

Delay ON star/delta time relay GRT6-ST

Instruction Manual



General

■ Applications

-Designated for delay ON of motors star/delta.

■ Function Features

-Time t1 (star) :

time scale 0.1 s - 10min divided into 4 time ranges
rough time setting by rotary switch.

-Time t2 (delay) :

time scale 0.1 s - 1 s
time setting by potentiometer

- Relay status is indicated by LED.

- 1-MODULE,DIN rail mounting.

■ Model and connotation

GRT6 -ST / □

Rated control supply voltage:

A230:AC230V

A400:AC400V

S240:AC/DC24V-240V

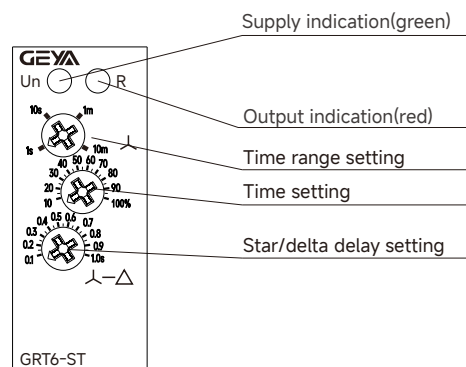
Delay ON star/delta

GRT6 Series

Technical parameters

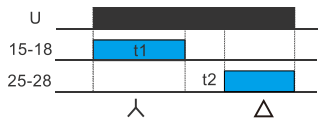
Technical parameters	GRT6-ST
Function	Delay ON star/delta
Supply terminals	A1-A2
Voltage range	AC/DC 24-240V(50-60Hz)
Burden	AC 0.7-3VA/DC 0.5-1.7W
Voltage range	AC 230V,AC400V(50-60Hz)
Power input	AC max.6VA/1.3W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	Range of time delay t1: 0.1 s - 10 min,Switch time t2: 0.1 s-1 s
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coecient	0.05%/°C,at=20°C(0.05°F, at=68°F)
Output	2×SPDT
Current rating	10A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1×10 ⁷
Electrical life(AC1)	1×10 ⁵
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage cathegory	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1×2.5or 2×1.5/with sleeve max.1×2.5(AWG 12)
Tightening torque	0.4Nm
Dimensions	90×18×64mm
Weight	S240-82g,A230-80g
Standards	EN 61812-1,IEC60947-5-1

Panel Diagram



Functions Diagram

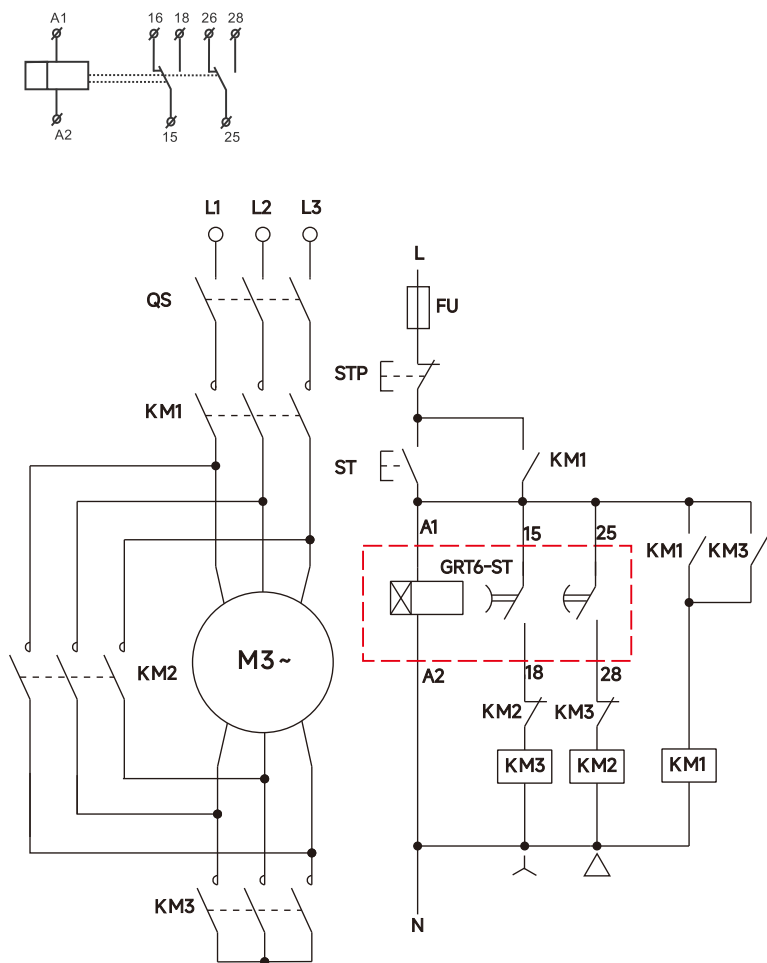
Delay ON star / delta



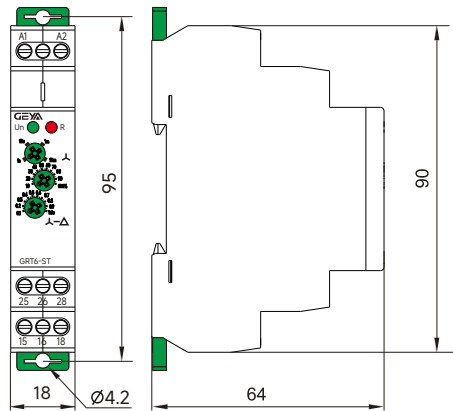
Setting instructions

	Knob 1: delay gear setting, "s" for second, "m" for minute.
	Knob 2: fine adjustment of delay time, 10% ~ 100% adjustable.
Delay time = knob 1 × knob 2. Example 1: it needs to be set for 5 seconds. You can set knob 1 to 10s, knob 2 to 50%, and delay time = 10s × 50% = 5s. Example 2: it needs to be set for 8 minutes. You can set knob 1 to 10m, knob 2 to 80%, and delay time = 10m × 80% = 8m.	

Wiring Diagram



Dimensions(mm)



Disposal of Electrical Waste
All electrical waste should be disposed of in compliance with current WEEE regulations.



Caution
The products must be installed by qualified electricians. All and any electrical connections of the product shall comply with the appropriate safety standards.