

# LTHM/P-U/D line

Microelettrica Scientifica disconnectors, available both with electric motor control and with pneumatic control, are designed to be employed in circuits up to 4 kV. Their current ratings, up to 1500 A per pole, allow them to fit almost all applications. Their contact technology, based on multi-finger jaws, enables the LTHM and LTHP disconnectors to withstand consistent dynamic currents (up to 220 kA). Microelettrica Scientifica's effort in designing a product range with reduced space outline, sturdy structure and a long mechanical life (over 100,000 operations), has led to a worldwide success in railway applications.

Poles can be connected in parallel to obtain higher thermal currents on single contact (up to 6000 Amps)

On D versions, poles can be reversed forming NC poles, or single-double pole changeover without additional structure

On D versions, additional upper structure is available to create 1 to 4 changeover poles

24 combinations are available with more than 130 pole configurations

Several options available for control circuits and for auxiliary contacts connection

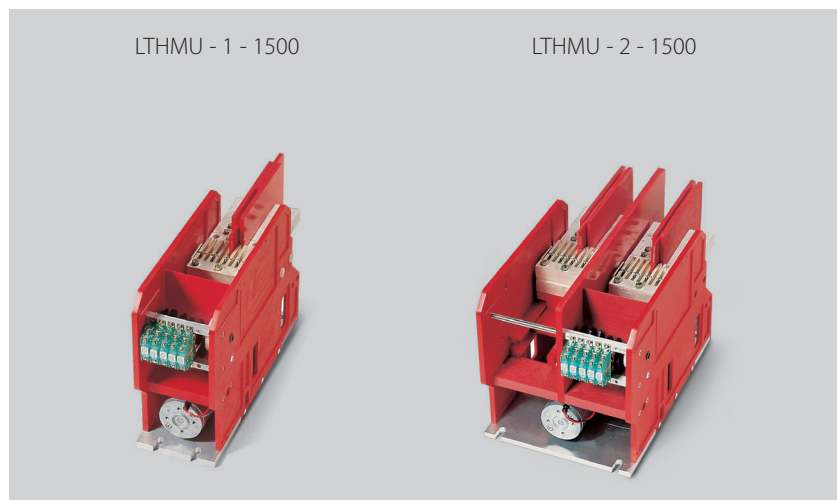
Integrated solutions: multiple switches are assembled on frame with customised busbar system and integrated control circuits

## Applications

Traction circuit configuration change in multi-system locos

Isolation of power converter

Isolation of traction motors



## GENERAL CHARACTERISTICS

Heavy duty line for DC and AC applications up to 4000 V

On-board and stationary applications, 2 thermal current ratings per pole: 800 or 1500 A

Normally open, normally closed, changeover poles from 1 to 4 poles units with single control

Electric DC motor or pneumatic cylinder control, with customized auxiliary contacts execution

High customization level is available and mostly applied

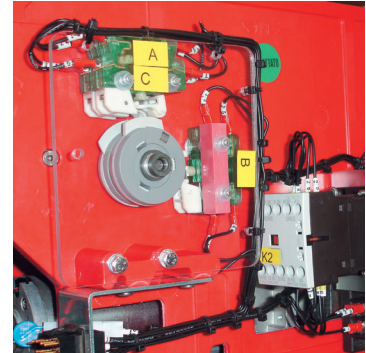
Integrated multifunctional units designed and customized on request

### AUXILIARY CONNECTIONS

To meet all customer requirements, special connections and cabling can be supplied both on the high voltage and on the low voltage circuits.

On the HV side, poles can be connected in series or parallel. Terminals can be shaped according to customers' requirements

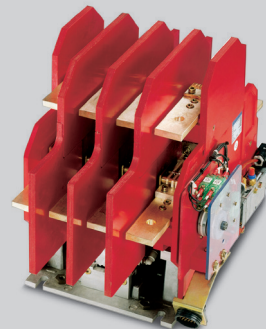
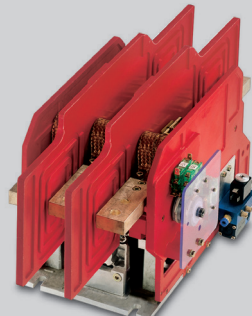
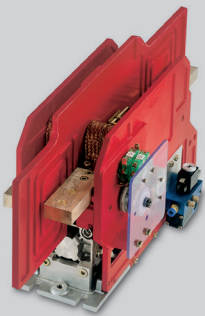
LV circuits can be cabled to perform different logical functions. Any kind of connector available in commerce can be fitted to these circuits



LTHPD - 2 - 1500

LTHPD - 3 - 800

LTHPD - 4 - 800 CO



LTH	M	U	1	800
LTH	M	U	1	1500
LTH	M	U	2	800
LTH	M	U	2	1500

LTH	P	U	1	800
LTH	P	U	1	1500
LTH	P	U	2	800
LTH	P	U	2	1500

LTH	M	D	1	800
LTH	M	D	1	1500
LTH	M	D	2	800
LTH	M	D	2	1500
LTH	M	D	3	800
LTH	M	D	3	1500
LTH	M	D	4	800
LTH	M	D	4	1500

LTH	P	D	1	800
LTH	P	D	1	1500
LTH	P	D	2	800
LTH	P	D	2	1500
LTH	P	D	3	800
LTH	P	D	3	1500
LTH	P	D	4	800
LTH	P	D	4	1500

M/P: Electric motor (M) or pneumatic (P) bistable control

U/D: Power terminals on same side (U) or on opposite side (D)

1/2/3/4: Number of poles

800/1500: Thermal current of each pole (in Amps)