

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

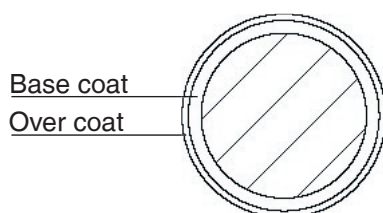
IEC 60317-13
NEMA MW 35-C

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 $0,710 \leq \varnothing \leq 0,950 \text{ mm}$
DAMID PE Grade 2 $0,710 \leq \varnothing \leq 5,000 \text{ mm}$

Reels

Dimension/mm	Standard reels
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, 515
Gr 2 $1,800 \leq \varnothing \leq 2,650$	250, 355, 515
Gr 2 $2,650 < \varnothing \leq 4,250$	355, 515
Gr 2 $4,250 < \varnothing \leq 5,000$	355

Properties for DAMID PE, independent of dimension

CHARACTERISTICS	TEST METHOD	PROPERTY VALUE
Thermal properties Heat shock Cut-through Temperature index	<i>IEC 60851 - 6.3</i> <i>IEC 60851 - 6.4</i> <i>IEC 60851 - 6.5</i>	$\geq 220^{\circ}\text{C}$, 1 x $\varnothing$ $\geq 340^{\circ}\text{C}$ $\geq 200^{\circ}\text{C}$
Electrical properties Conductor resistance (R) Conductivity	<i>IEC 60851 - 5.3</i> 1/R	$0,01709 \Omega\text{mm}^2/\text{m}$ $> 58 \text{ m}/(\Omega\text{mm}^2)$
Chemical properties Resistance to solvents Resistance to refrigerents Resistance to transformer oil/water	<i>IEC 60851 - 4.3</i> <i>IEC 60851 - 4.4</i> <i>IEC 60851 - 4.6.1</i>	15 (5H) $< 0,1\%$ $< 30\%$

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Properties specific to dimension

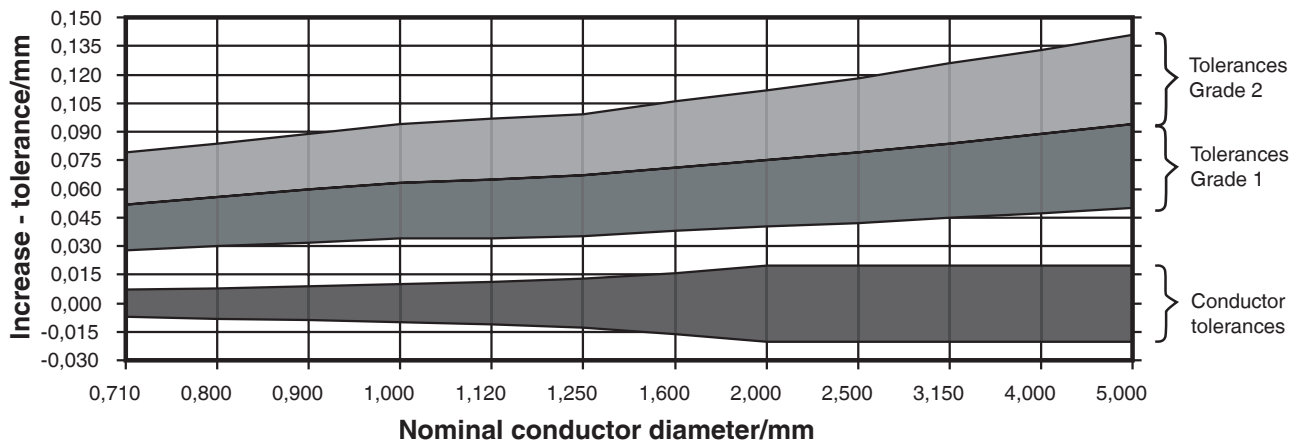
Typical test results compared to the IEC standard values

Dimension mm	¹⁾ Elongation at fracture		²⁾ Mandrel winding test		³⁾ Electrical breakdown voltage	
	%		%		kV	
	IEC	⁴⁾ DT	IEC	⁴⁾ DT	IEC	⁴⁾ DT
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

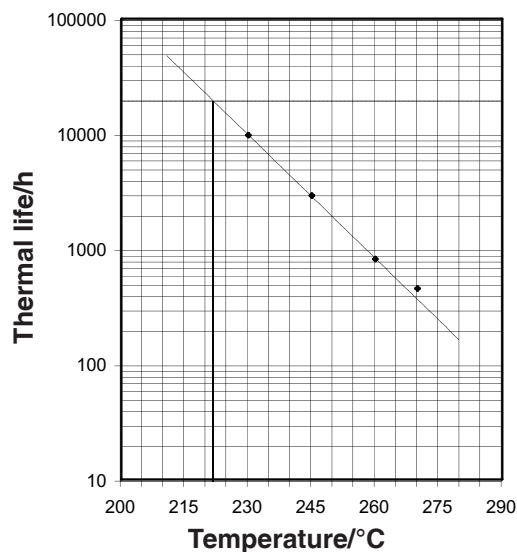
Comments:

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 = 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.

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DAMID PE

Rund lackerad lindningstråd av koppar, värmebeständig, klass 200

Produktnamn

DAMID PE - Grad 1
DAMID PE - Grad 2

UL godkännande

DAMID PE, E101843, MW 35-C

Normer

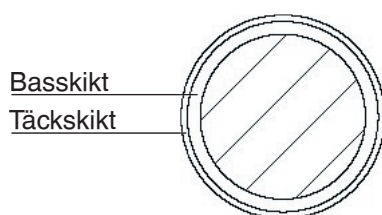
IEC 60317-13
NEMA MW 35-C

Klass 200

Temperaturindex $\geq 200^{\circ}\text{C}$ enligt IEC 60172
Värmechock $\geq 220^{\circ}\text{C}$

Isolering

Basskikt: THEIC-modifierad polyester
Täckskikt: Polyamidimid



Egenskaper

- Värmebeständig
- Tålig mot mekaniska påkänningar vid lindning
- Lämplig för lindning i höghastighetsmaskiner
- Motståndskraftig mot aggressiva impregneringsmedel.
- Beständig mot transformatorolja
- Freonbeständig

Användningsområden

- Elektriska motorer
- Oljekylade transformatorer
- Torrisolade transformatorer
- Lysrörsdrosslar
- Spolar av alla typer

Dimensionsområde

DAMID PE Grad 1 $0,710 \leq \varnothing \leq 0,950 \text{ mm}$
DAMID PE Grad 2 $0,710 \leq \varnothing \leq 5,000 \text{ mm}$

Emballage

Dimension/mm	Standardemballage
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
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Dimensionsberoende egenskaper DAMID PE

KARAKTÄRISTIKA	PROVMETOD	EGENSKAPSVÄRDE
Termiska egenskaper Värmechock Termoplasticitet Temperaturindex	IEC 60851 - 6.3 IEC 60851 - 6.4 IEC 60851 - 6.5	$\geq 220^{\circ}\text{C}$, $1 \times \varnothing$ $\geq 340^{\circ}\text{C}$ $\geq 200^{\circ}\text{C}$
Elektriska egenskaper Ledningsmotstånd (R) Konduktivitet	IEC 60851 - 5.3 1/R	$0,01709 \Omega\text{mm}^2/\text{m}$ $> 58 \text{ m}/(\Omega\text{mm}^2)$
Kemiska egenskaper Beständighet mot lösningsmedel Beständighet mot freon Beständighet mot transformatorolja/vatten	IEC 60851 - 4.3 IEC 60851 - 4.4 IEC 60851 - 4.6.1	15 (5H) $< 0,1\%$ $< 30\%$

DAMID PE

Rund lackerad lindningstråd av koppar, värmebeständig, klass 200

Dimensionsspecifika egenskaper

Typiska provningsresultat jämfört med IECs normerade värden

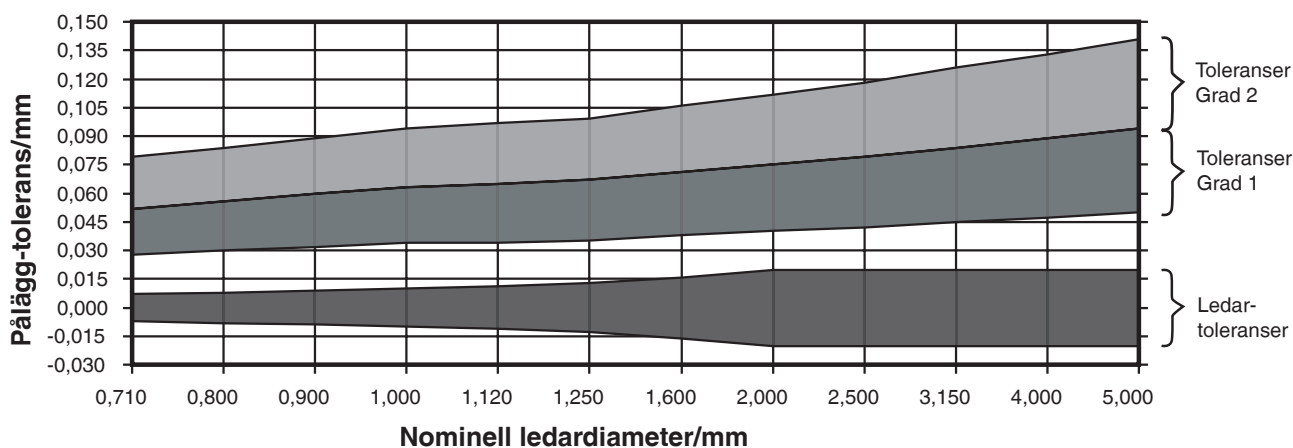
Dimension mm	1)Brottöjning		2)Förtöjning - lindning på dorn		3)Elektrisk genom- slagshållfasthet	
	%		%		kV	
	IEC	4)DT	IEC	4)DT	IEC	4)DT
0,710 - Grad 1	28	45	0	10	2,6	8,5
0,710 - Grad 2	28	45	0	10	4,8	10,0
1,000 - Grad 1	30	45	0	10	2,7	9,5
1,000 - Grad 2	30	45	0	10	5,0	10,0
1,400 - Grad 1	32	45	0	10	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

Kommentarer:

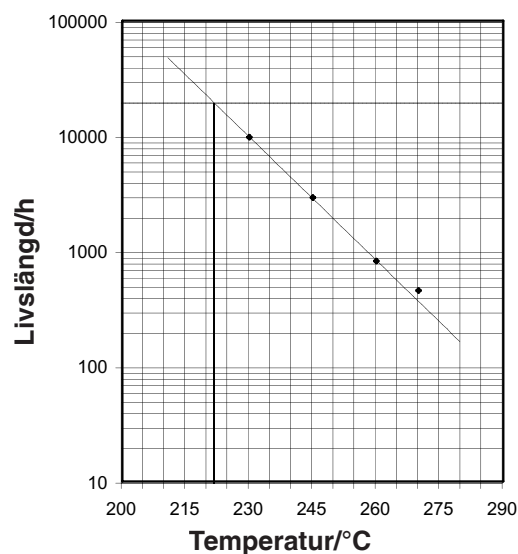
1) IEC 60851 - 3.2 Procent töjning till ledarens brott 2) IEC 60851 - 3.3 Avser förtöjning före lindning över egen diameter

3) IEC 60851 - 5.3 Spänningen mäts mellan två twistade lackerade ledare 4) DT = Dahréntråd

Dimensioner - Toleranser



Temperaturindex enligt IEC 60172



Tekniska data enligt information tillgänglig inför tryckning.
Rätten till ändringar förbehålles.

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