



DAMID PE AL

Round enamelled winding wire of aluminium, heat resistant, class 200

Product name

DAMID PE AL - Grade 2

UL approval

DAMID PE AL, E101843, MW 35-C

Specification

IEC 60317-25
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 polyester
Over coat: Polyamid-imide

Properties

- Heat resistant
- Resistant to transformer oil

Field of application

- Lightweight designs
- Electric motors
- Oil-cooled transformers
- Dry-insulated transformers
- Welding transformers

Dimension range

DAMID PE AL Grade 2 $1,180 \leq \varnothing \leq 4,000 \text{ mm}$

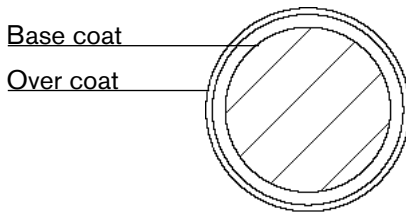
Package

Dimension/mm

$1,180 \leq \varnothing \leq 4,000$

Standard packaging

515



Properties for DAMID PE AL, independent of dimension

Characteristics	Test method	Property values
Thermal properties		
Heat shock	IEC 60851 - 6.3	$\geq 220^{\circ}\text{C}$, 3 x \varnothing
Cut-through	IEC 60851 - 6.4	$\geq 340^{\circ}\text{C}$
Temperature index	IEC 60851 - 6.5	$\geq 200^{\circ}\text{C}$
Electrical properties		
Conductor resistance (R)	IEC 60851 - 5.3	$0,02789 \Omega\text{mm}^2/\text{m}$
Conductivity	1/R	$> 35,5 \text{ m}/(\Omega\text{mm}^2)$
Chemical properties		
Resistance to solvents	IEC 60851 - 4.3	14 (4H)
Resistance to refrigerents	IEC 60851 - 4.4	$< 0,1\%$

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Properties specific to 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	^{4)DT}	IEC	^{4)DT}	IEC	^{4)DT}
Selection of types						
1,180	15	25	D = 3xØ	D = 2xØ	5,0	10,0
2,000	15	25	15	20	5,0	10,0
4,000	15	25	15	20	2,5	5,0

Comments:

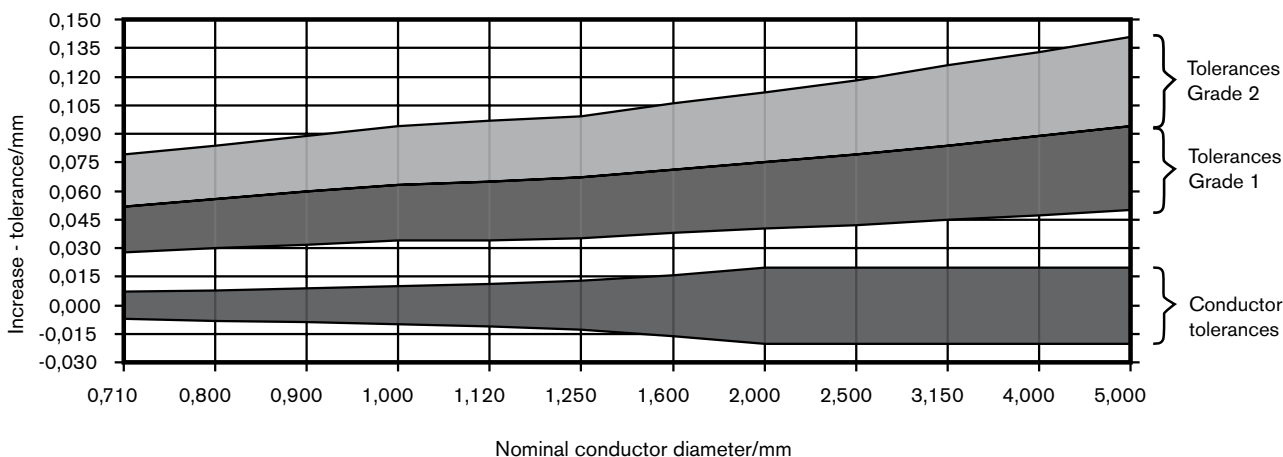
¹⁾ IEC 60851 - 3.2 Percentage elongation at fracture of conductor.

²⁾ IEC 60851 - 3.3 Refers to winding on mandrel of diameter D for $\varnothing \leq 1,600$, otherwise stretch of the winding wire followed by inspection for cracks in the enamel.

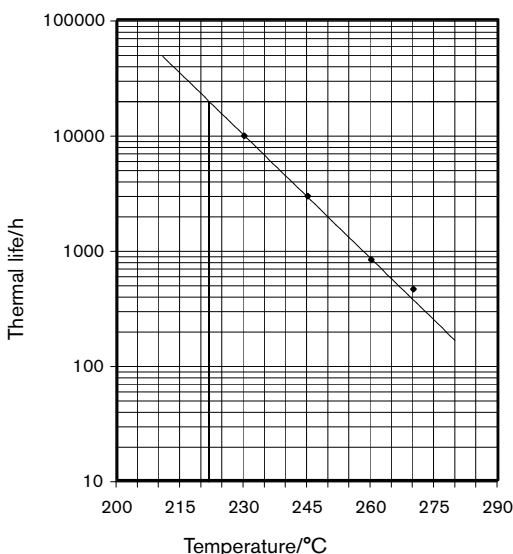
³⁾ IEC 60851 - 5.3 The voltage is measured between a twisted pair of enamelled conductors for $\varnothing \leq 2,500$, otherwise the voltage is measured between a single conductor and an earth connected bullet bath.

⁴⁾ 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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