

ABB 500LTD02 Line Transformer datasheet

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The line transformer 500LTD02 is designed for FSK channels with 9.6kBd and to isolate and protect the RTU500 series Modems 23WT24 and 560FSM11 from the telecontrol line. Moreover it can also be connected to other data terminal equipments. It operates at a frequency range from 2 kHz to 50 kHz and is optimized for line impedances of 150 Ohms which applies to above mentioned modems.

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RTU500 series

Data Sheet

Line Transformer 500LTD02

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Line Transformer 500LTD02



A high-resistance staggering is possible with both types of modems on e.g. party lines and multi-drop lines. This is because the line transformer has no additional load at the line.

In configurations using full duplex communication channels two line transformers are required, one for transmitting direction and one for receiving direction.

Characteristics

The line transformer withstands an isolation voltage of:

- > 7.5kV

Application

The line transformer 500LTD02 is designed for FSK channels with 9.6kBd and to isolate and protect the RTU500 series Modems 23WT24 and 560FSM11 from the telecontrol line. Moreover it can also be connected to other data terminal equipments. It operates at a frequency range from 2 kHz to 50 kHz and is optimized for line impedances of 150 Ohms which applies to above mentioned modems.

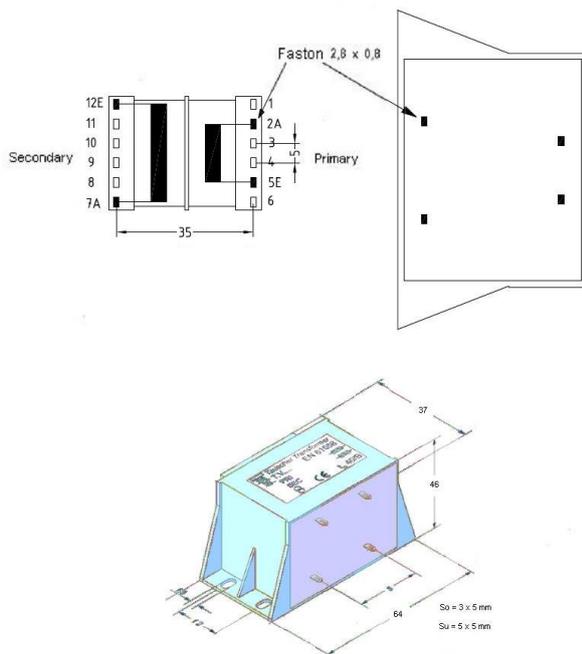
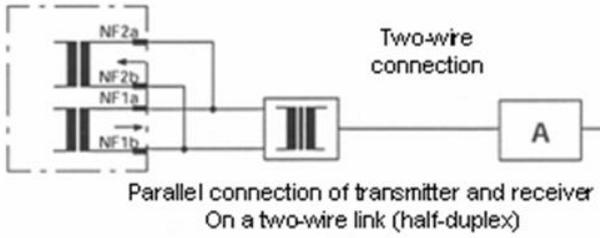


Figure 1: Line transformer dimensions

RTU500 series

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23WT24 / 560FSM11



23WT24 / 560FSM11

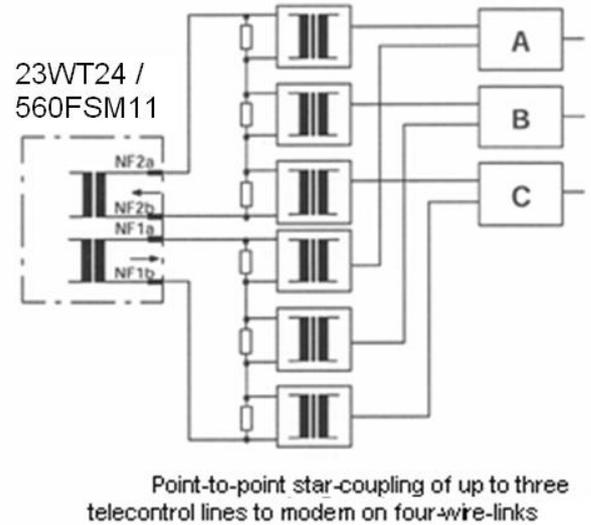
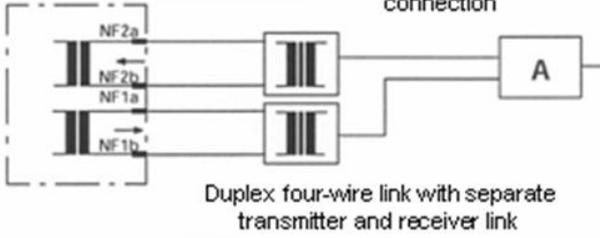


Figure 2: Communication line connection

RTU500 series

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Technical Data

In addition to the RTU500 series general data, the following applies:

General Data

Working frequencies	2 kHz ... 50 kHz
Ratio	1 : 1
Impedance	Transparent, optimized for 150 : 150 Ω
Transmission loss (within working frequency range and rated impedance)	≤ 0.5 dB
Return loss (within working frequency range and rated impedance)	≥ 20 dB
Insulation test voltage	> 7.5 kV, 10s
Insulation Resistance	10 000 M Ω at 500V between windings and the case

Power Supply

Supply	Passive, non powered
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Mechanical Layout

Dimensions	H x W x D 46 x 64 x 37 mm
Weight	approx. 0.055 kg
Mounting	Flanges with holes

Connection Type

Connector	Faston 2.8mm x 0.8mm
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Environmental Conditions

Temperature	0 ... 70 °C
Relative humidity	5 ... 95 % non condensing

Ordering information

500LTD02 R0002 Line Transformer for FSK 9.6kBd	1KGT 026 600 R0002
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