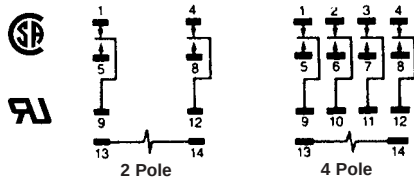




KHA Series

Wiring Diagrams



General purpose miniature relays for various applications including process control, photo copies and data processing. Smoke gray polycarbonate dust cover. UL recognized, CSA certified. *Order sockets and spring separately this page.*

Contact Ratings for KHA/KHS/KHU Series Relays

Contact Suffix	Material	Resistive Rating	
		Minimum	Maximum
1	Silver	100 mA@12 VAC/12 VDC	3 A @ 120 VAC/28 VDC
2	Silver-cadmium oxide	500 mA@12 VAC/12 VDC	5 A @ 120 VAC/28 VDC
3	Gold-silver-nickel	10 mA@12 VAC/12 VDC	2 A @ 120 VAC/28 VDC
6	Bifurcated cross bar gold overlay silver	Dry circuit	1 A @ 120 VAC/28 VDC
8	Gold-diffused silver	50 mA @ 12VAC/12VDC	3 A @ 120 VAC/28 VDC

NOTE: Relays should carry no more than 15 amps continuously for all poles combined.

DPDT Silver Contacts

Mfr.'s Type	Input Volts	Res. Ohms	1-99	100-999	1K+
KHAU-11A11-120	120 VAC	3900	7.52	5.64	4.51
KHAU-11D11-24	24 VDC	650	6.60	4.95	3.96

4PDT Silver Contacts

KHAU-17A11-12	12 VAC	43	7.52	5.64	4.51
KHAU-17A11-24	24 VAC	160	7.52	5.64	4.51
KHAU-17A11-120	120 VAC	3900	7.88	5.91	4.73
KHAU-17D11-6	6 VDC	40	6.84	5.13	4.10
KHAU-17D11-12	12 VDC	160	6.84	5.13	4.10
KHAU-17D11-24	24 VDC	650	6.84	5.13	4.10
KHAU-17D11-48	48 VDC	2600	7.01	5.26	4.21
KHAU-17D11-110	110 VDC	11000	8.23	6.17	4.94

4PDT Silver-Cadmium Oxide Contacts

KHAU-17A12-120	120 VAC	3900	7.88	5.91	4.73
KHAU-17D12-12	12 VDC	160	6.84	5.13	4.10
KHAU-17D12-24	24 VDC	650	6.84	5.13	4.10
KHAU-17D12-48	48 VDC	2600	7.01	5.26	4.21
KHAU-17D12-110	110 VDC	11000	8.23	6.17	4.94

4PDT Gold-Silver-Nickel Contacts

KHAU-17A13-120	120 VAC	3900	36.75	27.56	22.05
KHAU-17D13-24	24 VDC	650	35.75	26.81	21.45

4PDT Silver Contacts, With Neon Lamp

KHAU-17A11N-120	120 VAC	3900	10.99	8.24	6.59
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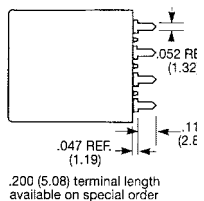
4PDT Gold-Diffused Silver Contacts

KHAU-17A18-120	120 VAC	3900	8.64	6.48	5.18
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4PDT Bifurcated Cross Bar, Gold Overlay Silver Contacts

KHAU-17A16-120	120 VAC	3900	8.87	6.65	5.32
KHAU-17A16-24	24 VAC	160	8.60	6.45	5.16
KHAU-17D16-12	12 VDC	160	8.83	6.62	5.30
KHAU-17D16-24	24 VDC	650	8.83	6.62	5.30

KHAE Series 5-Amp PC Board Relays



Printed Circuit Terminals, Nylon Dust Cover, 4PDT, Silver-Cadmium Oxide Contacts.
Resistive Rating: 500mA @ 12VAC/12VDC min.; 5A @ 120VAC/28VDC max.
Dimensions: 1.1"L x .86"W x 1.3".

Mfr.'s Type	Coil Input Volts	Coil Res. Ohms	1-99	100-999	1K+
KHAE-17D12-24	24 VDC	650	8.75	6.56	5.25

KHS & KHU Series

KHS Series Now part of Magnecraft Struthers-Dunn!

KHU Series clear polycarbonate dust cover; **KHS Series** hermetically sealed steel case. See contact ratings chart at left. (Contact is last digit in part number, ie. KHS-17D11). UL Recognized for Class 1, Division 2 Hazardous Locations. Suffix "N": neon lamp. Solder terminals. 1.281"H x .910"W x 1.156"D. Order KH sockets separately.



KHS Series

DC Operation, Hermetically Sealed

Mfr.'s Type	Coil Input VDC	Coil Ohms	Contact Code	1-99	100-999
KHS-17D11-12	12	160	1	42.65	31.99
KHS-17D11-24	24	650	1	42.65	31.99
KHS-17D11-48	48	2600	1	43.25	32.44
KHS-17D11-110	110	11000	1	48.90	36.68
KHS-17D12-12	12	160	2	42.65	31.99
KHS-17D12-24 *	24	650	2	42.65	31.99
KHS-17D13-24 *	24	650	3	111.70	83.78

* Not CSA certified.

DC Operation, Clear Polycarbonate Cover

KHU-17D11-5	5	28	1	21.16	15.87
KHU-17D11-6	6	40	1	21.16	15.87
KHU-17D11-12	12	160	1	21.16	15.87
KHU-17D11-24	24	650	1	21.16	15.87
KHU-17D11-48	48	2600	1	22.05	16.54
KHU-17D11-110	110	11000	1	26.20	19.65
KHU-17D12-12	12	160	2	21.16	15.87
KHU-17D12-24	24	650	2	21.16	15.87
KHU-17D16-24	24	650	6	24.62	18.47
KHU-17D18-24	24	650	8	22.68	17.01

AC Operation, Hermetically Sealed

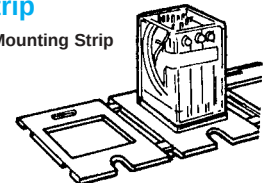
KHS-17A11-24	24	160	1	46.50	34.88
KHS-17A11-120	120	3900	1	46.50	34.88
KHS-17A12-120	120	3900	2	46.50	34.88
KHS-17A13-120	120	3900	3	115.34	86.51

AC Operation, Clear Polycarbonate Cover

KHU-17A11-12	12	43	1	25.04	18.78
KHU-17A11-24	24	160	1	25.04	18.78
KHU-17A11-120	120	3900	1	25.04	18.78
KHU-17A11N-120	120	3900	1	31.29	23.47
KHU-17A12-120	120	3900	2	25.04	18.78
KHU-17A13-120	120	3900	3	72.56	54.42
KHU-17A16-120	120	3900	6	28.19	21.14
KHU-17A18-120	120	3900	8	26.25	19.69

Aluminum Mounting Strip

Aluminum Mounting Strip



37D633 will mount eight solder terminal sockets in one length of aluminum strip measuring 10.97" x 2.25" x .062" (278.6 x 57.15 x 1.57)

Mfr.'s Type	1-99	100-999	1K+
37D633	5.35	4.01	3.21

Sockets and Spring For KH and KHA Series



27E007



27E894



Solder terminal **Type 27E006** includes grounding provision. **Type 27E007** is PC terminal socket with grounding provision. Hold-down spring **Type 20C217** used for **27E007**. Screw terminal **Type 27E166** rated 5 A. Molded, glass-filled polyester. DIN rail mount polyamide **Type 27E894** meets UL94V-0, 7 A rating. Snaps on track without tools. Hold-down spring **Type 20C297** is used with **Types 27E166** and **27E894**. Order **KHA Series** mounting strip separately this page.

Mfr.'s Type	Description - in.	Grndg. Prov.	1-99	100-999	1K+
27E006	4PDT Solder terminal .375"	Yes	1.70	1.28	1.02
27E007	4PDT PC terminal .218"	Yes	1.59	1.19	.95
27E023	4PDT PC terminal .218"	No	1.38	1.04	.83
27E166	4PDT Screw terminal	...	12.00	9.00	7.20
27E894	DIN Mount 4PDT screw terminal	...	14.55	10.91	8.73
20C297	Hold down spring	...	.46	.35	.28