



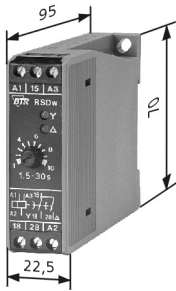
RSDw-E10
230 V AC / 24 V AC/DC -
1 changeover contact (two relays)

- preset switching time 50 ms
- LED indication

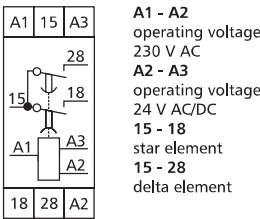
Part Numbers	
110 161 41 28 04 17	time range 1.5 - 30 s switching time 50 ms
110 161 41 28 05 17	time range 3 - 60 s switching time 50 ms

Star-delta Relay

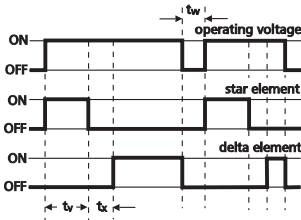
Housing Dimensions



Wiring



Function Diagram



Description

Star-delta relay with selectable delay time to switch three-phase current motors from star connection to delta connection.
Time setting is done by means of a linear potentiometer on relative scales.
On application of power the star element pulls on without delay and drops off after the selected delay time t_v . Then, after the fixed switch time t_x the delta element pulls on and drops off only after power is removed.

Technical Data

Input	nominal voltage U_N power consumption at 230 AC at 24 AC at 24 DC operating voltage range release voltage frequency range duty cycle response time t_a release time (star element) release time (delta element) switching time t_x recovery time t_w minimum turn-on time repeat accuracy voltage sensivity temperature sensivity operating temperature range storage temperature range	230 V AC, 24 V AC/DC 6.0 VA 1.0 VA 0.5 W 0.9 ... 1.1 x U_N $\geq 0.15 U_N$ 50 ... 60 Hz 100 % about 20 ms about 25 ms about 25 ms about 50 ms ≥ 250 ms - $\leq \pm 0.5$ % ≤ 0.5 % at 0.8 ... 1.1 U_N $\leq \pm 0.1$ %/K -10 °C ... +50 °C -25 °C ... +70 °C
Output	output contact contact material switching voltage max. continuous current max. making/breaking capacity contact fuses mechanical endurance electrical endurance permissible switching frequency isolation per VDE 0110 rated voltage overvoltage category pollution degree test voltage coil/contact EMC test	1 changeover contact AgNi 250 V 6 A 230 V~ 6 A AC1, 230 V~ 3 A AC3, 230 V- 0.12 A, 60 V- 0.6 A, 24 V- 4 A 12 V- 6 A DC1 6 A 3x10 ⁷ switching cycles 1x10 ⁵ switching cycles 1200 switching cycles/h 250 V AC/DC II 2 2000 V, 50 Hz 1 min. emission per EN 50 081 T1 interference immunity per EN 50 082 T2
Housing	type of protection (EN 60529) wire cross section mounting position colour weight housing dimensions WxHxL modular	housing IP50, terminal blocks IP20 2.5 mm ² any green 150 g 22.5 x 70 x 95 mm without spacing