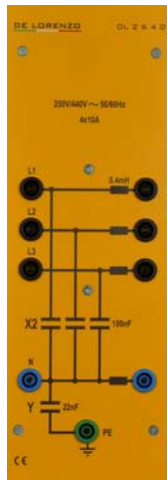




EMI FILTER



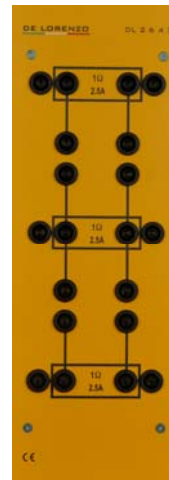
DL 2640

Line filter used to protect the mains network from the electromagnetic interference voltages generated by the switched-mode power supplies.

Technical features:

Inductances on the line: 0.4 mH
Capacitors between conductors and neutral: 100 nF
Capacitor between neutral and ground: 22 nF

SUPPORT WITH 3 SHUNTS 1 OHM



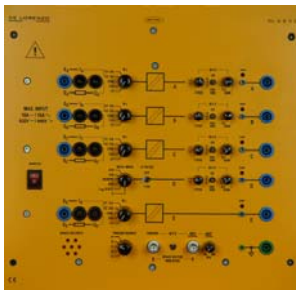
DL 2643

Support with 3 shunts, with different connection possibilities.

Technical features:

Resistance: 1 Ω
Accuracy: $\pm 1\%$
Max. current: 2.5 A

ISOLATION AMPLIFIER



DL 2642

Used in conjunction with an oscilloscope or with a computer interface for potential-free, safe measurement recording in particular in static converter systems and variable frequency drives.

Technical features:

Isolation amplifier, channels A, B, C, E:
- Frequency range: dc to 80 kHz.
- Input voltage (between 0 and U)
Max 620 Vdc/460 Vac
Input resistance $R_i = 1$ MW in all ranges
Three-stage attenuator: MT = 1: 1; 1/10; 1/100
Accuracy: $\pm 2\%$ of full scale range
- Input current (between 0 and I)
Max: 10 A continuous; 16 A for $t < 15$ min; 20 A for $t < 2$ min.
Internal resistance: 30 mW in all ranges
Two-stage attenuator: MT = 1 V/A; 1/3 V/A
Accuracy: $\pm 5\%$ of full scale range
Five outputs: A, B, C, D, E with led for over range indication
Output resistance R_O : 100 W

- Multiplexer:
Mux channels, selectable: 1 to 8 (4 x signal; 4 x zero line)
Gain attenuator, adjustable: 0.2 to 1.
Y-position, adjustable: -8 V to +8 V.
Trigger source, switchable to A, B, C, D, E.
Mux frequency, adjustable: 50 kHz to 500 kHz (typical).
Two BNC outputs for oscilloscope
Mathematical module and filter:
- Functional modes for channel D: Addition A+B; subtraction A-B; multiplication $A \times B / 10$ or $A \times B$; reconstruction of the phase voltage LIN(A, B, C) from the line-to-line voltages; channel E switched into channel D for multiplexing.

- Filter
Low pass active filter of the 2° order required for the recovery of the fundamental wave out of the PWM signals.
Cut-off frequency: 1 kHz.
Space vector indicator:
- Voltage vector: indication with 7 led.
- Magnetic flux vector: BNC outputs X e Y for oscilloscope.
Power supply:
- Single-phase from mains
Frequency: 50/60 Hz.