

Fibre-insulated wires

VS 240 RENF

- Winding wire for traction motors and rotating HV-machines
- **Temperature Index 240**

General description

VS 240 RENF is a polyimide enameled flat copper wire insulated with a reinforced, polyimide impregnated, fibre blend covering.

Application

- Traction motors
- High temperature rotating HV-machines

Conventional types

VS 240 RENF covered enameled wires are available in the following standard grades:

VS 240 V and VS 240 P covered with a different type of mixed fibres.

2 to 70 mm2 Cross section: Width: 2 to 12 mm Thickness: 1 to 5 mm

The standard dimensions of the conductors (nominal dimensions), the tolerance and the overall dimension of the enameled wire, complies with the IEC standard 60317-0-2.

Standards

There are no existing IEC standards for VS 240 wires today.

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

- Very high thermal resistance
- Very good dielectric properties
- Covering with high mechanical strength

Order data

The designation shall comprise:

Complete order:

2000 kg FL VS240 RENF 2.24x5.00mm D500

For rectangular shape: VS 240 RENF Description of the insulation: Reel type: e.g.: **DIN 500**

Torns Fil De Bobinage SAS F-90100 Delle

unit	value	Test standard
mm	0.25 to 0.30	
%	≥ 30	IEC60851-3 test 6
%	≥ 32	IEC60851-3 test 6
0	≤ 5.5	IEC60851-3 test 7
20 %	No loss of adhesion	IEC60851-3 test 8
visual	no cracks	IEC60851-3 test 8
visual	no cracks	IEC60851-3 test 8
visual	no cracks	IEC60851-3 test 8
V	≥ 2400	IEC60851-5 test 13
visual	no cracks	IEC60851-6 test 9
visual	no cracks	IEC60851-6 test 9
TI	240	IEC60172
	mm % % 20 % visual visual V	mm 0.25 to 0.30 % ≥ 30 % ≥ 32 ° ≤ 5.5 20 % No loss of adhesion visual no cracks visual no cracks Visual no cracks Visual no cracks visual no cracks

Appearance

Slight color variations are raw material or process-related and have no influence on the technical properties of the wire

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