ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

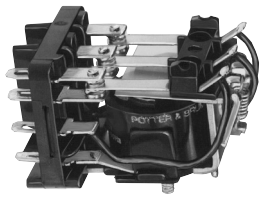
Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Siemens / Potter & Brumfield KUP-11D55* at our website: *Click HERE*

KUP Series Panel Plug-in Relay

- **AC coils: 5-240VAC, 50/60 Hz.; DC coils 6-110VDC**
- **Contact arrangements of 1 form X, 1-3 form A and 1-4 form C**
- **Wide selection of termination and mounting styles**
- **PC terminals available**
- **Push-to-test button and indicator lamp options**
- **Sockets available for panel, DIN rail or PCB mounting**
- **Class B coil insulation**





Typical applications
Vending, commercial sewing, tool/die equipment, robotics, timers, welding, HVAC, medical, power generators

Approvals

UL E22575; CSA LR15734
Technical data of approved types on request

Contact Data

Contact arrangement	1 Form X (NO-DM); 1-3 Form A (NO); 1-4 Form C (CO)		
Rated voltage	240VAC		
Rated current	10A		
Contact material	Ag	AgCdO	AgSnOInO
Min. recommended contact load	100mA, 12VDC	300mA, 12VDC	300mA, 12VDC
Frequency of operation	360 ops./hr	360 ops./hr	360 ops./hr
Operate/releases time max.	15/10ms		
Bounce time max.	17ms		

Contact ratings

Type	Load	Cycles
UL 508		
Ag, 1, 2 and 3 pole		
	5A, 240VAC	
	5A, 28VDC	
	1/6HP, 120VAC	
	2.5A, 120VAC, tungsten	
	1/3HP, 240VAC	
	0.5A, 120VDC	
	5FLA, 15LRA, 250VAC	
Ag, 4 pole		
	5A, 240VAC	
	2.5A, 120VAC, tungsten	
	0.5A, 120VDC	
	1/6HP, 120VAC	
	1/3HP, 240VAC	
AgCdO, 1, 2 and 3 pole		
	10A, 240VAC	
	10A, 32VDC	
	5FLA, 15LRA, 250VAC	
	1/3HP, 120VAC	
	5A, 120VAC, tungsten	
	1/2HP, 250VAC	
	0.5A, 125VDC	
	10FLA, 40LRA, 125VAC	
	3A, 600VAC	
	1/2HP, 480VAC	
	1/2HP, 600VAC	
	1HP, 480 VAC, 3 phase	
AgCdO, 4 pole		
	10A, 240VAC	
	5A, 120VAC, tungsten	
	0.5A, 120VDC	
	10A, 28VDC, resistive	
	10FLA, 30LRA, 125VAC	
	5FLA, 15LRA, 250 VAC	$30x10^3$
	125VA, 250 VAC	
AgCdO, 4 pole (continued)		
	1/3HP, 120VAC	
	1/2HP, 250VAC	
Total load not to exceed 30 A, 28 VDC, 120 VAC and 20 A, 250 VAC		
AgSnOInO		
	10A, 277VAC, pf = 0.8	$100x10^3$
Mechanical endurance	$10x10^6$ ops.	

Coil Data

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

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Coil resistance Ω±10%	Rated coil power W
1, 2 and 3 pole				
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
4 pole				
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 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
1 and 2 pole				
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
3 and 4 pole				
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.

08-2011, Rev. 0811
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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.

KUP Series Panel Plug-in Relay (Continued)

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

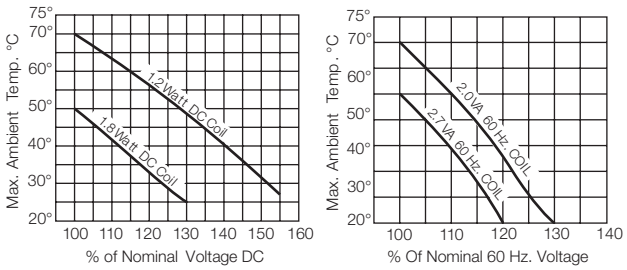
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature

DC coil: Enclosed relays, 4 pole: -45ºC to 50ºC
Enclosed relays, 1-3 pole: -45ºC to 70ºC
Open relays: 15ºC higher maximum

AC coil: Enclosed relays, 3 and 4 pole: -45°C to +45°C
Enclosed relays, 1 and 2 pole: -45ºC to +55ºC
Open relays: 15°C higher maximum

Maximum allowable ambient temperature vs voltage (KUP enlcosed)



Other Data (continued)

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.

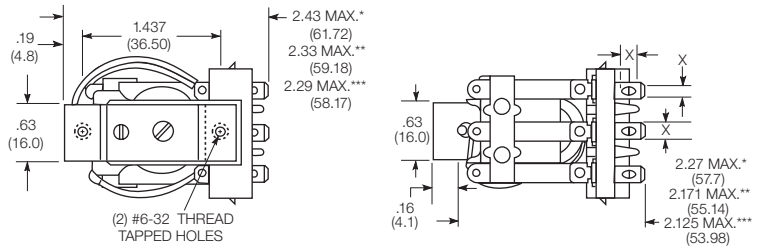
Accessories

For details see datasheet: Sockets and Accessories, KUP Relays

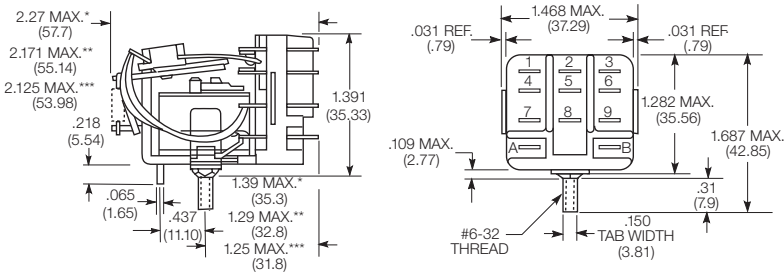
Product Code	Description
27E893	DIN socket (use 20C318 clip)
27E121	Track mount socket (use 20C314 clips)
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PCB socket (use 20C254 clip)
27E067	Chassis mount/quick connect socket (use 20C254 clip)
27E396	Snap-in/quick connect socket (use 20C254 clip)

Dimensions

KU bracket type



KU stud type



Seated Heights For KU (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.

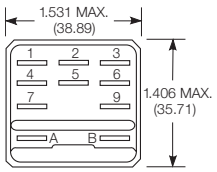
2.046" (51.97mm) for relay with printed circuit terminals.

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.

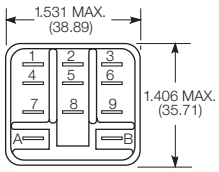
*Dimensions with .250" (6.35mm) terminals.
** Dimensions with .110" (2.79mm) or .205" (5.21mm) terminals.
*** Dimensions with .187" (4.75mm) terminals.

Relay front diagrams

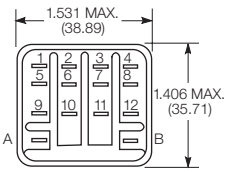
Models with 6.35mm (.250) QC terminals



1-3 pole models with all other terminals



4 pole models



08-2011, Rev. 0811
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

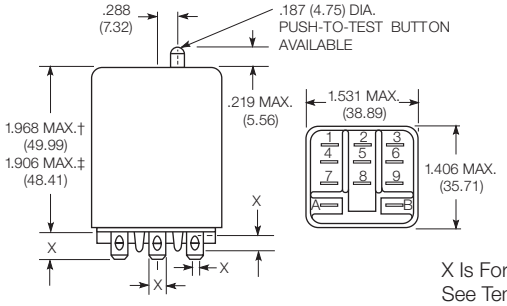
Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

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

KUP Series Panel Plug-in Relay (Continued)

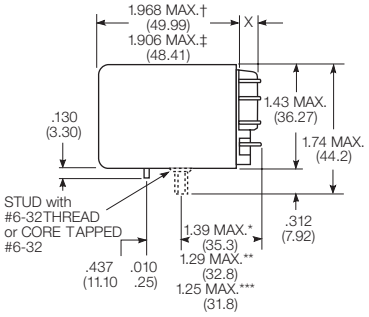
Dimensions (continued)

KUP plain case

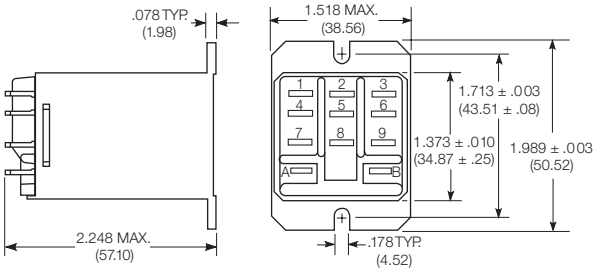


X Is For Terminal Dimensions.
See Teminal Drawings.

KUP core / stud mount case



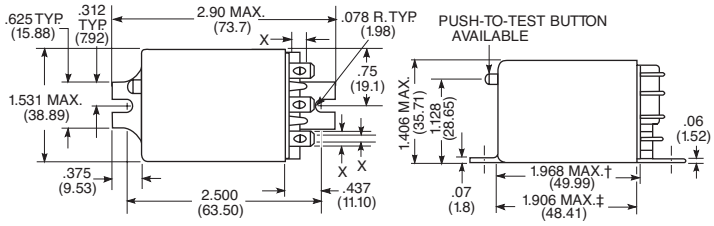
KUP top flange case



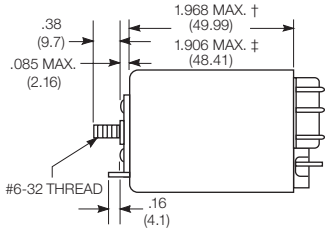
† Dimensions with .250" (6.35mm) terminals.
‡ Dimensions with .187" (4.75mm and .205" 5.21mm) terminals.

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

KUP bracket mount case

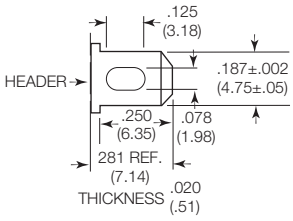


KUP stud on end case

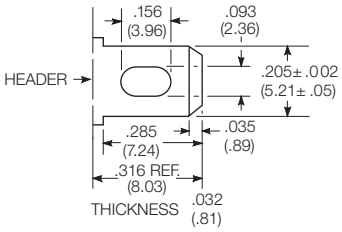


Terminal dimensions

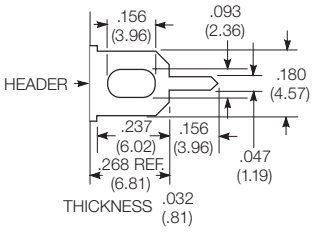
4.75mm (.187) quick connect



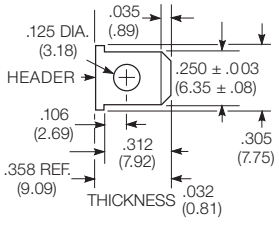
5.21mm (.205) quick connect



1.19mm (.047) printed circuit

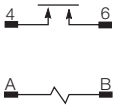


6.35mm (.250) quick connect

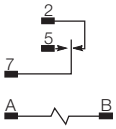


Terminal assignment

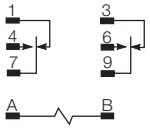
1 Form X



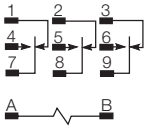
1 Form C
1 Form A (delete 2)



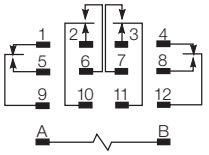
2 Form C
2 Form A (delete 1 & 3)



3 Form C
3 Form A (delete 1, 2 & 3)



4 Form C



08-2011, Rev. 0811
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

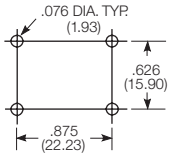
Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

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

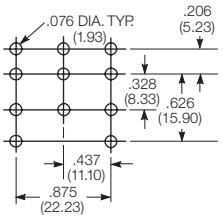
KUP Series Panel Plug-in Relay (Continued)

PCB layout
Bottom view on solder pins

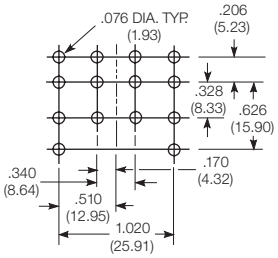
1 form X version



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



4 pole version



Product code structure Typical product code: **KUP -14 A 1 5 -120**

Type
KU Open style relay **KUP** Enclosed relay

Contact arrangement
1 1 form A (1 NO) **3** 1 form X (1 NO-DM) **5** 1 form C (1 CO)
7 2 form A (2 NO) **11** 2 form C (2 CO) **12** 3 form A (3 NO)
14 3 form C (3 CO) **17** 4 form C (4 CO)

Coil Input
A AC, 50/60Hz **D** DC

Mounting and options
KU
1 #6-32 mounting stud, 5.54mm (.218in) locating tab
3 #6-32 tapped core, 3.18mm (.125in) locating tab
4 #6-32 tapped core, 5.54mm (.218in) locating tab
5 #6-32 tapped core, no locating tab
KUP
1 Socket mount (plain) case
2 Socket mount (plain) case with push-to-test button 1)
3 Socket mount (plain) case with indicator lamp 2)
4 Socket mount (plain) case with indicator lamp and push-to-test button 1) 2)
5 Bracket mount case
A Plain case with #6-32 stud and locating tab
E Plain case with #6-32 tapped core and locating tab
T Top flange case 1)
1) Not available with four pole models (Contact arrangement 17).
2) 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
1 and 2 pole models
1 4.75mm (.187in) quick connect/solder; Ag, 5A
5 4.75mm (.187in) quick connect/solder; AgCdO, 10A
J 6.35mm (.250in) quick connect/solder; Ag, 5A
P 4.75mm (.187in) quick connect/solder; AgSnOInO, 10A
W 6.35mm (.250in) quick connect/solder; AgSnOInO, 10A
3 1.19mm (.047in) PCB; Ag, 5A
7 1.19mm (.047in) PCB; AgCdO, 10A
K 6.35mm (.250in) quick connect/solder; AgCdO, 10A
S 1.19mm (.047in) PCB, AgSnOInO; 10A
3 pole models
1 4.75mm (.187in) quick connect/solder; Ag, 5A
5 4.75mm (.187in) quick connect/solder; AgCdO, 10A
P 4.75mm (.187in) quick connect/solder; AgSnOInO, 10A
3 1.19mm (.047in) PCB; Ag, 5A
7 1.19mm (.047in) PCB; AgCdO, 10A
S 1.19mm (.047in) PCB, AgSnOInO; 10A
4 pole models
1 4.75mm (.187in) quick connect/solder; Ag, 5A 3)
4 2.79mm (.110in) quick connect/solder; Ag, 5A
7 1.19mm (.047in) PCB; AgCdO, 10A
P 4.75mm (.187in) quick connect/solder; AgSnOInO, 10A 3)
U 2.79mm (.110in) quick connect/solder; AgSnOInO, 10A 2)
3 1.19mm (.047in) PCB; Ag, 5A
5 4.75mm (.187in) quick connect/solder; AgCdO, 10A 3)
9 2.79mm (.110in) quick connect/solder; AgCdO, 10A
S 1.19mm (.047in) PCB, AgSnOInO; 10A
3) 4 pole KUP with 4.75mm (.187in) terminals will not plug into sockets. Must use 2.79mm (.110) terminals for socket mounting.

Au flashed contact option
Leave Blank No Au flashing on contacts
F Optional Au flashing on contacts

Coil voltage
Coil code: please refer to coil versions table

08-2011, Rev. 0811
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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.

KUP Series Panel Plug-in Relay (Continued)

Product Code	Arrangement	Material	Coil	Terminals	Mounting	Part Number
KUP-5A15-24	1 form C, 1 CO	AgCdO	24VAC	4.75mm (.187in) QC	Socket mount, plain case	6-1393118-0
KUP-5A15-120			120VAC			5-1393119-9
KUP-5A15-240			240VAC			6-1393118-1
KUP-5A55-120			120VAC		Bracket mount case	6-1393118-3
KUP-5D15-12			12VDC		Socket mount, plain case	6-1393118-6
KUP-5D15-24			24VDC			6-1393118-7
KUP-5D55-12			12VDC		Bracket mount case	7-1393118-0
KUP-5D55-24			24VDC			7-1393118-1
KUP-11A11-120	2 form C, 2 CO	Ag	120VAC		Socket mount, plain case	1-1393117-7
KUP-11A15-12		AgCdO	12VDC			1-1393117-8
KUP-11A15-24			24VAC			2-1393117-1
KUP-11A15-120			120VAC			1-1393117-9
KUP-11A15-240			240VAC			2-1393117-2
KUP-11A35-120			120VAC		Socket mount case w/ indicator lamp	2-1393117-5
KUP-11A55-24			24VAC		Bracket mount case	3-1393117-0
KUP-11A55-120			120VAC			2-1393117-9
KUP-11AT5-120					Top flange case	1-1393117-4
KUP-11D11-24		Ag	24VDC		Socket mount, plain case	4-1393117-2
KUP-11D15-5		AgCdO	5VDC			4-1393117-8
KUP-11D15-12			12VDC			4-1393117-4
KUP-11D15-24			24VDC			4-1393117-5
KUP-11D15-36			36VDC			4-1393117-6
KUP-11D15-110			110VDC			4-1393117-3
KUP-11D35-24			24VDC		Socket mount case w/ indicator lamp	5-1393117-3
KUP-11D55-6			6VDC		Bracket mount case	6-1393117-0
KUP-11D55-12			12VDC			5-1393117-6
KUP-11D55-24			24VDC			5-1393117-8
KUP-11D55-48			48VDC			5-1393117-9
KUP-11D55-110			110VDC			5-1393117-5
KUP-14A11-120	3 form C, 3 CO	Ag	120VAC		Socket mount, plain case	7-1393117-3
KUP-14A15-12		AgCdO	12VAC			7-1393117-7
KUP-14A15-24			24VAC			7-1393117-9
KUP-14A15-120			120VAC			7-1393117-8
KUP-14A15-240			240VAC			8-1393117-0
KUP-14A25-120			120VAC		Socket mount w/ test button	8-1393117-3
KUP-14A35-120					Socket mount w/ indicator lamp	8-1393117-7
KUP-14A35-240			240VAC			8-1393117-9
KUP-14A35F-120		AgCdO w/ Au flash	120VAC			9-1393117-0
KUP-14A45-120		AgCdO			Socket mount w/ test button, indicator lamp	9-1393117-4
KUP-14A55-24			24VAC		Bracket mount case	1393118-2
KUP-14A55-120			120VAC			9-1393117-9
KUP-14A55-240			240VAC			1393118-3
KUP-14D11-24		Ag	24VDC		Socket mount, plain case	1-1393118-0
KUP-14D15-6		AgCdO	6VDC			1-1393118-8
KUP-14D15-12			12VDC			1-1393118-3
KUP-14D15-24			24VDC			1-1393118-4
KUP-14D15-48			48VDC			1-1393118-7
KUP-14D15-110			110VDC			1-1393118-2
KUP-14D25-24			24VDC		Socket mount w/ test button	2-1393118-3
KUP-14D35-24					Socket mount w/ indicator lamp	2-1393118-7
KUP-14D35-110			110VDC			2-1393118-6
KUP-14D35F-110		AgCdO w/ Au flash				2-1393118-9
KUP-14D45-110		AgCdO			Socket mount w/ test button, indicator lamp	3-1393118-1
KUP-14D55-12			12VDC		Bracket mount case	3-1393118-7
KUP-14D55-24			24VDC			3-1393118-8
KUP-17A19-120	4 form C, 4 CO		120VAC	2.79mm (.110in) QC	Socket mount, plain case	4-1393118-2
KUP-17A55-24			24VAC		Bracket mount case	4-1393118-6
KUP-17D19-24			24VDC		Socket mount, plain case	5-1393118-0
KUP-17D55-24			24VDC		Bracket mount case	5-1393118-3

08-2011, Rev. 0811
www.te.com
© 2011 Tyco Electronics Corporation,
a TE Connectivity Ltd. company

Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

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.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP