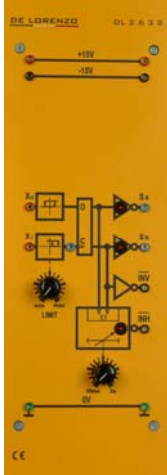




SWITCHING LOGIC



DL 2632

Logic circuit for switching the trigger pulse switch in 4-quadrant converter systems. The switching logic measures the polarity of the torque and switches the trigger pulses to the corresponding converter after a current-free delay time.

Technical features:

Input X_n for torque comparator (speed set point value).
 Input X_i for current comparator with adjustable limit threshold.
 Output S_A and S_B for the corresponding inputs of the trigger pulse switch with led indication of the active converter.
 Output INV for the corresponding inverting input of the absolute value generator.

Output INH for the corresponding inhibit input of the two pulse control unit, with adjustable delay time from 10 ms to 2 s and led indication of the commutating time.
 Current comparator output C for EXT selection input of the active elements of the adaptive PI controller.
 Power supply: +15 V/0 V/-15 V

FUNCTION GENERATOR



DL 2633

Versatile function generator.

Technical features:

Functions:
 sine / triangle / square wave / square wave with variable duty cycle.
 Frequency range: 10 Hz . . . 100 kHz in 4 decades.
 Output voltage: 0 V to 20 V_{pp} adjustable
 Two additional outputs with attenuator: -20 dB / -40 dB
 TTL output for triggering.
 VCO input, AC coupled.
 Power supply: single-phase from mains

VOLTAGE DIVIDER 20:1



DL 2634

Electronic voltage divider used as an interface between the dc machines (200 V) and the automatic control circuits (-10 V ...+15 V).

Technical features:

Possibility of capacitive filter with time constant 0.1 s.
 Protection against over voltages up to 1000 Vdc.
 Power supply: +15 V / 0 V / - 15 V