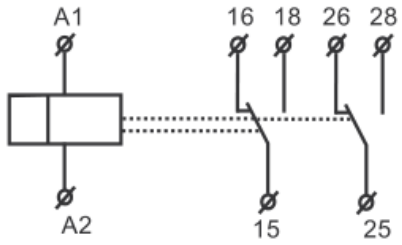
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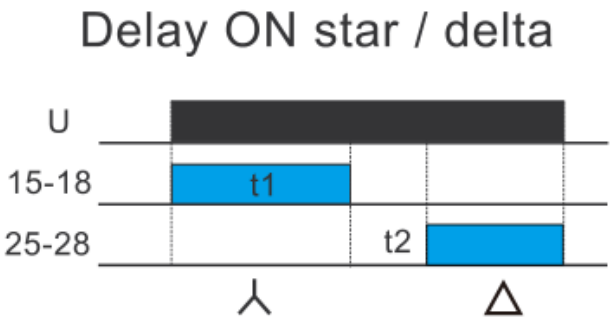
RT8-ST Star-Delta Timer Relay

NewTrend RT8-ST provides a timed star-to-delta starting sequence for motor control. Set the star interval t1 from 0.1 seconds to 10 minutes, followed by a separately adjustable 0.1-1 second transfer interval t2. Two SPDT outputs operate the star and delta contactor circuits in an 18mm DIN-rail housing.

Parameter	Specification
Model	RT8-ST
Output contacts	2 SPDT
AC power input	AC maximum 6VA / 1.3W
Weight	W240: 82g; A230: 80g
Function	Star-delta motor starting sequence
Supply terminals	A1-A2
Control supply options	W240: AC/DC 12-240V; A230: AC 230V; A400: AC 400V; 50-60Hz
Supply tolerance	-15% to +10%
W240 burden	AC 0.3-2VA / DC 0.1-1.2W
Supply indication	Green LED
Time setting	Range switch and potentiometers
Timing range	Star time t1: 0.1s-10min; transfer interval t2: 0.1-1s
Marked time ranges	t1: 1s, 10s, 1min, 10min; t2: 0.1-1s
Time setting deviation	10% with mechanical adjustment
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)
Terminal tightening torque	0.4Nm
Body dimensions	90 x 18 x 64mm
Referenced standards	EN 61812-1; IEC 60947-5-1

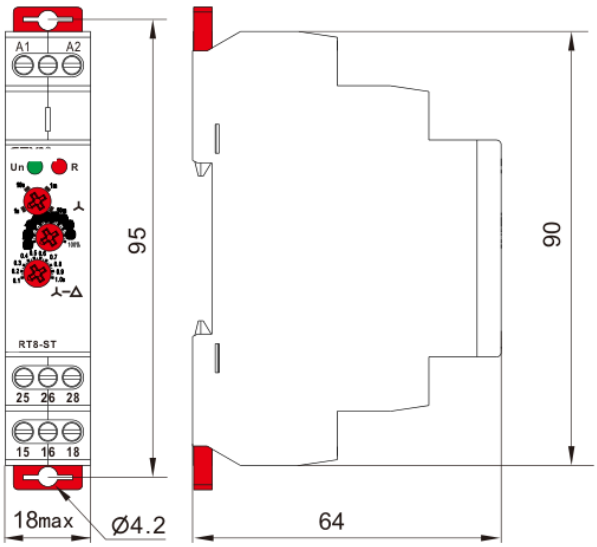
Connections and operation

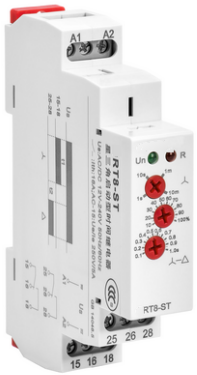




After the supply is applied, output 15-18 operates for the selected star interval t1. After it releases, the transfer interval t2 runs before output 25-28 operates for delta.

Dimensions and adjustment





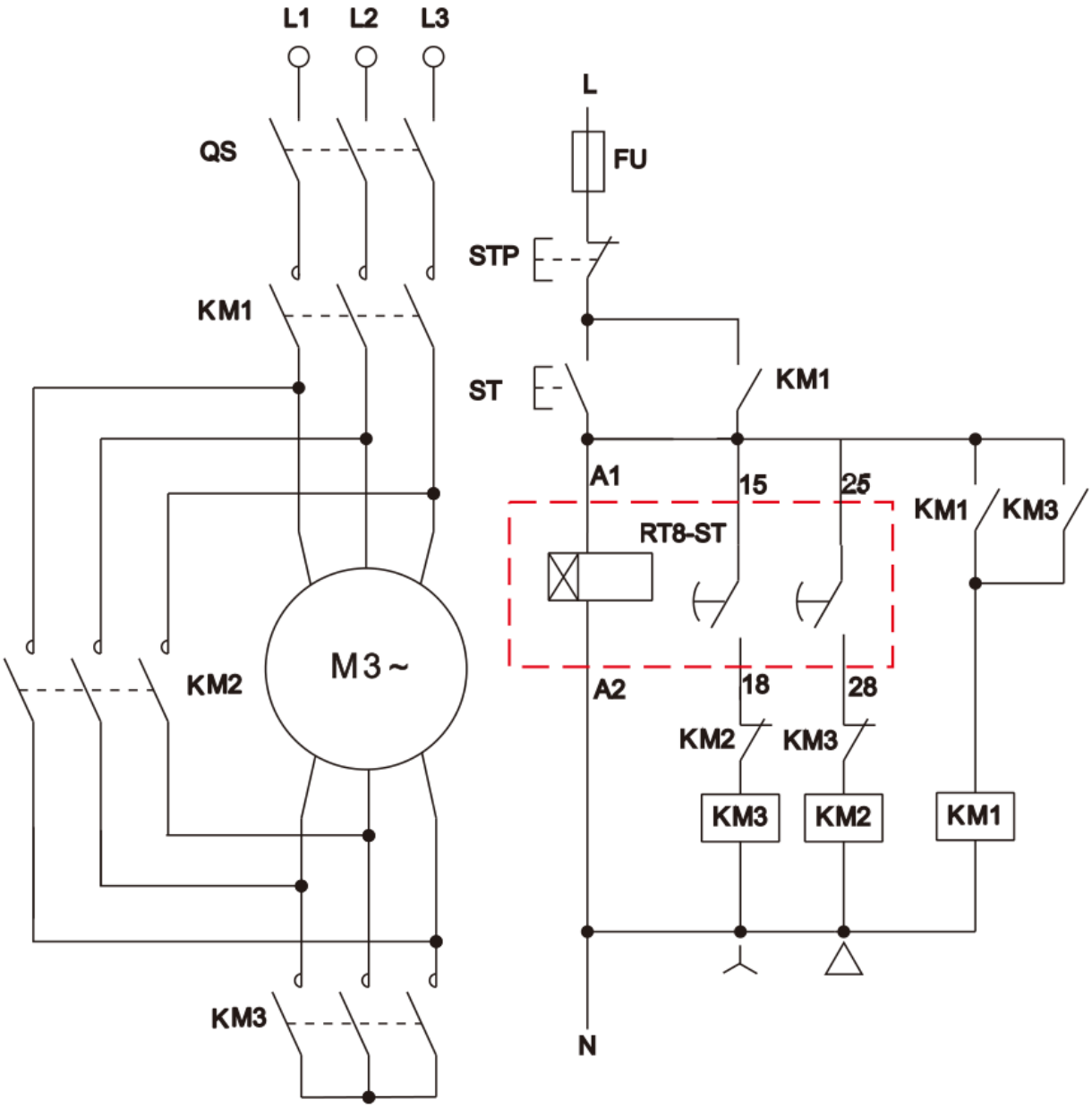
Body: 90 x 18 x 64mm. Overall height: 95mm. Fixing holes: 4.2mm.

Set the star interval with its marked range and 10%-100% fine adjustment. Set the transfer interval independently from 0.1 to 1 second. Use suitable contactors and the required electrical/mechanical interlocking for the motor starter.

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.

Star-delta starter reference circuit



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