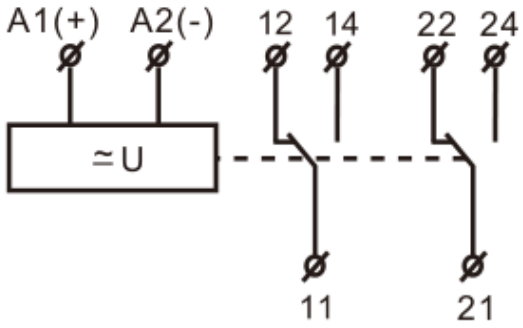
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RV8-SV LCD Voltage Monitoring Relay

NewTrend RV8-SV displays the monitored voltage on an LCD and provides independently adjustable overvoltage and undervoltage thresholds, recovery values and trip delays. Set power-up and reset delays from 0.5 to 300 seconds, with automatic fault reset selectable ON or OFF. The two-module DIN-rail relay uses AC/DC 110-240V supply and has two SPDT outputs rated 8A AC-1.

Parameter	Specification
Model	RV8-SV
Function	Overvoltage and undervoltage monitoring
Display / measurement	LCD; true RMS
Supply / monitoring terminals	A1(+)-A2(-)
Rated control supply	AC/DC 110-240V
Supply frequency	45-65Hz AC; 0Hz DC
Operation voltage range	50-350V, per manual
Supply burden	AC maximum 3VA
Measurement error	Maximum 1%
Overvoltage threshold	65-300V or OFF; 1V steps; factory 253V
Overvoltage recovery value	60-295V; 1V steps; factory 248V
Undervoltage threshold	65-300V or OFF; 1V steps; factory 187V
Undervoltage recovery value	70-305V; 1V steps; factory 192V
Voltage-fault trip delays	0.1-20 seconds; factory 2 seconds
Power-up delay	0.5-300 seconds; factory 0.5 seconds
Reset delay	0.5-300 seconds; factory 1 second
Fault reset	ON/OFF; factory ON
Setting constraint	With both protections enabled: U> at least 10V above U<
Output contacts	2 SPDT
Contact rating	8A (AC-1)
Switching voltage	250VAC / 24VDC
Operating temperature	-20 to +60 degrees C
Storage temperature	-35 to +75 degrees C
Mounting	DIN rail to EN/IEC 60715; 2 modules
Protection	IP40 front panel; IP20 terminals
Operating position	Any
Overvoltage category	III
Pollution degree	2
Maximum conductor size	Solid: 1 x 2.5mm2 or 2 x 1.5mm2; with sleeve: 1 x 2.5mm2 (AWG 12)
Terminal tightening torque	0.4Nm
Dimensions (native drawing)	90mm body height; 95mm overall; 36mm maximum width; 70mm depth
Weight	100g
Referenced standards	EN 60255-1; IEC 60947-5-1

Connections and operation

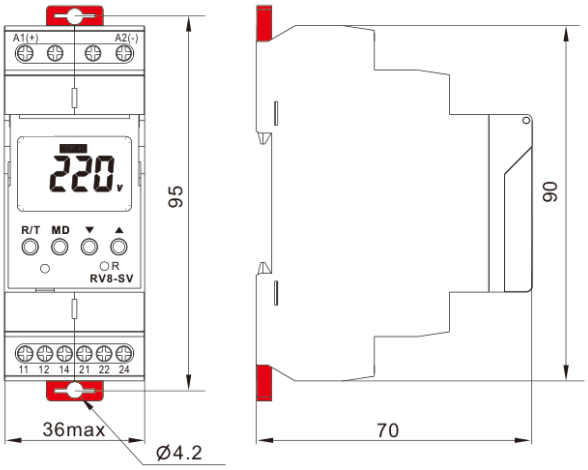


Set overvoltage and undervoltage thresholds and their respective recovery values. Either protection can be disabled with OFF; when both are enabled, the upper threshold must be at least 10V above the lower threshold.

Overvoltage and undervoltage trip delays are adjustable from 0.1 to 20 seconds. Power-up and reset delays are each adjustable from 0.5 to 300 seconds.

Automatic fault reset is selectable ON/OFF. The timing diagram shows the output and LCD indication through voltage excursions and recovery.

Dimensions and adjustment





Drawing reference: body height 90mm; overall height 95mm; width 36mm maximum; depth 70mm; fixing hole 4.2mm.

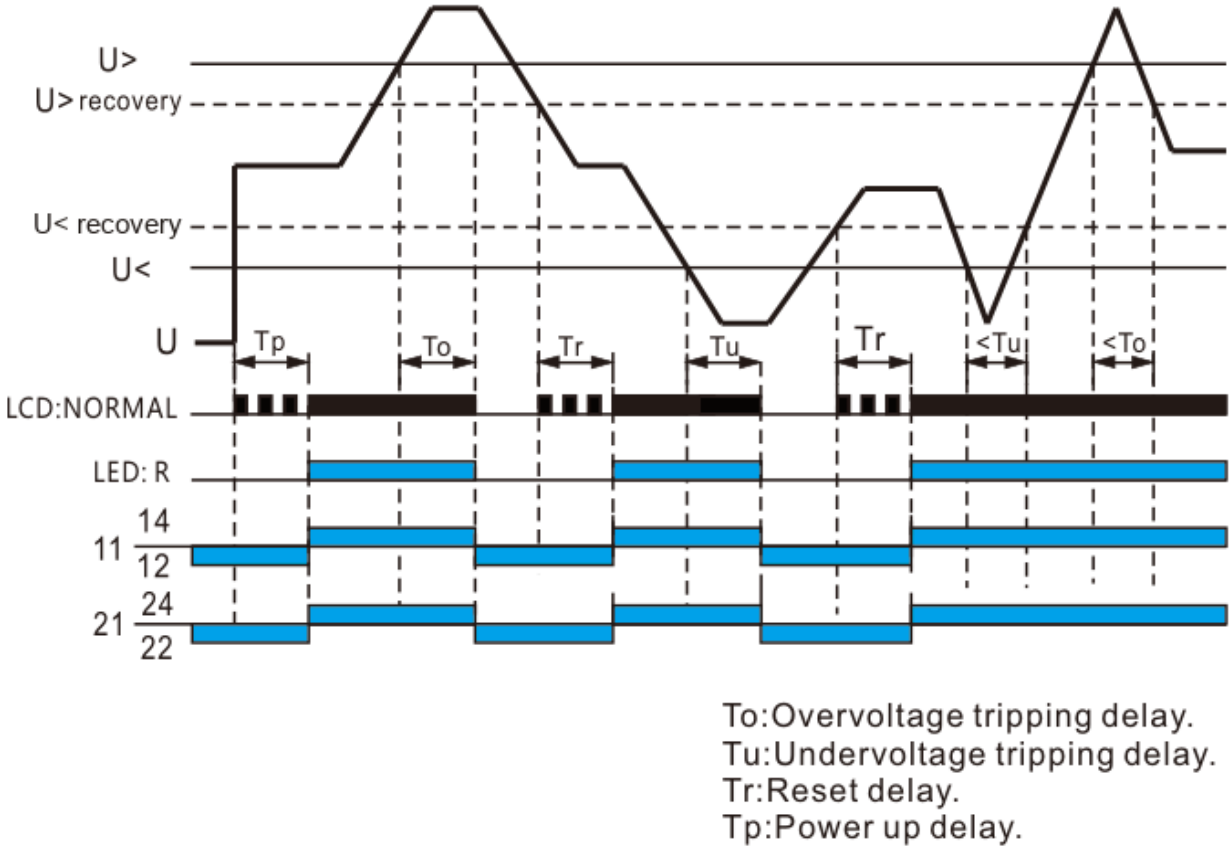
Dimensions from the native RV8-SV drawing; confirm the supplied housing version.

Hold MD for 3 seconds to enter the parameter menu. Use the up/down keys to adjust values; holding a key changes the value rapidly. Hold MD for 3 seconds to save and exit. A 60-second inactivity exit does not save changed values. With normal supply, press R/T for 0.5 second to test relay operation.

Installation

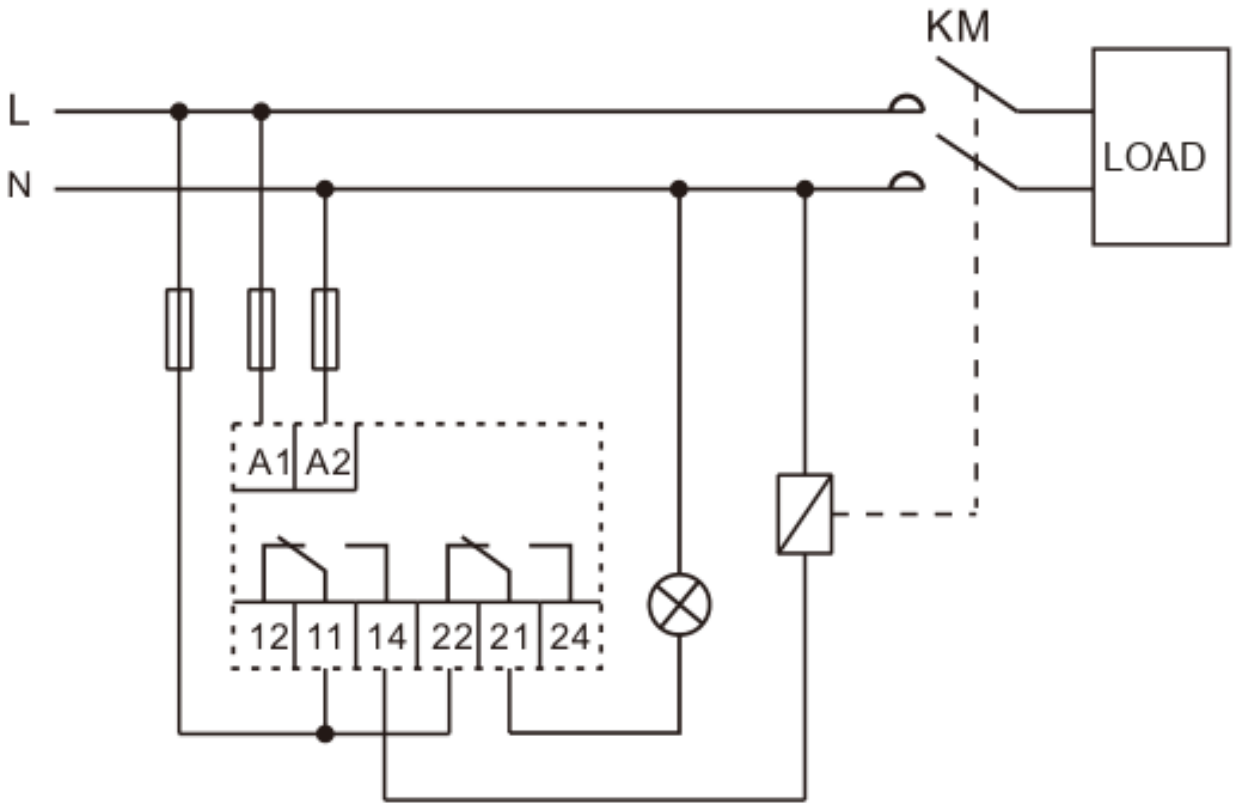
Installation and wiring must be performed by qualified electricians in accordance with applicable safety standards. Isolate the circuit before wiring and use the appropriate electrical-waste collection route.

Voltage faults, recovery and output sequence



To: overvoltage trip delay. Tu: undervoltage trip delay. Tr: reset delay. Tp: power-up delay. Shorter voltage excursions are shown as <To or <Tu.

Contactor-control reference circuit



Reference contactor-control circuit. Select contactors, protection, wiring and interlocking to suit the controlled loads.