2.5 A, 170 VDC, resis . . A, AgCdO 5 A, 150 VDC . 2.5 A, 170 VDC, resis . . A, AgCdO 3 A, 150 VDC . 2.5 A, 170 VDC, resis . . (AgCdO 3 A, 150 VDC . 2.5 A, 170 VDC, resis . . (AgCdO 3 A, 150 VDC . 2.5 A, 170 VDC, resis . . (AgCdO . . . 2.5 A, 170 VDC, resistive . . . (AgCdO 	gement 1 form X (NO-DM), 2 form 150 16 16 16 20peration 360 ops./hour ses time max. 15/10ms nax. 17ms 17ms 17ms 17ms 17ms 17ms 16 17ms 17ms 17ms 17ms 16 10A, 150VDC 2.5 A, 170 VDC, resistive 2.5 A, 170 VDC, resistive 10 A, 240 VAC 10 A, 240 VAC 10 A, 32 VDC 5 FLA, 15 LRA, 250 VAC 17 HP, 250 VAC 0.5 A, 125 VDC 10 FLA, 40 LRA, 125 VAC 1/2 HP, 250 VAC 0.5 A, 125 VDC 10 FLA, 40 LRA, 125 VAC 1/2 HP, 480 VAC 1/2 HP, 480 VAC 1/2 HP, 480 VAC, 3 phase X, AgSnOlnO 10A, 150VDC, resistive A, AgSnOlnO 10A, 150VDC, resistive

Coil Data

eon Bata		
Coil voltage range	5 to 110VDC	
	6 to 240VAC	
Coil insulation system according UL	Class B	

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Coil vers	sions, DC coil						
Coil	Rated	Operate	Coil	Rated coil			
code	voltage	voltage	resistance	power			
	VDC	VDC					
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			
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			
All figures a	are given for coil wit	hout preenergization	at ambient temperatur	re +23°C			

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

Coil versions, AC coil

COIL VELS	SIULIS, AC CUI			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAČ	VAC	Ω±15%	VA
One pol	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 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	1200Vms
between contact and coil	2200Vms
between adjacent contacts	2200 Vrms
Initial insulation resistance	2200 V _{rms}
	100110
between insulated elements	100ΜΩ

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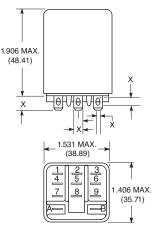
KUEP Series Panel Plug-in Relay (Continued)

Other Data

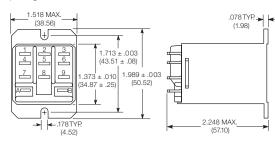
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content					
refer to the Product Compliance Support Center at					
www.te.com/ci	ustomersupport/rohssupportcenter				
Ambient temperature					
DC coil	-45°C to 70°C				
AC coil	1 pole: -45°C to 55°C				
	2 pole: -45°C to 45°C				
Category of environmental protection	1				
IEC 61810	RTI - dust protected				
Vibration resistance (functional)	.065" double amplitude, 10-55Hz				
Shock resistance (functional)	15g, 11ms (non-operating)				
Terminal type	Quick connects (QC), .187 or .205				
	PCB-THT				
Terminal retention, push force					
QC .205	17 lbs for 3s				
QC .187	25 lbs for 3s				

Dimensions

Plain case



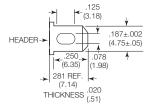
Top flange case



X Is For Terminal Dimensions. See Teminal Drawings.

Terminal dimensions

4.75mm (.187) quick connect



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5.21mm (.205) quick connect

.285 - .035

.032

(.81)

.093 (2.36)

¥

(.89)

.205±.002

★ (5.21±.05)

*

.156

(3.96

(7.24)

.316 REE

(8.03)

THICKNESS

-

HEADER →

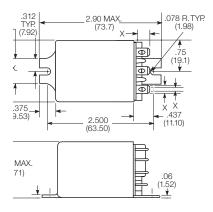
Other Data (Continued)

vveigni	ooy		
Packaging/unit	tray/25 pcs., box/150pcs.		

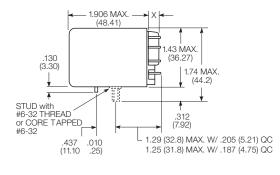
Accessories

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

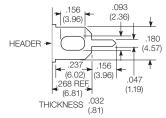
Bracket mount case



Core / stud mount case



1.19mm (.047) printed circuit



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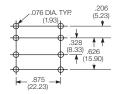
PCB layout

Bottom view on solder pins

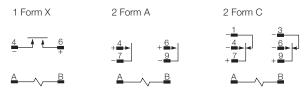
1 form X version

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





Terminal assignment



Load polarity noted above is recommended for optimum arc suppression.

Produc	t code structure				Typical product code KUEP -3	Α	1	5	-120
Туре									
K	(UEP Enclosed relay with magnetic blow-out	S							
Contact	arrangement and rating								
3	1 form X (1 NO-DM)	7	2 form A (2 NC)					
1	1 2 form C (2 CO)								
Coil Inp	ut								
A	AC, 50/60Hz	D	DC						
Mountin	g and options								
1	Socket mount (plain) case			3	Socket mount (plain) case, with indicator	r lamp 1)			
5	Bracket mount case			Α	Plain case with #6-32 stud and locating	tab			
E	Plain case with #6-32 tapped core and loc	ating	g tab	Т	Top flange case				
1) Indicator lamps are available on models with	the	following coils: 6	6-24	VAC and VDC, 110VDC and 120-240VAC				
	Only models with 120-240VAC coils are UL r	ecog	gnized.						
Termina	I and contact material							,	
5	4.75mm (.187in) quick connect/solder; Ag	CdO)	6	5.21mm (.205in) quick connect/solder; A	AgCdO			
7	1.19mm (.047in) PCB, AgCdO			Ρ	4.75mm (.187in) quick connect/solder; A	AgSnOlnO			
F	5.21mm (.205in) quick connect/solder; Ag	SnO	InO	S	1.19mm (.047in) PCB, AgSnOlnO				
Coil volt	age								,
C	coil code: please refer to coil versions table								

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			8-1393113-8
KUEP-11D15-24			24 VDC			8-1393113-7
KUEP-11D15-48			48 VDC			8-1393113-6
KUEP-11D15-110			110 VDC			8-1393113-5

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