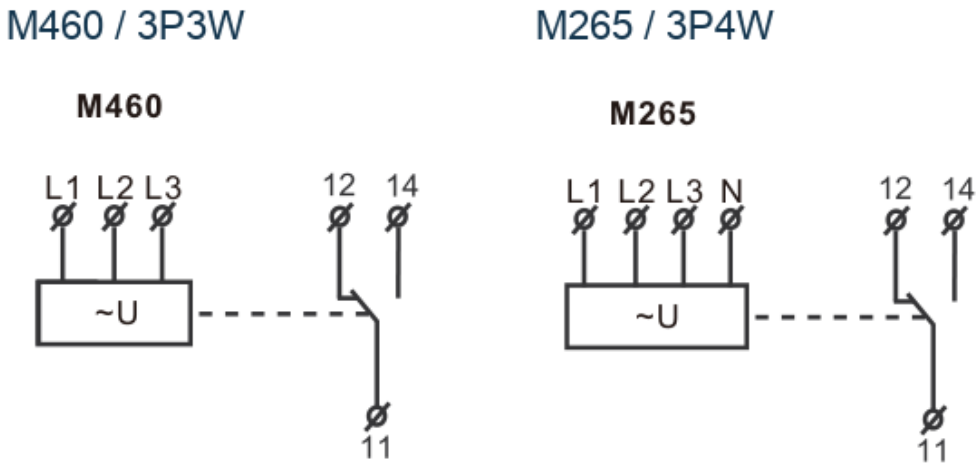
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RV8-03 Phase-Sequence And Phase-Failure Relay

NewTrend RV8-03 monitors phase sequence and phase failure in a three-phase control circuit. Choose the M460 three-wire version for AC 220-460V phase-to-phase systems or the M265 four-wire version for AC 127-265V phase-to-neutral systems. The 18mm DIN-rail relay provides 1 SPDT output contacts rated 10A (AC-1).

Parameter	Specification
Model	RV8-03
Function	Phase sequence and phase failure
Design	DIN-rail three-phase monitoring
Voltage-system versions	M460: 3P3W; M265: 3P4W with neutral
M460 rated voltage range	AC 220-460V, phase-to-phase
M265 rated voltage range	AC 127-265V, phase-to-neutral
M460 monitoring / supply terminals	L1-L2-L3 / L1-L2
M265 monitoring / supply terminals	L1-L2-L3-N / L1-N
Supply frequency	45-65Hz
Measurement	True RMS
M460 measuring range	176-552V
M265 measuring range	101-318V
Measurement error	Maximum 1%
Power-up delay	0.5 seconds
Reset time	1000ms
Temperature coefficient	0.05%/degree C at 20 degrees C
Supply / phase-state indication	Green LED
Output indication	Red LED
Output contacts	1 SPDT
Contact rating	10A (AC-1)
Switching voltage	250VAC / 24VDC
Minimum DC breaking power	500mW
Mechanical life	10,000,000 operations
Electrical life (AC-1)	100,000 operations
Operating temperature	-20 to +55 degrees C
Storage temperature	-35 to +75 degrees C
Mounting	DIN rail to EN/IEC 60715; 1 module
Protection	IP40 front panel; IP20 terminals
Operating position	Any
Overvoltage category / pollution degree	III / 2
Maximum conductor size	Solid: 1 x 2.5mm2 or 2 x 1.5mm2; with sleeve: 1 x 2.5mm2 (AWG 12)
Body dimensions	90 x 18 x 64mm
Weight	64g
Referenced standards	EN 60255-1; IEC 60947-5-1

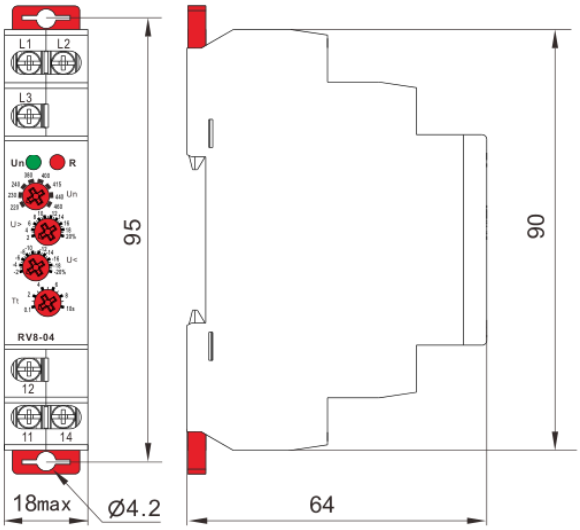
Connections and operation



The relay supervises the phase sequence and phase continuity; the native timing diagrams show output behavior during phase loss and reversed phase order.

Select the three-wire or four-wire hardware version when ordering. The supply and monitoring terminals differ between M460 and M265.

Dimensions and adjustment





Body: 90 x 18 x 64mm. Overall height: 95mm. Fixing holes: 4.2mm.

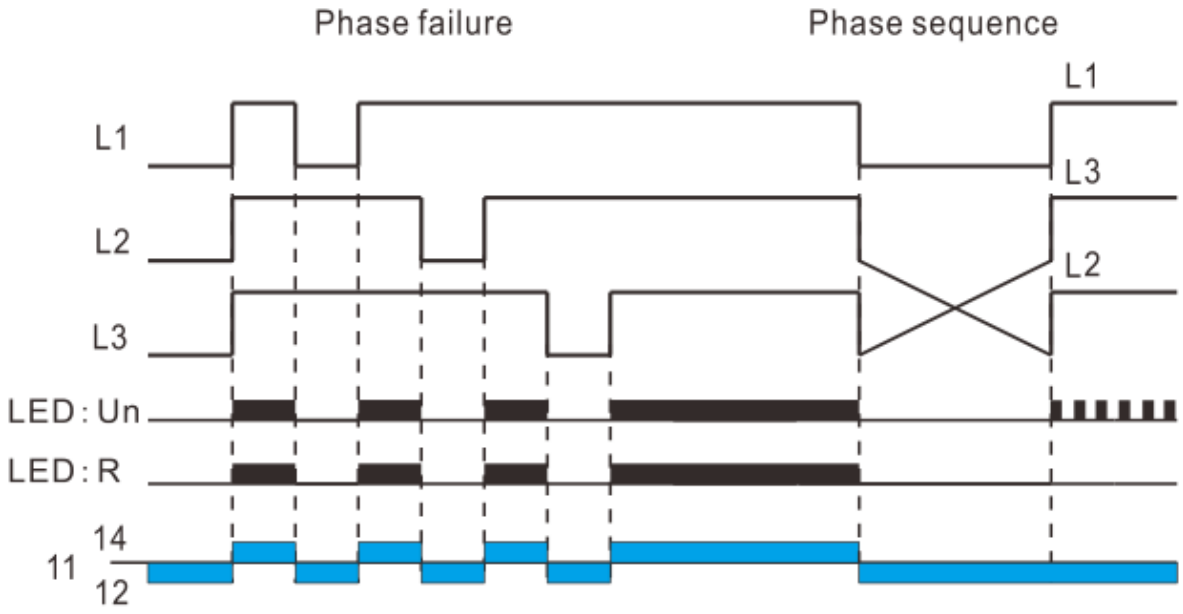
Common housing dimensions; RV8-04 front view shown. Product photograph shows 3P3W / AC 220-460V.

Connect the selected voltage-system version as shown: M460 monitors L1-L2-L3 and obtains supply from L1-L2; M265 monitors L1-L2-L3-N and obtains supply from L1-N. Use the output to control suitable external switching equipment. A supply-terminal phase loss can extinguish the function LED; do not interpret an unlit indicator as proof that the circuit is safe.

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.

Phase-failure and phase-sequence operation



M460: three-phase, three-wire monitoring. M265: three-phase monitoring with neutral. Un: supply indication. R: output state. The drawings show phase loss and reverse phase sequence.