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KHA Series Panel Plug-in Relay

- Compact package
- **■** Two and four pole form C contact arrangements
- Polycarbonate or nylon dust cover
- Various mounting configurations
- Indicator lamp and push-to-reset options available
- Various contact materials available for specific load requirements



Typical applications

Industrial sewing/stitching machines, fitness, elevators, pumps, robotics, solar panels.

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

2 form C (2CO), 4 form C (4CO)
240VAC
1-5A
Ag, AgCdO, Au-AgNi,
Au overlay Ag, Au diffused Ag
Single contact or bifurcated crossbar
100mA, 12VDC
300mA, 12VDC
10mA, 12VDC
r) Dry circuit
50mA, 12VDC
100mΩ
ed Ag 200mΩ
360 ops./hour
13/6ms

gs	
Load	Cycles
	gs Load

UL 508 5A, 120VAC, general purpose Ag 2.5A, 240VAC, general purpose 1/10HP, 120/240VAC 180VA, 250VAC, pilot duty 42VA, 28VDC, pilot duty 5A, 120VAC, general purpose AgCdO 2.5A, 240VAC, general purpose 1/10HP, 120/240VAC 180VA, 250VAC, pilot duty 42VA, 28VDC, pilot duty 5A, 240VAC, general purpose 5A, 28VDC, resistive Au-AgNi 2A, 120VAC, resistive 1A, 120VAC Au overlay Ag 1A, 30VDC 5A, 120VAC, general purpose Au diffused Ag

Au diffused Ag 5A, 120VAC, general purpose 2.5A, 240VAC, general purpose 1/10HP, 120/240VAC 180VA, 250VAC, pilot duty

42VA, 28VDC, pilot duty

Note: The relay should only carry ≤15A continuously (all poles combined). Mechanical endurance $10x10^6$ ops.

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

Coil	sions, DC coil Rated	Operate	ReleaseCoil	Rated coil
code	voltage	voltagevoltage	resistance	power
	VDC	VDC	Ω±10%	mW
5	5	3.75	32	800
6	6	4.5 40		900
12	12	9.0 160		900
24	24	18.0 690		850
48	48	36.0	2600	900
110	110	82.5	11000	1100
	220/240	Use 110V relay with series dropping		
		5\	W resistor of 11KG	2

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	10.5	1.2
12	12	10.2	43	1.2
24	24	20.4	160	1.25
48	48	40.8	668	1.2
120	120	102.0	3900	1.35
240	240	204.0	12000	1.5

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

1000V _{ms}
1500V _{ms}
1500V _{ms}
1500V _{ms}

100MΩ at 500VDC

Other Data	
Material compliance: EU RoHS/EI	V, China RoHS, REACH, Halogen content
refer to the F	Product Compliance Support Center at
www.te.com	n/customersupport/rohssupportcenter
Ambient temperature	-45°C to 70°C

Category of environmental protection IEC 61810 RTI - dust protected



KHA Series Panel Plug-in Relay (Continued)

Other Data (continued)	
Terminal type	solder/plug-in .105" (2.67mm),
	PCB-tht .112" (2.84mm)
Weight	45g
Packaging/unit	tray/50 pcs., box/250pcs.

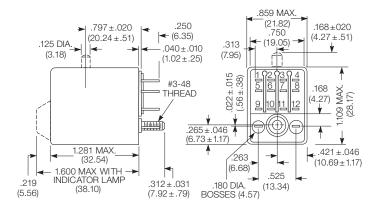
Accessories	
For details see datasheet	Sockets and Accessories, KHA Relays

Product Code	Description
27E894	DIN socket (use 20C426 clip)
27E166	Panel/track mount socket (use 20C297 clip)
27E006	Solder/grounding socket (use 20C217 clip)
27E007	PCB/grounding socket (use 20C217 clip)

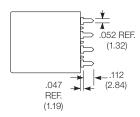
NOTE: Relays with contact current <50mA are not recommended for use in sockets.

Dimensions

KHAU and KHAX types

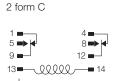


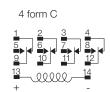
PCB terminals
KHAE and KHAF types



Printed circuit terminal thickness .022 (.558)

Terminal assignment

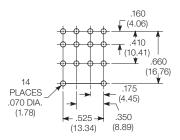




Polarity shown for LED indicator

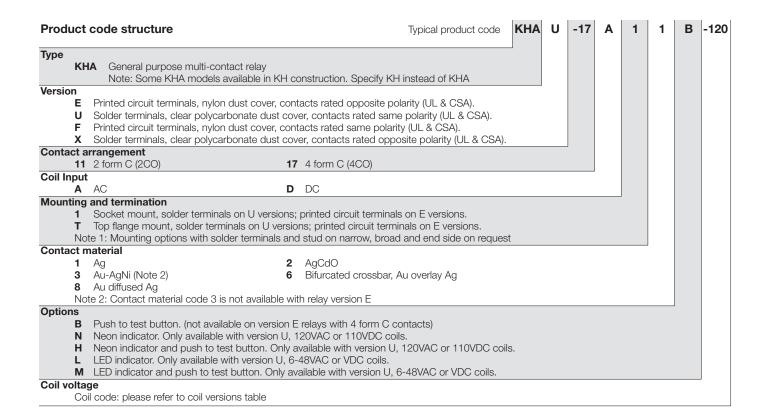
PCB layout

Bottom view on solder pins 4 pole version





KHA Series Panel Plug-in Relay (Continued)



Product Code	Arrangement	Contact Material	Coil	Terminals	Options	Part Number
KHAU-11A11-120	2 form C, 2 CO	Ag	120VAC	Solder/Plug-in	None	1-1393122-0
KHAU-11D11-24	2 101111 0, 2 00	7.5	24VDC	Goradii iag iii	110110	1-1393122-5
KHAE-17D12-24	4 form C, 4 CO	AqCdO		PCB		1393122-1
KHAU-17A11-12		Ag	12VAC	Solder/Plug-in		1-1393122-9
KHAU-17A11-24		J	24VAC	Solder		2-1393122-1
KHAU-17A11-120			120VAC			2-1393122-0
KHAU-17A11N-120					Indicator	2-1393122-6
KHAU-17A12-120		AgCdO			None	2-1393122-8
KHAU-17A13-120		Au-Ag-Ni				3-1393122-6
KHAU-17A16-24		Bifurcated, Au overlay Ag	24VAC			3-1393122-8
KHAU-17A16-120		Ag	120VAC			3-1393122-7
KHAU-17A18-120		Au diffused Ag				3-1393122-9
KHAU-17D11-6		Ag	6VDC			4-1393122-7
KHAU-17D11-12			12VDC			4-1393122-3
KHAU-17D11-24			24VDC			4-1393122-4
KHAU-17D11-48			48VDC			4-1393122-5
KHAU-17D11-110			110VDC			4-1393122-2
KHAU-17D12-12		AgCdO	12VDC			5-1393122-5
KHAU-17D12-24			24VDC			5-1393122-7
KHAU-17D12-48			48VDC			5-1393122-8
KHAU-17D12-110			110VDC			5-1393122-4
KHAU-17D16-12		Bifurcated, Au overlay Ag	12VDC			7-1393122-0
KHAU-17D16-24			24VDC			7-1393122-1
KHU-17A11N-120		Ag	120VAC		Indicator, Old Const.	2-1393123-8
KHU-17D11-12			12VDC		Old Construction	4-1393123-0
KHU-17D12-24		AgCdO	24VDC			4-1393123-8