VICENTE TORNS SLOVAKIA

VICENTE TORNS GROUP

Enamelled wires

VT THERM 120° FL Copper

- **Enameled winding wire with excellent** mechanical, thermal and chemical properties
- **Insulation based Polyvinyl formal**
- **Temperature Index 120**

General description

VT THERM 120° rectangular-shaped copper wires are insulated with a Polyvinyl-formal magnet wire enamel, with excellent chemical resistance, flexibility and very good adhesion.

Application

Flat wire to produce transposed cable (CTC).

Conventional Types

Rectangular copper wires:

- Thickness: 1,10 to 4.5 mm

- Width: 3.8 to 14.00 mm

- Cross-section: 4 to 70 mm2

- Coating class: Grade 1 and Grade 2 Dimensions outside of this range on request

The standard dimensions of the conductors (nominal dimension) and the tolerances comply with the standard IEC 60317-18.

Standards

VT THERM 120° rectangular-shaped copper wires meet the requirements of IEC 60317-18.

The test methods are based on IEC Publication 60851

60851-1 General

60851-2 Definition of dimensions

60851-3 Mechanical properties

60851-4 Chemical properties

60851-5 Electrical properties

60851-6 Thermal properties

Advantages

High thermal stability and good mechanical properties VT THERM 120 rectangular wires are particularly suitable for coils subjected to constantly high temperatures and mechanical stresses with an optimal resistance to the mineral oil and silicon oil. Very good characteristics for all kind windings. Thermal index is 120 IEC 60172.

Appearance

Slight color variations are raw material or processrelated and have no influence on the technical properties of the wire.

The product properties set forth in this data sheet are based on the results of testing of typical material produced by the company VT GROUP. Some variation in product properties is typical. Comments or suggestions relating to any subject other than product properties are offered only to call the end-user's or other person's attention to considerations which may be relevant in the independent determination of the use and/or manner of use of product. VT Group does not claim or warrant that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. VT GROUP expressly disclaims any liability for any damage, harm, injury, cost or expense to any person resulting directly or indirectly from that person's reliance on any information contained in this data sheet. Nothing contained in this data sheet constitutes representation or warranty as to any matter whatsoever. VT GROUP makes no warranties whatsoever in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. VT GROUP shall in no event be liable for incidental, exemplary, punitive or consequential damages.

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Unit	Value	Test norm
	No cracks	IEC 60851-6
mm	0,06 – 0,11	IEC 60851-2
mm	0,12 – 0,17	IEC 60851-2
%	Min.30	IEC 60851-3
%	Min.32	IEC 60851-3
degree	Max.5	IEC 60851-3
	No crack	IEC 60851-3
	No crack	IEC 60851-3
	No crack	IEC 60851-3
	Loss of adherence less than 1xwidth	IEC 60851-3
V	≥ 1000	IEC 60851-5
V	≥ 2000	IEC 60851-5
	mm % degree	mm 0,06 – 0,11 mm 0,12 – 0,17 % Min.30 % Min.32 degree Max.5 No crack No crack No crack Loss of adherence less than 1xwidth V ≥ 1000

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