



# DAMID

Round enamelled winding wire of copper, heat resistant - class 200

**Product name**

DAMID - Grade 1  
DAMID - Grade 2

**UL approval**

DAMID, E101843, MW 35-C

**Specification**

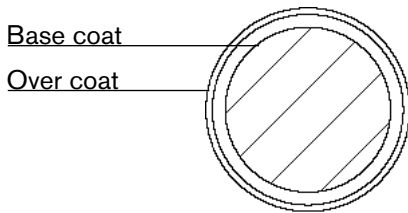
IEC 60317 - 13  
NEMA MW 35 - C

**Class 200**

Temperature index  $\geq 200^{\circ}\text{C}$  as per IEC 60172  
Heat shock  $\geq 220^{\circ}\text{C}$

**Insulation**

Base coat: THEIC-modified polyesterimide  
Over coat: Polyamid-imide



**Properties**

- Suitable for winding in high speed machines
- Heat resistant
- Tolerates mechanical stresses during winding
- Resistant to aggressive impregnating agents
- Resistant to transformer oil
- Resistant to refrigerants

**Field of application**

- Electric motors
- Oil-cooled transformers
- Dry-insulated transformers
- Chokes for fluorescent tubes
- Hermetic compressors
- Small transformers
- Coils, all types

**Dimension range**

DAMID Grade 1  $0,200 \leq \varnothing < 0,710$  mm  
DAMID Grade 2  $0,200 \leq \varnothing < 0,710$  mm

**Reels**

Dimension/mm	Standard reel
Gr 1 $0,200 \leq \varnothing < 0,630$	200, 250/400
Gr 1 $0,630 \leq \varnothing < 0,710$	250, 250/400
Gr 2 $0,200 \leq \varnothing < 0,630$	200, 250/400
Gr 2 $0,630 \leq \varnothing < 0,710$	250, 250/400, 400/630

**Properties for DAMID, independent of dimension**

Characteristics	Test method	Property values
<b>Thermal properties</b>		
Heat shock	IEC 60851 - 6.3	$\geq 220^{\circ}\text{C}$ , $1 \times \varnothing$
Cut-through	IEC 60851 - 6.4	$\geq 340^{\circ}\text{C}$
Temperature index	IEC 60851 - 6.5	$\geq 200^{\circ}\text{C}$
<b>Electrical properties</b>		
Conductor resistance (R)	IEC 60851 - 5.3	$0,01709 \Omega\text{mm}^2/\text{m}$
Conductivity	$1/R$	$> 58 \text{ m}/(\Omega\text{mm}^2)$
<b>Chemical properties</b>		
Resistance to solvents	IEC 60851 - 4.3	$< 15$ (5H)
Resistance to refrigerants	IEC 60851 - 4.4	$< 0,1\%$
Resistance to transformer oil/water	IEC 60851 - 4.6.1	$< 30\%$

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## Properties specific dimension

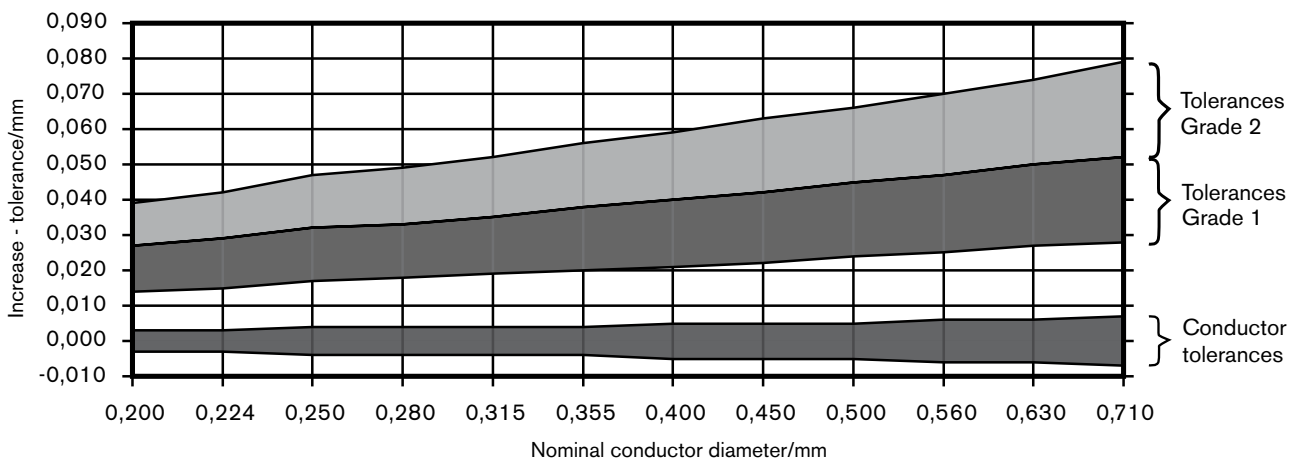
Typical test results compared to the IEC standard values

Dimension mm	1) Elongation at fracture		2) Mandrel winding test		3) Electrical breakdown voltage	
	%		%		kV	
	IEC	<sup>4)</sup> DT	IEC	<sup>4)</sup> DT	IEC	<sup>4)</sup> DT
<b>Selection of types</b>						
0,200 - Grade 1	21	34	0	20	1,8	6,5
0,200 - Grade 2	21	34	0	20	3,5	7,5
0,315 - Grade 1	23	36	0	15	2,1	6,7
0,315 - Grade 2	23	36	0	15	4,0	8,0
0,500 - Grade 1	25	40	0	15	2,4	7,0
0,500 - Grade 2	25	40	0	15	4,6	8,5
0,630 - Grade 1	28	45	0	10	2,6	7,5
0,630 - Grade 2	28	45	0	10	4,8	9,8

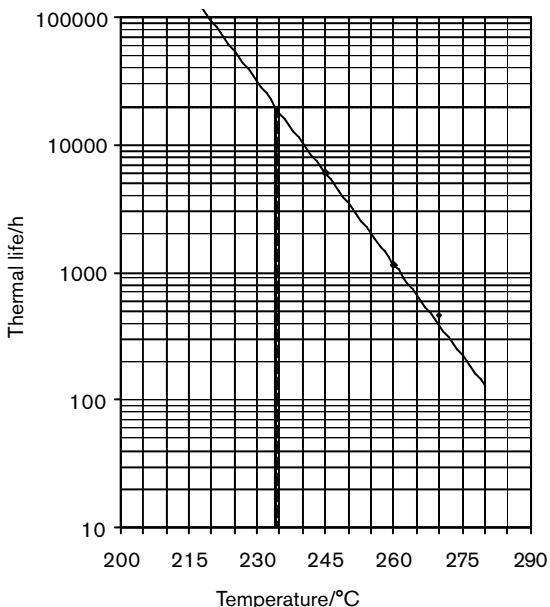
### Comments:

<sup>1)</sup> IEC 60851 - 3.2 Percentage of elongation at fracture of conductor. <sup>2)</sup> IEC 60851 - 3.3 Refers to stretch of the wire before winding over its own diameter. <sup>3)</sup> IEC 60851 - 5.3 The voltage is measured between a twisted pair of enamelled conductors. <sup>4)</sup> DT = Dahréntråd

## Dimensions - Tolerances



## Temperature index according to IEC 60172



The technical data included is up to date at the time of printing. Dahréntråd reserve the right to make any amendments deemed necessary.

**dahréntråd**

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