DAKAP CR

Rectangular conductor of copper, wrapped with corona resistant PI-film, class 240

Product name:
Dakap CR

Specifications:
Internal LWW or customer specification

UL approval:
Not approved

Class: 240
Temperature index ≥ 240°C
Heat shock: ≥ 260°C

Insulation:
Corona resistant Polyimide-film

Properties:
- Outstanding thermal resistance
- Excellent resistance to humidity
- Very good resistance to partial discharges

Field of application:
- Traction motors
- Large industrial motors
- Generators

Standard packaging:
K500, VM630

Shelf life:
5 years, under normal ambient conditions

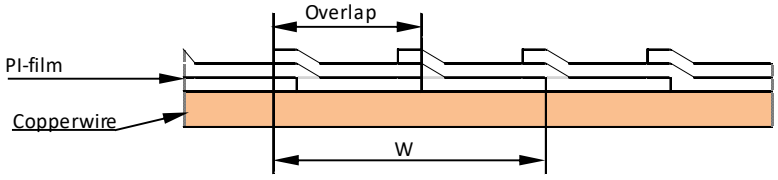
Conductor material
EN 1977 - ETP1 CW003 A
EN 1977 - ETP CW004A
ASTM B49 - ETP C11000/C11040

Conductor corner radius

Nominal thickness of conductor (*mm*)		Corner radius (*mm*)	Tolerance
Over	Up to and including		
-	1,00	0,5 nominal thickness	+/- 25%
1,00	1,60	0,50	+/- 25%
1,60	2,24	0,65	+/- 25%
2,24	3,55	0,80	+/- 25%
3,55	-	1,00	+/- 25%

Conductor tolerances

Nominal width or thickness of the conductor (mm)		Tolerance +/- (mm)
Over	Up to and including	
-	3,15	0,030
3,15	6,30	0,050
6,30	12,50	0,070
12,50	-	0,100



Standard insulation:

Designation	PI-film	Overlap	Width	Increase (doublesided)
Dakap 7050 CR	1 Polyimide-film	50%	11,1 mm	0,15 ± 0,03 mm
Dakap 7053 CR	1 Polyimide-film	53%	11,1 mm	0,23 ± 0,03 mm
Dakap 7031 CR	1 Polyimide-film	67%	11,1 mm	0,23 ± 0,03 mm
Dakap 7075 CR	1 Polyimide-film	75%	11,1 mm	0,30 ± 0,03 mm

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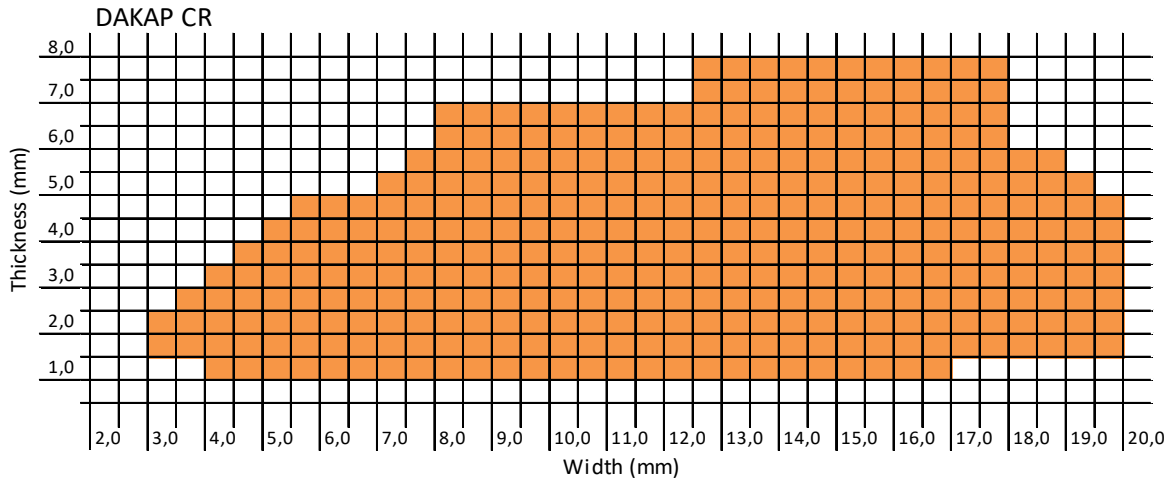
Properties for DAKAP CR

Main characteristics	Test method	Interval	Acceptance criteria
Thermal properties			
Heat shock	IEC 60851 - 6.3[1)]	1,00 ≤ t ≤ 7,00	≥ 260°C
Temperature index	IEC 60172	-	≥ 240°C[2)]
Electrical properties			
Conductor resistance	IEC 60851 - 5.3	[4)]	0,01724 Ωmm²/m
Conductivity	1/R	[4)]	> 58 m/(Ωmm²)
Breakdown voltage	IEC 60851 - 5.4[3)]	All sizes	> 5,0 kV
Mechanical properties			
Elongation	IEC 60851-3.3	1,00 ≤ t ≤ 2,50	≥ 30%
		t > 2,50	≥ 32%
Springback angle	IEC 60851-3.4	All sizes	≤ 5°
Flexibility	IEC 60851-3.5		
- Bending edgewise		2 ≤ w ≤ 8 mm 8 < w ≤ 16 mm w > 16 mm	2 x width 4 x width 6 x width
- Bending flatwise		All sizes	2 x thickness
Adherence -Cut and stretch	IEC 60851-3.5	All sizes	20% stretch, Loss of adhesion max. 1mm

1. Performed on straight piece
2. According to supplier certificate
3. Bent according to flexibility test
4. Dependence of dimension is expressed by the unit

Dimension range



The technical data included is up to date at the time of printing.

LWW reserves the right to make any amendments deemed necessary. Ed.A(3)

Certified according to ISO 9001, IATF 16949, ISO 14001

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