

# Switches

## Contactors

### LTHH/LTE/LTP line

#### Applications

Auxiliary converter input

Filter pre-charging

Capacitor discharging

Heating/Air conditioning systems

Line contactor

Train supply line

Resistors based traction systems, for starting and braking of electric motors

The Microelettrica Scientifica LTHH/LTE(P) series contactors for electric traction are supplied to railways and underground systems throughout the world.

Where high voltage ratings are required, the LTHH series contactors are the right solution.

The creepage and clearance distances are widely dimensioned for safe application in polluted ambient. Their narrow outline is especially conceived for applications where space is a critical issue - as more and more often happens on railway vehicles.

To meet all the possible applications, they are available both with electric and pneumatic control, and poles can be manufactured in normally open or normally closed configurations.

The indirect blow out circuit makes the LTHH contactors suitable to work both with high and low currents and with relatively high frequency (1500 Hz).

The DC control coil operates without economy resistor within a wide working range. More than 10.000 LTHH contactors are delivered worldwide every year for the most important projects.

#### General Characteristics

- The higher voltage single pole heavy duty line, up to 4000V<sub>DC/AC</sub> application, up to 1300A/pole
- On board and stationary application
- Multipole assemblies, NO and NC poles, indirect arc blow out
- Flexible control and auxiliary contacts options, high unit customization possible



#### Auxiliary Contact Blocks Type SJ11

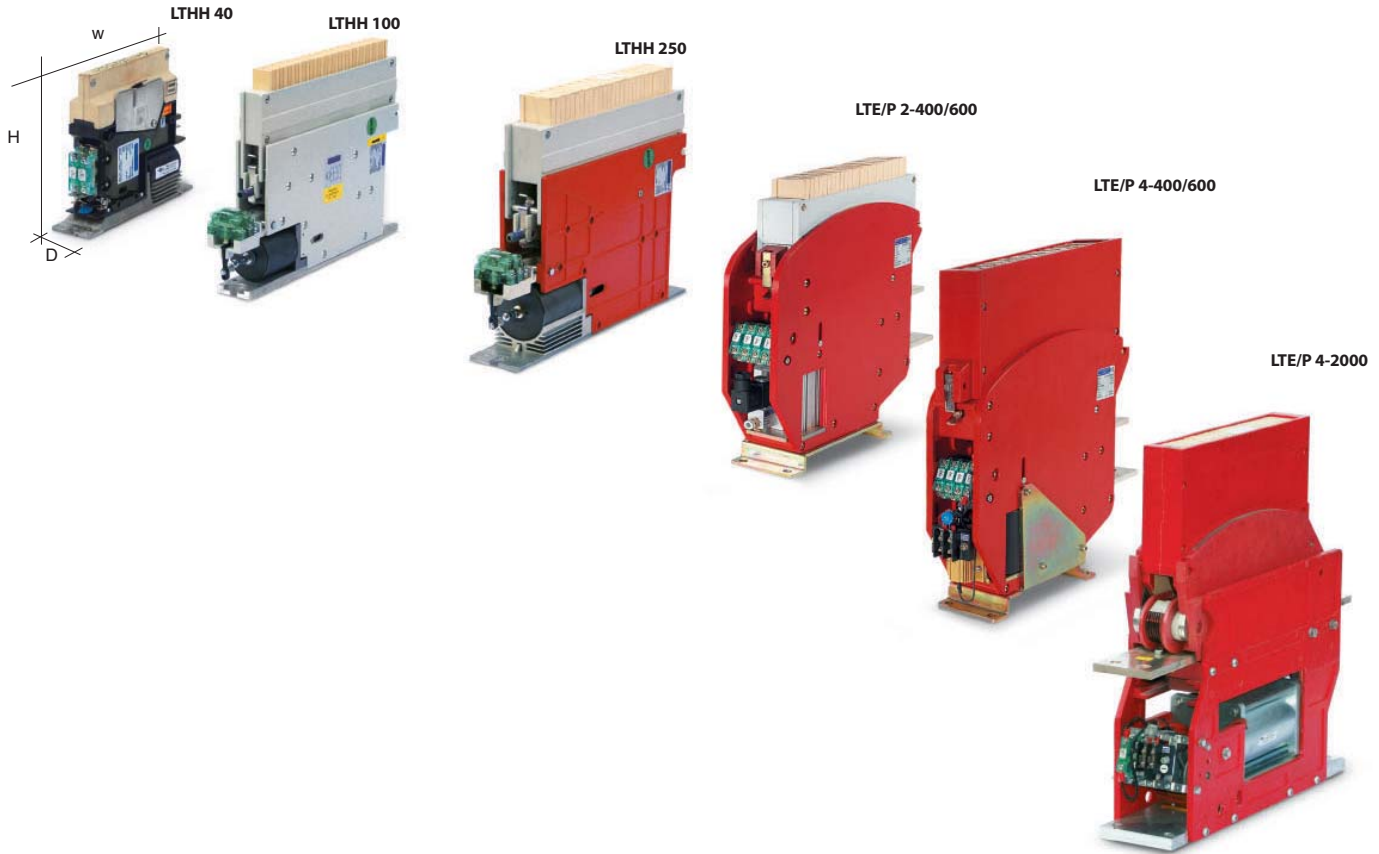
- Normally mounted on LTHH contactors and on disconnectors/changeovers
- Execution in Makrolon, self extinguishing and transparent polycarbonate
- Double interrupting, self cleaning, solid silver, snap action contacts
- On request, special execution with gold plated contacts



*Microelettrica Scientifica*

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Type	U <sub>max</sub> [V <sub>AC/DC</sub> ]	I <sub>th</sub> [A]	W [mm]	H [mm]	D1/D2 [mm]
LTHH 40	2000	60	200	162	48/106
LTHH 100	4000	120	377	274	60/130
LTHH 250	4000	300	377	295	70/160
LTE/P 2-400/600	2000	900	404	370	80/220
LTE/P 4-400/600	4000	900	403	394	85/220
LTE/P 4-2000	4000	1350	500	473	119/-



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