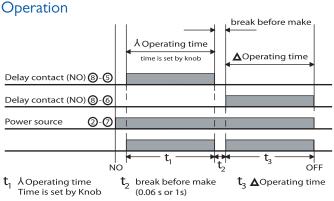




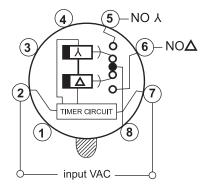
W-SD Star-Delta Timer

The W-SD is a Star-Delta timer. Specially designed for induction motor starting, the star-delta transfer time is set to 0.06s or 0.1s with the star-delta transfer time selector on the lower-right side of the front panel. When input voltage is available, the relay star will energize and star time period begin the timing cycle. At the end of the timed period, the relay star will be de-energized, the adjustable delay star to delta period start. At the end of the transfer timed period, the relay delta will energize. When input voltage is removed, the timing circuit is reset and both relays (Star-Delta) are de-energized. Two relay outputs for Star and Delta. Fit standard 8 pin sockets.

### Specification Feature: Supply voltage : DC (V) 12, 24 AC (V) 220, 380 System frequency : 50/60 Hz. Power consumption: 2VA ±1% max Star-Delta transfer time: Programmable at 0.06s or 0.1s Relay output First operation : 人 relay Output type : (人 operation circuit) Relay: SPDT (Δ operation circuit) Relay: SPDT : 5A at 250 VAC Contact rating Mechanical: 2x10<sup>7</sup> times Operations Electrical: 1x10<sup>5</sup> times Environmental Operating temperature : $-10^{\circ}$ to $+55^{\circ}$ C Storage temperature : $-10^{\circ}$ to $+70^{\circ}$ C : Max 85%RH Ambient humidity **Enclosure** : Plastic case Material Mounting Panel, surface Connection 8-Pin round socket : LED 2x5 mm Indicator Dimension (mm) : 39X49X82 Weight : 146 g.



## Diagram



# Dimension in mm.

### Type Selection Code Model igstyle Time ranges $igstyle \downarrow$ to $\Delta$ Time ranges W-SD15 0.06 s. or 0.1 s. W-SD30 0.06 s. or 0.1 s. W-SD60 4102 0-60 sec 0.06 s. or 0.1 s 4103 W-SD120 0-120 sec 0.06 s. or 0.1 s.

