

KRF

• Industry standard octal-type termination for quick installation. • Contact arrangements from 1 Form C (SPDT) to 3 Form C (3PDT). · Indicator lamp and push-to-test options available on certain models. • The KRPA is the automated manufactured version of the KRP.

KRPA

Features



KRPA, KRP, KA, KR series

5 to 10 Amp **General Purpose Relay**

A File E29244, E22575 File LR15734

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Coil Data @ 25°C

		Nominal Power	Maximum Power		
KRP	P AC 2VA Enclo		Enclosed Models - 4VA		
KRPA	DC	1.2W	Enclosed Models - 3W		
КА	AC	2VA	Open Models - 4VA		
	DC	125mW per movable arm	Open Models - 4W		

Contact Data @ 25°C

Arrangements: See Ordering Information Table.

Materials: Silver or silver-cadmium oxide, with or without gold flashing. Expected Life: 10 million operations min., mechanical; 100,000 operations min. @ rated loads.

KA, KRP, KRPA	UL/CSA Contact Ratings @ 25°C				
Contact Code	Arrangement	Contact Rating			
Y (Silver)	1, 2, 3 Poles	5A @ 120VAC 3A @ 240VAC 1/10HP @ 120VAC 1/6HP @ 240VAC			
G&N (Silver-Cad. Oxide)	1, 2, 3 Poles	10A @ 240VAC 1/2 HP @ 240VAC 1/3HP @ 120VAC			

KRP KRPA **Factory Ratings**

Contact Code Arrangement		Contact Rating		
Y	1, 2, 3 Poles	5A @ 28VDC, 120VAC, 80% PF		
G&N	1, 2, 3 Poles	10A @ 28VDC, 120VAC, 80% PF 6A @ 250VAC		

KA UL Contact Ratings

Contact Code	Series	Contact Ratings
Y	KA1	5A @ 120VAC, 3A @ 240VAC, 1/10 HP @ 120VAC, 1/6 HP @ 240VAC
G	KA ²	10A @ 120VAC, 6A @ 240VAC 1/6 HP @ 120VAC, 1/3 HP @ 240VAC

¹Listed by C.S.A. for 5A @ 120VAC 80% PF

²Listed by C.S.A. for 10A @ 120VAC 80% PF Note: See KRPA, KRP, KA Ordering Information table.

Initial Dielectric Strength

Between Open Contacts: 500V rms. Between All Elements: 1,500V rms.

Duty Cycle: Continuous.

Initial Insulation Resistance: KRP, KRPA - 1000 Megohms, min. KA - 100 Megohms, min.

Coil Data @ 25°C

	Nominal Voltage	DC Resistance (Ω) ±10%	Nominal Coil Current (mA)
DC Coils	6 12 24 48 110	32 120 472 1,800 10,000	188 100 51 26.6 11.5
AC Coils	220 6 12 24 120 240	Use 110V relay with 10,000 6 24 85 2,250 9,110	<u>Ω 5W Resistor in series</u> 335 168 84 17.5 8.75

Operate Data @ 25°C

Must-Operate Voltage:

DC: 75% or less of nominal voltage. AC: 85% or less of nominal voltage.

Operate Time (Excluding Bounce):

15 milliseconds typical @ nominal voltage.

Release Time (Excluding Bounce): 10 milliseconds typical @ nominal voltage.

Environmental Data

Temperature Range: Open Models: AC: -45°C to +70°C. DC: -45°C to +85°C. Enclosed Models: AC: -45°C to +55°C. DC: -45°C to +70°C.

Mechanical Data

Termination: Open Models: Solder terminals. Enclosed Models: Octal-type plug. Enclosure: Transparent polycarbonate. Weight: KA: 1.7 oz. (48.2g) approximately. KRPA, KRP: 3.0 oz. (85g) approximately.

Dimensions are in inches over (millimeters) unless otherwise specified.

			Revised 9-03				P &
	Typical Part No.		KRPA	-5	Α	Y	-120
11 = 2 Form	C (DPDT)	14 = 3	Form C (3PDT)				
					-		
licator Lamp Option	ו						
KRP	KA						
, Y, G, N,	Y, G,						
de, no indicator lamp							
	licator Lamp Optior KRP , Y, G, N, lamp de, no indicator lamp	11 = 2 Form C (DPDT) licator Lamp Option: KRP KA , Y, G, N, Y, G,	III = 2 Form C (DPDT) 14 = 3 Iicator Lamp Option: KRP KA , Y, G, N, Y, G, Iamp de, no indicator Iamp	11 = 2 Form C (DPDT) 14 = 3 Form C (3PDT) licator Lamp Option: KRP KA , Y, G, N, y, G, N, Y, G,	11 = 2 Form C (DPDT) 14 = 3 Form C (3PDT) licator Lamp Option: KRP KA , Y, G, N, Y, G, lamp de, no indicator lamp	and a construction 11 = 2 Form C (DPDT) 14 = 3 Form C (3PDT) licator Lamp Option: KRP KA , Y, G, N, Y, G, N, Y, G, lamp de, no indicator lamp	$11 = 2$ Form C (DPDT) $14 = 3$ Form C (3PDT) licator Lamp Option: \overline{KRP} KA , Y, G, N, Y, G, lamp de, no indicator lamp

*Indicator Lamp not available on 25-90V coils. Only 120-240VAC and 110VDC models are UL recognized and CSA certified.

Our authorized of	distributors are more l	ikely to stock the follow	wing items for immed	iate delivery.
KA-5AG-120	KRP-11AN-24	KRPA-5AG-120	KRPA-11AY-240	KRPA-14AY-240
KA-5AY-120	KRP-11AN-120	KRPA-5AY-120	KRPA-11DG-6	KRPA-14DG-12
KA-5DG-6	KRP-11AY-120	KRPA-5DG-6	KRPA-11DG-12	KRPA-14DG-24
KA-5DG-12	KRP-11DG-12	KRPA-5DG-12	KRPA-11DG-24	KRPA-14DG-48
KA-5DG-110	KRP-11DG-24	KRPA-5DG-24	KRPA-11DG-48	KRPA-14DG-110
KA-11AG-120	KRP-11DG-48	KRPA-5DY-12	KRPA-11DG-110	KRPA-14DN-24
KA-11AY-6	KRP-11DG-110	KRPA-5DY-24	KRPA-11DN-12	KRPA-14DY-24
KA-11AY-24	KRP-11DG-125	KRPA-11AG-6	KRPA-11DN-24	
KA-11AY-120	KRP-11DN-12	KRPA-11AG-12	KRPA-11DN-110	
KA-11DG-12	KRP-11DN-24	KRPA-11AG-24	KRPA-11DY-12	
KA-11DG-24	KRP-11DY-24	KRPA-11AG-120	KRPA-11DY-24	
KA-11DG-110	KRP-14AG-120	KRPA-11AG-240	KRPA-14AG-12	
KA-14AG-120	KRP-14AG-240	KRPA-11AN-12	KRPA-14AG-24	
KA-14AY-120	KRP-14AN-120	KRPA-11AN-24	KRPA-14AG-120	
KA-14DG-24	KRP-14AY-120	KRPA-11AN-120	KRPA-14AG-240	
KA-14DG-110	KRP-14DG-12	KRPA-11AN-240	KRPA-14AN-24	
KRP-5AG-120	KRP-14DG-24	KRPA-11AY-6	KRPA-14AN-120	
KRP-11AG-24	KRP-14DG-110	KRPA-11AY-12	KRPA-14AN-240	
KRP-11AG-120	KRP-14DN-24	KRPA-11AY-24	KRPA-14AY-24	
KRP-11AG-240	KRPA-5AG-24	KRPA-11AY-120	KRPA-14AY-120	



KRP-3-H

Features

- 1 Form X (SPST NO DM) contact rating of 20A.
- Heavy copper alloy movable contact arms.
- Twin silver-cadmium oxide contacts.
- Many uses in automation controls and other applications requiring high current switching.

Contact Data @ 25°C

Arrangement: 1 Form X (SPST - NO - DM). Ratings: UL Rating: 20A @ 120VAC, 3/4 HP @ 120VAC.

Factory Rating: 20A @ 120VAC, 3/4 HF @ 120VAC. Factory Rating: 20A @ 120VAC, 80% PF; 1 HP @

120/240VAC.

Material: Twin, silver-cadmium oxide.

Expected Life: 2.5 million operations min., mechanical. 100,000 operations at rated contact load.

Initial Dielectric Strength

Between Open Contacts: 500V rms, 60 Hz. between all elements.

KRP-3-H series

20 Amp Small AC or DC Relays

AJ File E22575

Coil Data @ 25°C

See chart on page 105. Nominal Power: DC Coils: 1.2W AC Coils: 2.0VA Initial Insulation Resistance: 1,000 megohms.

Operate Data @ 25°C

 Must-Operate Voltage:
 DC: 75% of nominal voltage.

 AC: 85% of nominal voltage.

 Operate Time:
 15 milliseconds approximate (Excluding Bounce).

 Release Time:
 10 milliseconds approximate (Excluding Bounce).

Environmental Data

Temperature Range: Enclosed Models: AC: -45°C to +55°C. DC: -45°C to +70°C.

Mechanical Data

Mounting: Socket mounting. Termination: Octal-type plug. Enclosure: Polycarbonate enclosure with octal-type mounting. Weight: 2 oz. (57g) approximately.

Ordering Information

Ordering Information Typical Part No. ►	KR	Р	-3	D	Н	-12
1. Basic Series: KR						
 2. Type: P = Enclosed (20 amp models available only with Contact Arrangement 3 and Mat 	erial H.)					
3. Contact Arrangement: 3 = 1 Form X (SPST - NO - DM)			-			
4. Coil Input: A = AC D = DC						
5. Contact Material & Rating: H = Silvercadmium oxide, 1/4" (6.35mm) dia., 20 amps.						
6. Coil Voltage: To 240VAC, 50/60 Hz. or 110VDC.						

Our authorized distributors are more likely to stock the following items for immediate delivery.

KRP-3AH-120 KRP-3DH-24 KRP-5AG-120

tyco Electronics

Outline Dimensions

KA Series



Tolerances on .XX Decimals \pm .02 (\pm .5) Unless Otherwise Specified Tolerances on .XXX Decimals \pm .005 (\pm .13) Unless Otherwise Specified

KR Series Enclosures

Type "P" Clear Dust Cover For KRPA and KRP



For KRP3-H



Hold-Down Spring 20C176 KRPA & KRP 20C206 KAP and KRP3



Durable stainless steel spring can be moved aside for relay removal or installation. Mounts with same machine screws or rivets that secure socket to chassis. Two .156" (3.96mm) dia. holes required.



Sockets For KRP, KRPA Series Relays

The following sockets are normally maintained in stock for immediate delivery.

Screw Terminal, DIN Rail Snap-Mount Sockets (Use with mounting track 24A110)







Terminal

Location Top View

Sockets have M3.5 screw terminals which accept up to two #12 AWG wires. Rated 10 amps @ 300VAC and meets UL 94V-0.

Screw Terminal Sockets

27E122 10A, 300VAC 8-pin



27E123 10A, 300VAC 11-pin

