

PRODUCT DATASHEET

Transformers to series circuit

KR500



FAA AC 150 5345-47, L-830 / L-831, 60 Hz / 50 Hz EN 61823



KR500 is used to supply the current in the AGL circuit and to provide a separation point between the primary and secondary circuits. KR500 series offers standard transformer features. Transformers are Intertek certified to FAA AC. They also comply with ICAO Annex 14 and MAK.

- Rated power 30–300 W
- Rated current 6.6 A/6.6 A , other currents upon request
- Rated voltage 5000 V/600 V
- Power factor > 0.97





Materials

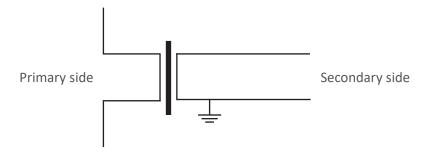
- Thermoplastic elastomer (TPE) is a modern material with excellent electrical and mechanical properties, which has great resistance against typical chemicals used at airfields, weathering, UV-radiation and ozone exposure, as well as temperature effects up to 135 °C (275 °F).
- Tin-plated copper or brass for the contact parts, while the socket is supplied with a copper beryllium sleeve-type spring, ensuring adequate contact pressure.

Connections

	Standard KR500 series
Primary leads	2 x 60 cm/1.969 ft, 1 x 6 mm ²
Primary connector type	FAA L-823 Style 2 Plug & Style 9 Receptacle
Secondary lead	1 x 1.2 m/3.937 ft, 2 x 2.5 mm ²
Secondary connector type	FAA-L-823 Style 8

KR500 with or without earthing (grounding)

EFLA supplies transformers with or without earthing. The earthing is connected to the end of the secondary winding on the side of the larger socket. This means that the bigger socket of the secondary side is grounded.



Customized transformers

In addition to our standard 6.6 A/6.6 A series isolation transformers, EFLA can develop and supply customized transformers according to various technical requests and global specifications. Please contact us to discuss further about your needs.





Electrical information

EFLA Type with Earthing	EFLA Type without Earthing	FAA Type	Rated Power [W]	Rated Current [A]	Power Range [W]	Load [Ω]	Efficiency [%]	Power Factor
KR531	KR531.1	L-830-1 L-831-1	30/45	6.6/6.6	25–60	0.57-1.38	> 85	> 0.97
KR536	KR536.1	L-830-3 L-831-3	65	6.6/6.6	50-85	1.15-1.95	> 85	> 0.97
KR541	KR541.1	L-830-4 L-831-4	100	6.6/6.6	80–125	1.84-2.87	> 85	> 0.97
KR546	KR546.1	L-830-18 L-831-18	150	6.6/6.6	120–178	2.75-4.08	> 90	> 0.97
KR551	KR551.1	L-830-6 L-831-6	200	6.6/6.6	160–230	3.67-5.28	> 90	> 0.97
KR561	KR561.1	L-830-10 L-831-10	300	6.6/6.6	220–338	5.05-7.75	> 90	> 0.97

Leakage Inductances

EFLA Type with Earthing	EFLA Type without Earthing	Power [W]	Short Circuited voltage [V]	L (magn) [mH]	L (leak) [mH]
KR531	KR531.1	30/45	< 6.7	16.0	< 0.47
KR536	KR536.1	65	< 6.7	19.0	< 1.1
KR541	KR541.1	100	< 6.7	14.0	< 1.1
KR546	KR546.1	150	< 6.7	24.0	< 2.0
KR551	KR551.1	200	< 6.7	25.0	< 2.0
KR561	KR561.1	300	< 6.7	35.0	< 3.8

Dimensions

EFLA Type with Earthing	EFLA Type without Earthing	D [mm]	L [mm]	H [mm]	Weight [kg]
KR531	KR531.1	105	128	57	1.6
KR536	KR536.1	125	167	60	1.9
KR541	KR541.1	146	192	60	3.0
KR546	KR546.1	146	192	60	3.1
KR551	KR551.1	146	192	65	3.3
KR561	KR561.1	146	192	77	4.0



Temperature rise values

Туре	Pri. temp rise [C°]	Sec. temp rise [C°]
KR531	28	25
KR536	41	25
KR541	41	38
KR546	40	33
KR551	50	40
KR561	65	59

Accessories

Transformer hanger

STAINLESS STEEL AISI316 hanger to place transformers in good order and away from water and dirt in underground pit holes. There are two ways to install hanger; either by screwing it on the wall or hanging it on rail.



