



General Description

The KR-6161 20 Amp relay is a mechanically latching output device. It receives a polarized signal from room switches or control devices for On/Off operation of lighting circuit or other electrical loads.

Features

- Two-wire relay used for monitoring and control
- Manual operation lever with On/Off mechanical indicators built-in for easy maintenance for override operation
- Screw terminals on load and control side
- Rated for 240,000 operation at 20 cpm
- Operate the relay with input of 18-30 V pulsed DC or 24 Vac half-wave nominal



Part Number	Number of Poles	UL Rating	CSA Rating	Isolated Auxiliary Contact
KR-6161	1	20 A/300 Vac	20 A/347 Vac	N/A

Specifications

Electrical Life	30,000 Operations or more at full load, at 20 cpm
Mechanical Life	6000 Operation or more at 20 cpm
Inrush Capability	2000 A
Max. Operating Speed	20 cpm at Nominal Load
Operated Time	Approx. 20 ms
Released Time	Approx. 20 ms
Initial Insulation Resistance	More than 100 MΩ at 500 Vdc
Dielectric Strength	Between Open Contacts 1694 V for one minute Between Contacts and Coil 2500 V for one minute
Ambient Temperature	-30 °C to +50 °C (-22 °F to +122 °F)
Temperature Rise (at normal voltage)	Max. 65 °C (149 °F)

Contacts

Arrangement	SPLT, Latching for WR-6161-81 and WR-6161-381 DPST, Latching for WR-6172-81		
Contact Material	7/32" dia, Silver Alloy		
Rating	UL Rating		
General Use	KR-6161	20 A 30 Vac	20 A 347 Vac
	Tungsten	2400 W 120 Vac	2400 W 120 Vac
	KR-6161	20 A 300 Vac	20 A 347 Vac
	Electric Discharge Lamp	1/2 HP at 110-125 Vac	1/2 HP at 110-125 Vac
	Motor Load	1-1/2 HP at 220-227 Vac	1-1/2 HP at 220-250 Vac

Coil	
Operating Voltage	18 V to 30 V Pulsed dc, Reversible Polarity 18 V to 30 V Half-Wave Rectified ac, Reversible Polarity
Minimum Input Duration	8 ms
Nominal Operating Current	800 mA *
* Simultaneous operation of multiple units requires 350 mA times the number of the units operated simultaneously.	
NOTE: Continuous input power supply to the relay coil prevents the operation lever from being switched manually.	

Mechanical Requirements		
Terminal Capacity	Main Contact Terminal	AWG # 12 to # 14 Copper Wire
	Input Terminal and Auxiliary Contact Terminal	AWG # 16 to # 20 Copper Wire
Terminal Tightening Torque	Main Contact Terminal	6.9 to 10.4 in-lbs
	Input Terminal and Auxiliary Contact Terminal	4.3 to 6.9 in-lbs

Ordering Information

27957	KR	-6161
27958	KR	-9910
Part No.	Relay	Heavy Duty HID Relay



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