

Current Transducer LF 205-S/SP1

Insulation coordination

U_d	RMS voltage for AC insulation test, 50/60 Hz, 1 min	3.5	kV
U_{Ni}	Impulse withstand voltage 1.2/50 μ s	8.8	kV
		Min	
d_{cp}	Creepage distance	9.5	mm
d_{cl}	Clearance	9.5	mm
CTI	Comparative Tracking Index (group IIIa)	175	

Applications examples

According to EN 50178 and IEC 61010-1 standards and following conditions:

- Over voltage category OV 3
- Pollution degree PD2
- Non-uniform field

	EN 50178	IEC 61010-1
d_{cp}, d_{cl}, U_{Ni}	Rated insulation voltage	Nominal voltage
Basic insulation	800 V	800 V
Reinforced insulation	400 V	300 V

Safety

This transducer must be used in limited-energy secondary circuits according to IEC 61010-1.



This transducer must be used in electric/electronic equipment with respect to applicable standards and safety requirements in accordance with the manufacturer's operating instructions.



Caution, risk of electrical shock

When operating the transducer, certain parts of the module can carry hazardous voltage (eg. primary busbar, power supply).

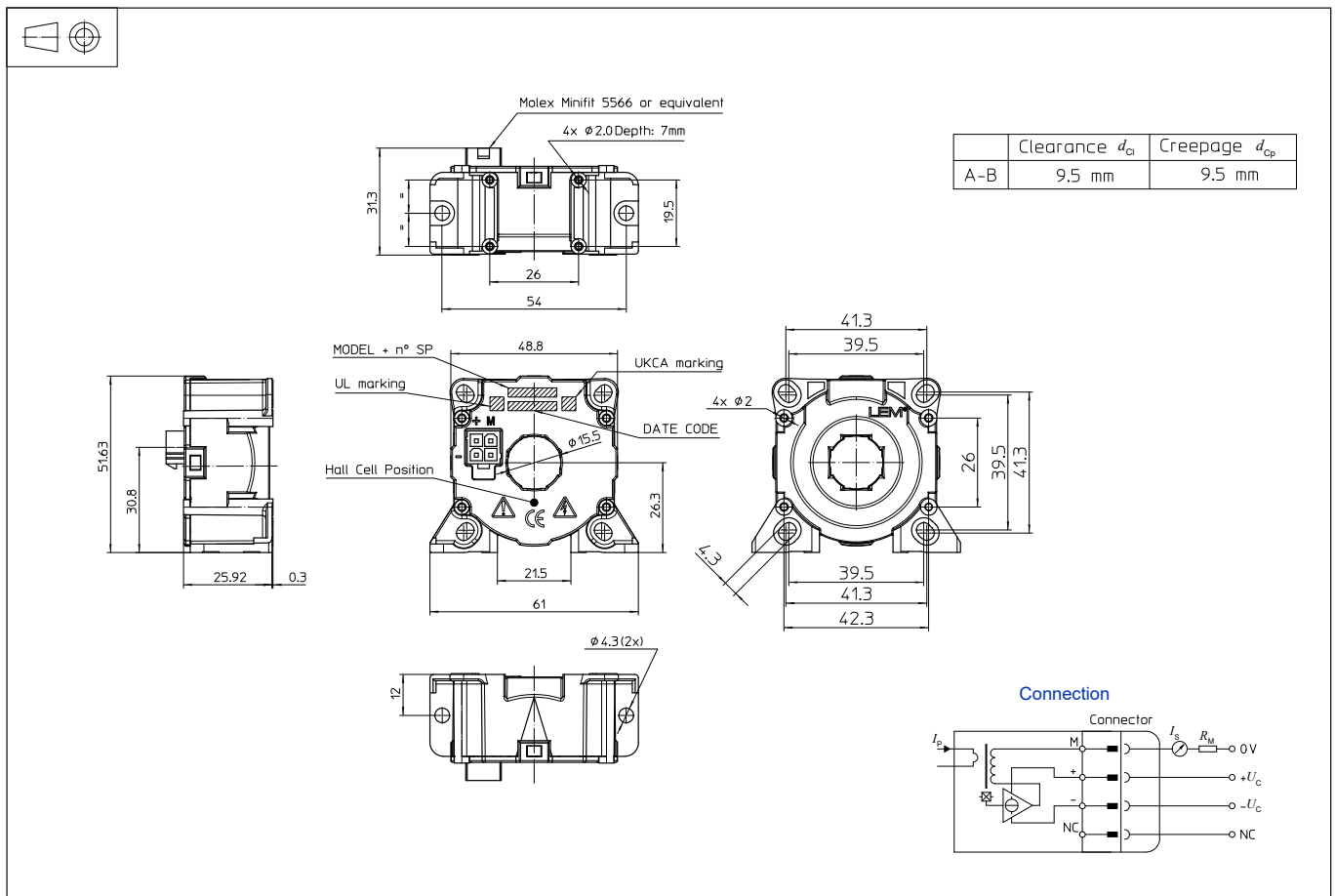
Ignoring this warning can lead to injury and/or cause serious damage.

This transducer is a build-in device, whose conducting parts must be inaccessible after installation.

A protective housing or additional shield could be used.

Main supply must be able to be disconnected.

Dimensions LF 205-S/SP1 (in mm)



Mechanical characteristics

- General tolerance ± 0.2 mm
- Transducer fastening
 - Vertical position
 - 2 holes $\phi 4.3$ mm
 - 2 M4 steel screws
 - Recommended fastening torque 1.5 N·m
 - Or
 - 4 holes $\phi 2.0$ mm
 - depth: 7 mm
 - 4 screws PTKA 25
 - length: 6 mm
 - Recommended fastening torque 0.7 N·m
- Transducer fastening
 - Horizontal position
 - 4 holes $\phi 4.3$ mm
 - 4 M4 steel screws
 - Recommended fastening torque 1.5 N·m
 - Or
 - 4 holes $\phi 2.0$ mm
 - 4 screws PTKA 25
 - min length: 11.5 mm with thickness of fixed plate
 - Recommended fastening torque 0.7 N·m
- Primary through-hole $\phi 15.5$ mm
- Connection of secondary Molex Minifit 5566 or equivalent

Remarks

- I_s is positive when I_p flows in the direction of the arrow.
- Temperature of the primary conductor should not exceed 100 °C.
- Installation of the transducer must be done unless otherwise specified on the datasheet, according to LEM Transducer Generic Mounting Rules. Please refer to LEM document N°ANE120504 available on our Web site: <https://www.lem.com/en/file/3137/download>.
- Dynamic performances (di/dt and delay time) are best with a single bar completely filling the primary hole.

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