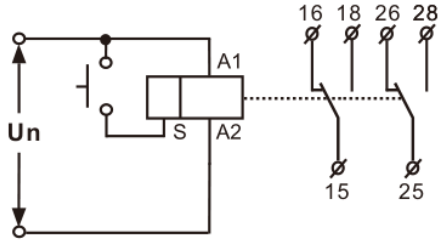
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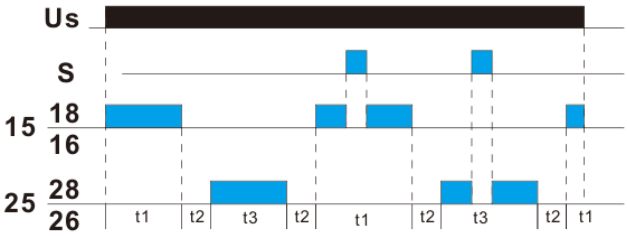
RT8-FR Forward And Reverse Control Timer Relay

NewTrend RT8-FR repeats a forward-stop-reverse-stop sequence for motor contactor control. Set forward time t1, stop time t2 and reverse time t3 independently using the digital display and two front buttons. Closing A1-S stops the active direction and pauses timing. Two SPDT outputs are rated 16A AC-1; the motor must use suitable contactors and interlocking.

Parameter	Specification
Model	RT8-FR
Output contacts	2 SPDT
A230 power input	AC maximum 6VA / 1.9W
Weight	W240: 82g; A230: 81g
Function	Forward-stop-reverse-stop cycling
Supply terminals	A1-A2
Control supply options	W240: AC/DC 12-240V; A230: AC 230V; 50-60Hz
Supply tolerance	-15% to +10%
W240 burden	AC 0.09-3VA / DC 0.05-1.7W
Time setting	Digital key setting; independent t1, t2 and t3
Adjustment range	0.1s-99days; ON; OFF
Time setting deviation	Maximum 1%
Repeat accuracy	0.2% of set value
Temperature coefficient	0.05%/degree C at 20 degrees C
Contact rating	16A, AC-1
Switching voltage	250VAC / 24VDC
Minimum DC breaking power	500mW
Output indication	Red LED
Mechanical life	10,000,000 operations
Electrical life (AC-1)	100,000 operations
Reset time	Maximum 200ms
Operating temperature	-20 to +55 degrees C
Storage temperature	-35 to +75 degrees C
Mounting	DIN rail to EN/IEC 60715
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)
Body dimensions	90 x 18 x 64mm
Referenced standards	EN 61812-1; IEC 60947-5-1

Connections and operation

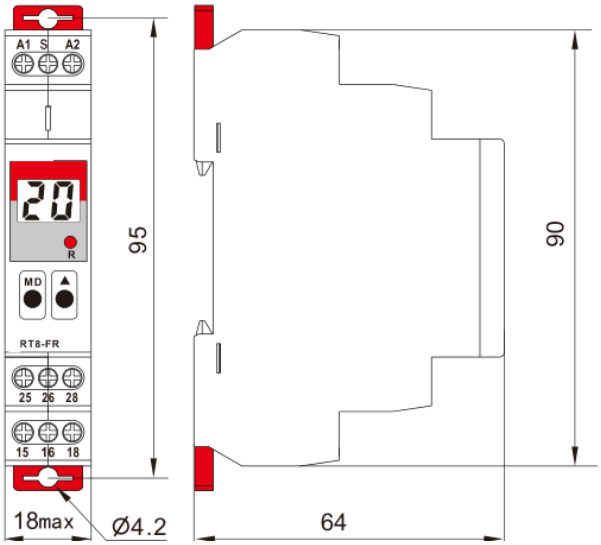




After power-up, 15-18 closes for forward interval t1, followed by the stop interval t2. Then 25-28 closes for reverse interval t3, followed by another stop interval t2; the cycle repeats.

Closing A1-S forces the motor-control outputs off and pauses timing. The timing chart defines the stop-input behavior.

Dimensions and adjustment





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

RT8-FR housing dimensions.

Short-press MD to select t1, t2 and t3; use UP to change the value. Hold MD for 3 seconds to enter or leave time-base settings. Time bases are S, M, H, D, 0.1S, 0.1M, 0.1H and 0.1D; choose count-up or count-down display. With no key operation for 60 seconds, setting mode exits. Use the selected range and value to set 0.1 seconds to 99 days.

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.

Front-button timing settings

Set the three interval values

From the running display, short-press MD to select t1 (forward), t2 (stop) and t3 (reverse). Press UP to change the value; holding UP changes it rapidly. Values wrap after 99.

Set the time base

Hold MD for 3 seconds to enter or exit the function settings. Select a time base separately for t1, t2 and t3: S, M, H, D, 0.1S, 0.1M, 0.1H or 0.1D.

Choose the display direction

Choose count-up or count-down timing display in the display-mode setting.

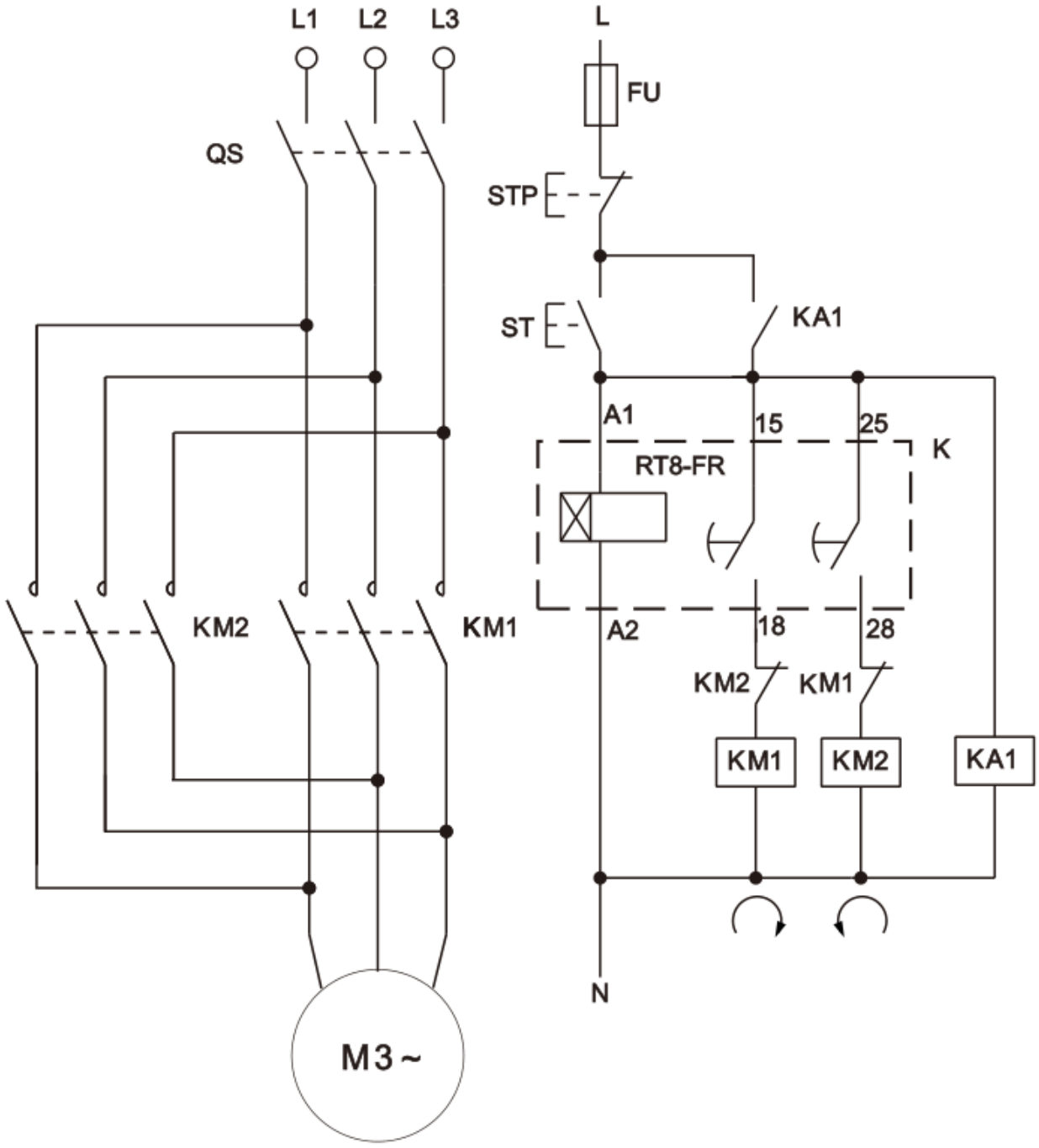
Save or exit

Hold MD for 3 seconds to save and leave the settings. With no key operation for 60 seconds, the relay exits the setting mode.

Stop / pause input

Closing A1-S forces the active motor-control output off and pauses timing. Follow the operating waveform and use interlocked contactors.

Forward/reverse contactor reference circuit



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