



DAMID PE

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

Product name

DAMID PE - Grade 1
DAMID PE - Grade 2

UL approval

DAMID PE, E101843, MW 35-C

Specification

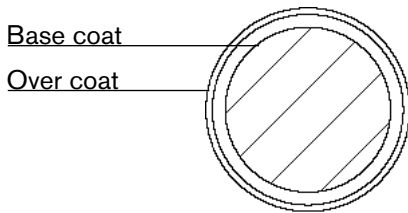
IEC 60317-13
NEMA MW 35-C

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 polyester
Over coat: Polyamid-imide



Properties

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

Field of application

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

Dimension range

DAMID PE Grade 1 $0,710 \leq \varnothing \leq 0,950$ mm
DAMID PE Grade 2 $0,710 \leq \varnothing \leq 5,000$ mm

Reels

Dimension/mm

Gr 1 $0,710 \leq \varnothing \leq 0,950$ 250, 250/400
Gr 2 $0,710 \leq \varnothing < 1,500$ 250, 250/400, 400/630
Gr 2 $1,500 \leq \varnothing < 1,800$ 250, 250/400, 400/630, 355,
Gr 2 $1,800 \leq \varnothing \leq 2,650$ 515
Gr 2 $2,650 < \varnothing \leq 4,250$ 250, 355, 515
Gr 2 $4,250 < \varnothing \leq 5,000$ 355, 515

Standard reel

250, 250/400
250, 250/400, 400/630
250, 250/400, 400/630, 355,
515
250, 355, 515
355, 515
355

Properties for DAMID PE, independent of dimension

Characteristics	Test method	Property values
Thermal properties		
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	$\geq 200^{\circ}\text{C}$
Electrical properties		
Conductor resistance (R)	IEC 60851 - 5.3	$0,01709 \Omega\text{mm}^2/\text{m}$
Conductivity	$1/R$	$> 58 \text{ m}/(\Omega\text{mm}^2)$
Chemical properties		
Resistance to solvents	IEC 60851 - 4.3	< 15 (5H)
Resistance to refrigerents	IEC 60851 - 4.4	$< 0,1\%$
Resistance to transformer oil/water	IEC 60851 - 4.6.1	$< 30\%$

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Properties specific dimension

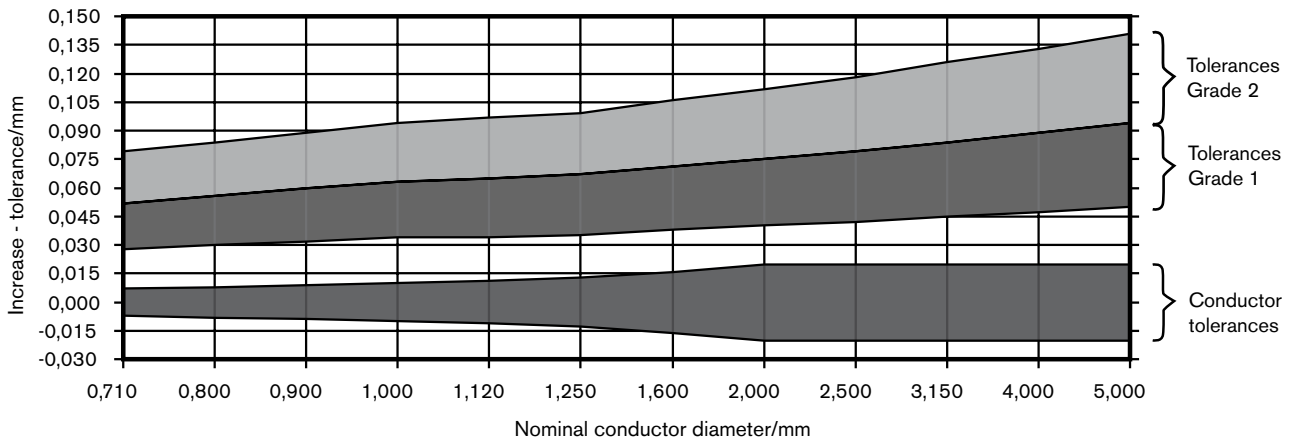
Typical test results compared to the IEC standard values

Dimension mm	1) Elongation at fracture		2) Mandrel winding test		3) Electrical breakdown voltage	
	%		%		kV	
	IEC	^{4)DT}	IEC	^{4)DT}	IEC	^{4)DT}
Selection of types						
0,710 - Grad 1	28	45	0	10	2,6	8,5
0,710 - Grad 2	28	45	0	10	4,8	10,0
1,000 - Grad 1	30	45	0	10	2,7	9,5
1,000 - Grad 2	30	45	0	10	5,0	10,0
1,400 - Grad 1	32	45	0	10	2,7	10,0
1,400 - Grad 2	32	45	0	10	5,0	10,0
2,240 - Grad 2	33	45	0	10	5,0	10,0

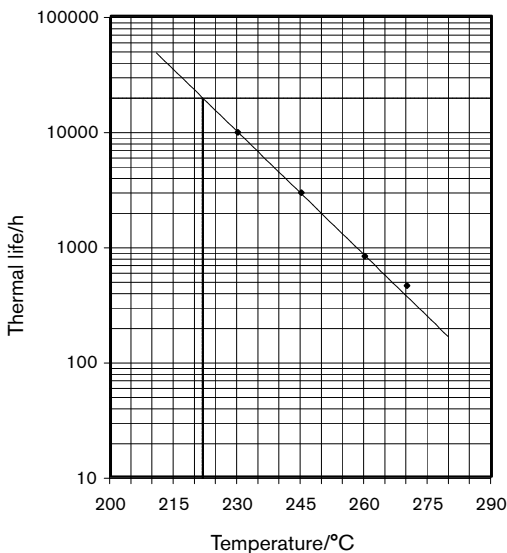
Comments:

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

Dimensions - Tolerances



Temperature index according to IEC 60172



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

dahrétråd 

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