PHILIPS IDMAN

Subject to modifications.

Isolating transformers

KR

Specification

- FAA AC 150 / 5345 - 47A
- ICAO Aerodrome Design Manual: Part 5 Electrical Systems
- IEC 61823

Application

- Isolating transformers for use in series fed circuits in airfield lighting.

Installation

- Into transformer case.
- Directly into the ground.

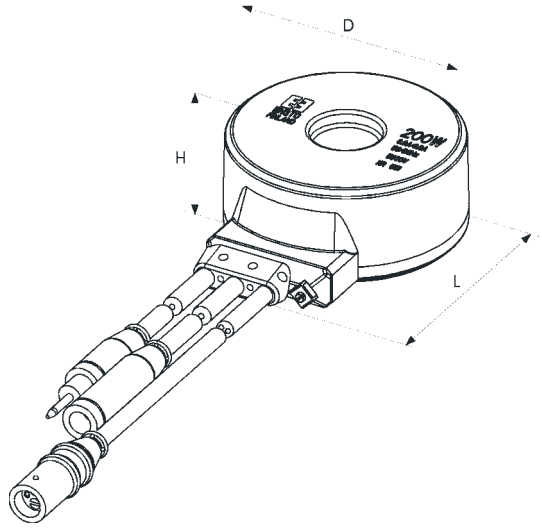
Mechanical construction

- Encapsulated in thermoplastic elastomer (TPE).
- Excellent electrical and mechanical properties.
- Excellent resistance to oil, kerosene, other aircraft fuel, soil acids and alkalis as well as other chemicals typically present on airfields.
- Two copper windings, one primary and one secondary, wound separately on a toroidal magnetic core circuit and insulated completely from each other.
- Two primary leads, length 0,6 m, cable type AWG 8 (8,3 mm2), 6 kV. One lead with FAA L823, style 2 plug. One lead with FAA L823, style 9 receptacle.
- One secondary lead, length 1,2 m cable type 2 x 2,5 mm2, 1 kV. FAA style 7 receptacle.
- With or without earthing.

The earthing connector is connected to the secondary winding which is connected to the larger socket of the secondary connector.

Dimensions

Type	D, mm	L, mm	H, mm	Weight, kg
KR 531	100	125	55	1,7
KR 536	126	167	56	2,5
KR 541	147	193	54	3
KR 546	147	193	64	3,8
KR 551	147	193	64	3,8
KR 561	147	193	73	4,8



Technical data

Type with earthing	*Type without earthing*	*Nominal power rating*	*Isolation voltage rating*	*Test voltage*	*Current rating*	*Frequency*	*Efficiency*	*Power factor*	*Max secondary cable length (4mm²) **	*Max secondary cable length (2,5mm²) **
KR 531	KR 531.1	30 / 45 W	5000 V	10 kV	6,6/6,6 A	50/60 Hz	0,85	0,97	20 m	12 m
KR 536	KR 536.1	65 W	5000 V	10 kV	6,6/6,6 A	50/60 Hz	0,85	0,97	29 m	18 m
KR 541	KR 541.1	100 W	5000 V	10 kV	6,6/6,6 A	50/60 Hz	0,90	0,97	45 m	28 m
KR 546	KR 546.1	150 W	5000 V	10 kV	6,6/6,6 A	50/60 Hz	0,90	0,97	67 m	42 m
KR 551	KR 551.1	200 W	5000 V	10 kV	6,6/6,6 A	50/60 Hz	0,90	0,97	90 m	56 m
KR 561	KR 561.1	300 W	5000 V	10 kV	6,6/6,6 A	50/60 Hz	0,90	0,97		

Note! The length of secondary cable can be increased by selecting a bigger transformer or cable.

* Maximum overload of the transformer 20%