



Fastron
Electronics

THREE PHASE TRIGGER MODULE

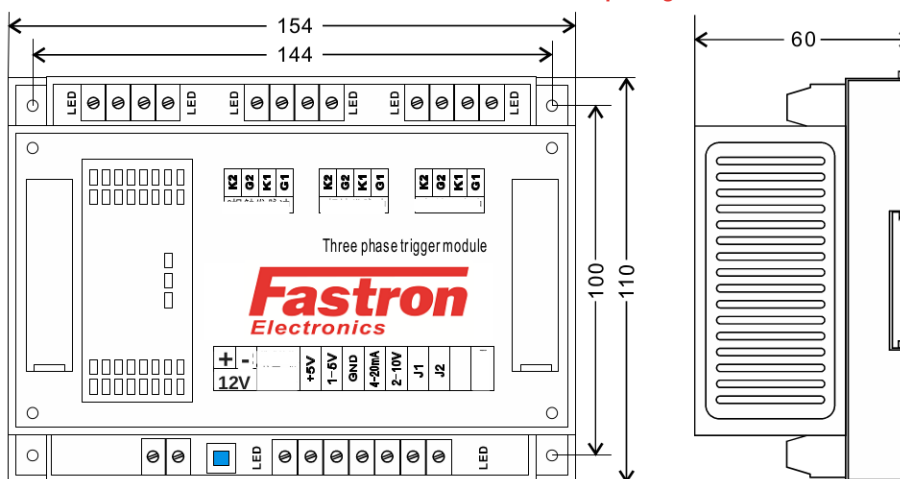
FYCF-3 three-phase thyristor trigger is designed and sub contract manufactured by Fastron Military-grade PCB and imported single-chip microcomputer. It is used to trigger thyristor to realize voltage regulation function. The output linearization degree is high, the output control point is low, and the load voltage is stepless. Adjustment, can adjust the primary side of the transformer, welding machine, temperature control, dimming, charging, excitation, electroplating, electrolysis, water treatment, etc.

1. Specification

- ▶ Trigger waveform has good symmetry, control accuracy <5%, high linearity, stable operation
- ▶ The trigger power is large, and the thyristor within 3000A can be directly triggered.
- ▶ A variety of control signals, potentiometer (10K), DC1-5V, DC2-10V, DC4-20mA.
- ▶ With soft start function, power-on soft start protection thyristor and load are not affected by impact (please specify when ordering) set delay time 0-165 seconds to choose.
- ▶ The design is novel and unique, the three-phase has no phase sequence limitation, the wiring is simple, and the maintenance is convenient.
- ▶ The main circuit is completely isolated from the control circuit and is safe and reliable.
- ▶ Spraying three anti-paint has a transparent protective film, which has superior moisture, dust and corrosion resistance
- ▶ The trigger is provided with an event or fault blocking trigger pulse function, such as blocking the pulse when the device is turned on, so that the thyristor of the main circuit is completely turned off.

2. Dimension (mm)

LED Status 1 power-on indicator and 6 trigger-on indicators.
1 indicator for the 4-20mA input signal.



Note: Link J1 and J2 to Disable/Inhibit Output to SCR Gate Drive

See Page 3 for SCR wiring arrangement

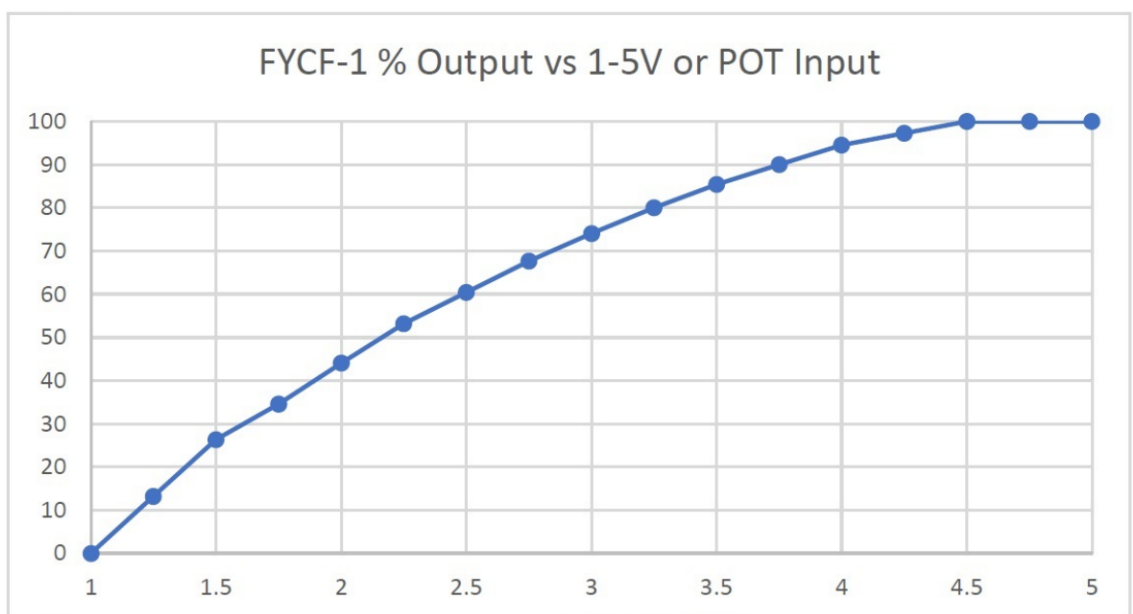
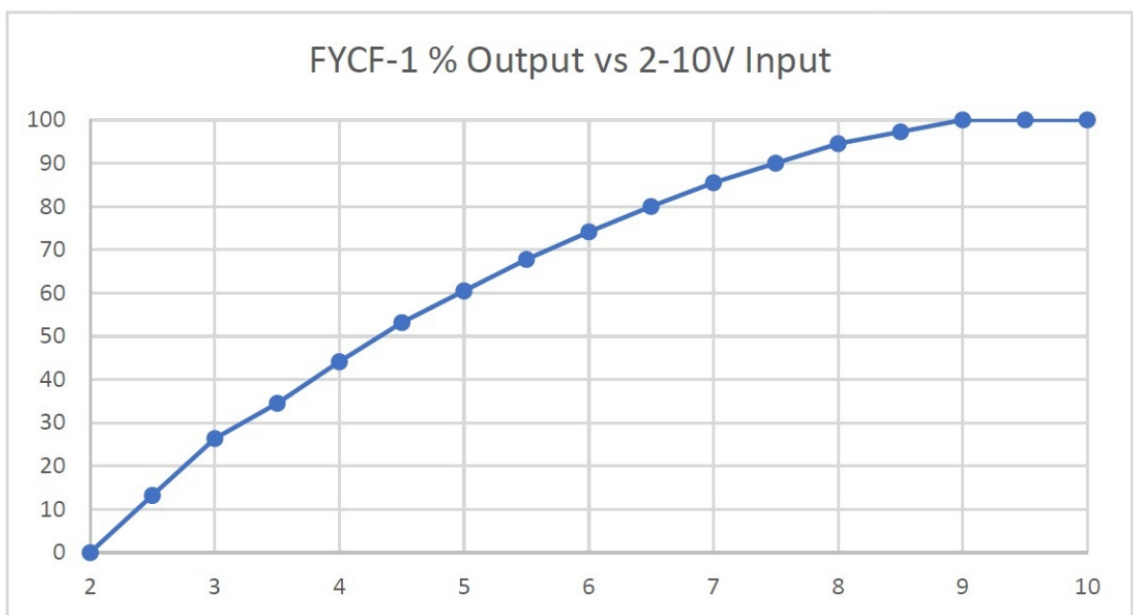
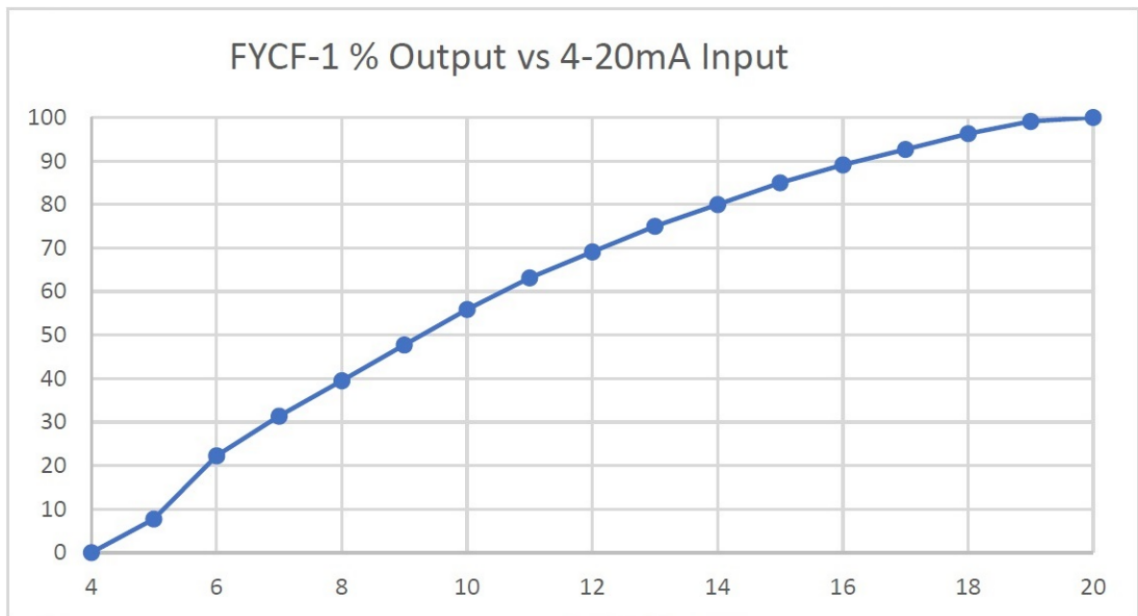
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Linearity to Control Input Types



See Page 3 for SCR wiring arrangement

AC Switch and Rectifier bridge wiring arrangement

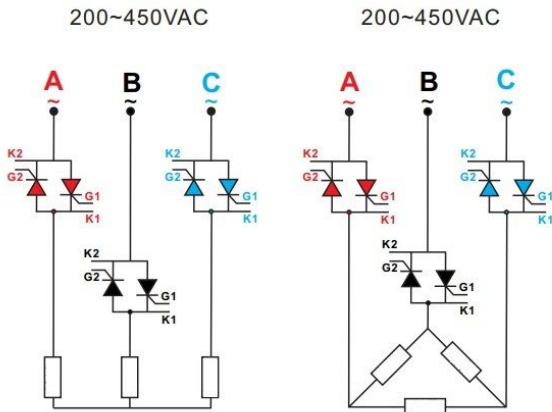


Fig 1. Three Phase, Fully Controlled, Phase Control

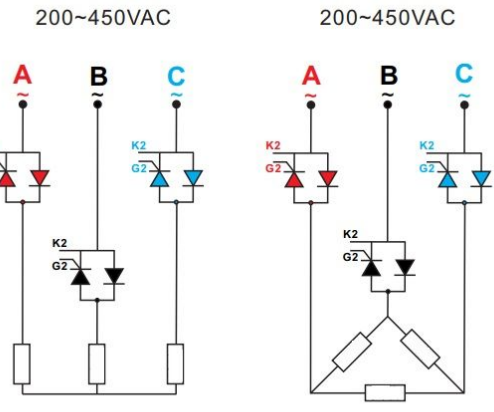


Fig 2. Three Phase, Half Controlled Phase Control

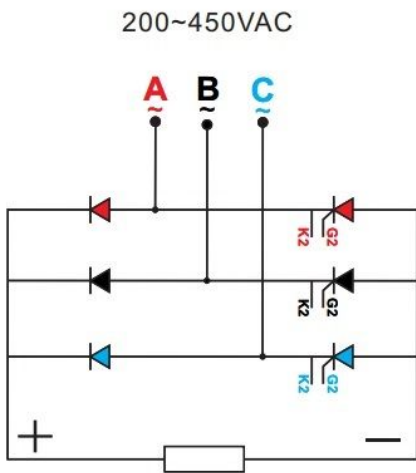
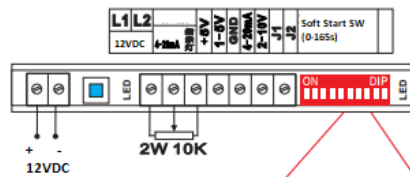


Fig 3. 3 Phase Half Controlled Bridge

Soft start Setting (FYCF-3R Only)



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