
LINETRAXX® CTBS60

AC/DC sensitive measuring current transformer





Device features

- Split-core measuring current transformer for easy retrofitting without disconnecting the primary conductors
- Suitable for AC/DC sensitive type B monitoring
- Can be combined with EDS440WNR insulation fault locators
- Supply voltage DC 24 V

Certifications

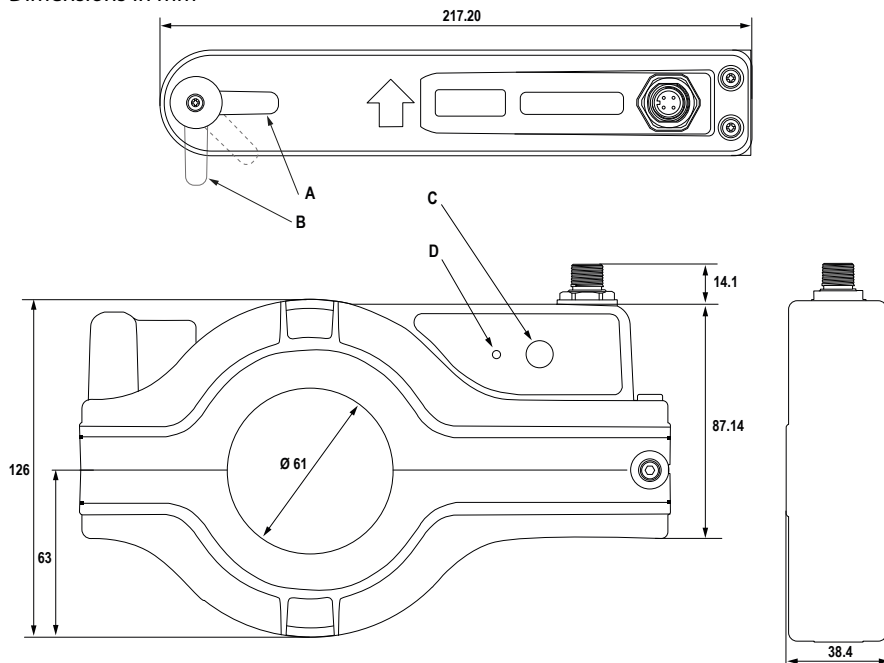


Product description

The AC/DC sensitive CTBS60 (type B) measuring current transformers convert system leakage and fault currents into an evaluable measurement signal. The devices are suitable for detecting fault currents with smooth DC components. The measuring current transformers can be used in DC, AC, and 3(N)AC systems. The measurement signal is evaluated using devices of the EDS440WNR series, to which the measuring current transformers are connected.

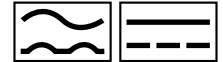
Dimension diagram

Dimensions in mm

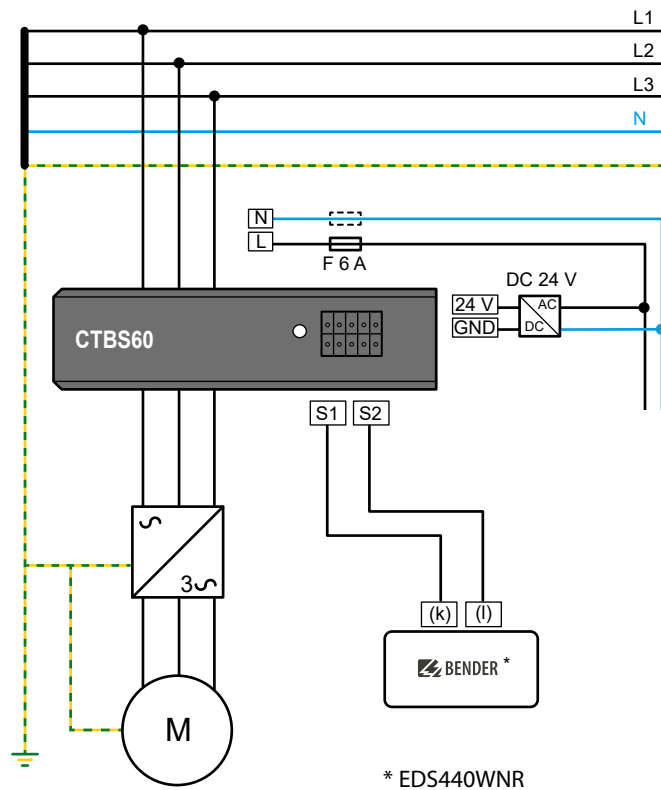


A	Jaw locked
B	Jaw unlocked

C	Auto zero & Degauss button
D	Status LED



Wiring diagram



Ordering information

Type	Supply voltage U_s	Art. No.
CTBS60	DC 24 V	B98120062

Technical data

Values only apply to closed measuring current transformer.

Insulation coordination acc. to IEC 60664-1/IEC 60664-3

Measuring circuit (IC1)	insulated primary conductors routed through the current transformer
Secondary (IC2)	connector 1 (24 V, GND, S1, S2)
Rated voltage	800 V
Overvoltage category	III
Area of application	≤ 2000 m AMSL
Rated insulation voltage IC1/IC2	800 V
Pollution degree	3
Basic insulation between IC1/IC2	800 V

Supply voltage

Supply voltage U_s	DC 24 V
Operating range of U_s	± 20 %
Ripple U_s	≤ 2 %
Power consumption	≤ 0.24 W typ. (2.4 W max.)

Measuring circuit

Measuring current transformer, internal diameter	61 mm
Frequency bandwidth	DC...100 kHz
Measuring range I_Δ	10...500 mA
DC/AC (< 100 kHz)	
max. Rated current I_n	100 A
Rated continuous thermal current I_{cth}	68 A
Operating uncertainty	± 1 % ± 0.5 mA
Cable length between (S1, S2) and (k, l)	10 m

Indication

Multicolour LED	red, green
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Environment/EMC

EMC	EN 50121-1, EN 50121-5, EN 61326-1& EN 55011
Operating temperature	$-25...75$ °C
Classification of climatic conditions acc. to IEC 60721 (except condensation and formation of ice)	
Stationary use (IEC 60721-3-3)	3K23
Transport (IEC 60721-3-2)	2K11
Long-term storage (IEC 60721-3-1)	1K22
Protection against mechanical impact (IEC 62262)	IK 06

Connector 1, reverse polarity protection

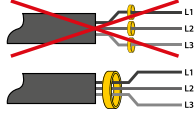
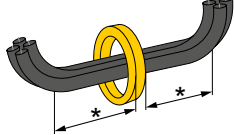
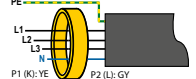
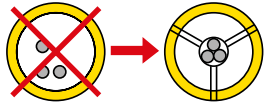
Type	M12 4-pole Male code A
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Other

Operating mode	continuous operation
Mounting	any position
Degree of protection	IP 52
Flammability class	UL94 V-0
Weight	690 g

Installation instructions

- Do not route any shielded cables through the measuring current transformer.
- Existing protective conductors and low-resistance conductor loops must not be routed through the measuring current transformer!

All current-carrying cables must be routed together through the measuring current transformer. Do not route any shielded cables through the measuring current transformer!		The primary conductors may only be bent from the specified minimum distance. The minimum bending radius specified by the manufacturers must be observed. * Distance to 90° angle = 2 x external diameter	
Never route an existing protective conductor through the measuring current transformer.		The cables must be aligned with the centre of the measuring current transformer. The cable diameter may not exceed half the current transformer diameter.	



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Subject to change!

The specified standards take into account the edition valid until 09.2025 unless otherwise indicated.