



# Airport Lighting Equipment

## ISOLATING TRANSFORMERS FOR SERIES CIRCUITS

The latest INDUPERM range of isolating transformers for 5 kV series circuits were developed and constructed for operation directly buried in the ground, or above surface under extreme climatic, chemical and electrical conditions.

The transformers are specially developed to operate as current transformers in series circuits with specifications based on FAA-AC No. 150/5345-47A, IEC 61823 and Cenelec ENV50232.

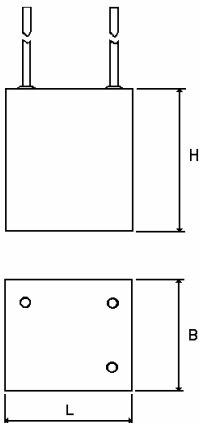
The construction is based on cores with very low magnetic losses. The primary and secondary coils are separated from each other and protected against extreme transient voltage peaks.

The transformers are encapsulated to a watertight unit in a polyurethane resin, resistant against normally existing chemicals and liquids in airports.

The transformers can be selected for various current ratios, f.i. 6,6/6,6A, 8,3/6,6A, 10/6,6A or 20/6,6A

LAMP RATING [W]	TYPE NO.	W x L x H [mm]			WEIGHT [kg]
45	29.0z1.PS3	92	102	120	3,2
65	29.0z6.PS3	92	107	135	3,9
100	29.0z2.PS3	97	107	135	4,1
150	29.0z3.PS3	97	112	145	4,8
200	29.0z4.PS3	107	122	160	6,0
300	29.0z5.PS3	117	122	160	7,5
500	29.0z7.PS3	140	160	215	15,0

Z is a code for nominal primary current.  
PS is a code for primary and secondary cable types.  
See next page.



### FEATURES:

- STURDY MECHANICAL CONSTRUCTION.
- RESISTANT AGAINST -WATER, OIL, JET-FUEL, UREA etc.
- HIGH EFFICIENCY.
- HIGH POWERFACTOR.
- HIGH RATIO ACCURACY.
- HIGH DIELECTRIC RESISTANCE.
- LOW LOADVARIATION.
- ALSO AVAILBLE FOR 60 Hz
- TEMPERATURERANGE FROM - 30°C TO + 65°C.
- MAXIMUM TEMPERATURERISE < 55°C.
- NAMEPLATE MOULDED INTO THE CASE SURFACE.

**Know-how within:**

- Engineering and design of visual aids
- Manufacture, installation and maintenance

TYPE	NOMINEL POWER [W]	MAX LOAD [W]	EFFICIENCY	POWER FACTOR	RATIO TESTS	
					LOW LOAD [W] ( $I_2 < 6,70A$ )	HIGH LOAD [W] ( $I_2 \geq 6,53A$ )
29.0z1.PS3	45	67	> 0,81	> 0,99	5	57
29.0z6.PS3	65	100	> 0,83	> 0,99	7	83
29.0z2.PS3	100	144	> 0,85	> 0,99	10	126
29.0z3.PS3	150	194	> 0,87	> 0,99	13	183
29.0z4.PS3	200	244	> 0,90	> 0,99	18	231
29.0z5.PS3	300	360	> 0,90	> 0,99	35	344
29.0z7.PS3	500	544	> 0,90	> 0,99	48	540

#### Code Z

Z	0	1	2	3	4	5	6
RATIO	6,6/6,6A	6,6/6,6A	20/6,6A	20/6,6A	8,3/6,6A	8,3/6,6A	6,6/8,3A
EARTH TERMINAL	No	Yes	No	Yes	No	Yes	No
Z	7	8	9				
RATIO	6,6/8,3A	10/6,6A	10/6,6A				
EARTH TERMINAL	Yes	No	Yes				

#### Codes for Primary and Secondary cables:

	0	1	2	3	4	5	6	7
<b>P</b> PRIMARY CABLE	2 x 0,8 m 1 x 6mm <sup>2</sup> No conn.	2 x 0,8 m 1 x 6mm <sup>2</sup> FAA conn. (male+female)	2 x 0,8 m 1 x 6mm <sup>2</sup> + 2,5 mm <sup>2</sup> screen No conn.	2 x 0,8 m 1 x 6mm <sup>2</sup> + 2,5 mm <sup>2</sup> screen FAA conn. (male+female)	2 x 0,8 m 1 x 6mm <sup>2</sup> + 6mm <sup>2</sup> screen No conn.			
<b>S</b> SECON- DARY CABLE	1 x 0,8 m 2 x 2,5 mm <sup>2</sup> No conn.	1 x 1,2 m 2 x 2,5mm <sup>2</sup> FAA conn. (female)	1 x 1,6 m 2 x 2,5 mm <sup>2</sup> No conn.	1 x 0,8 m 2 x 2,5 mm <sup>2</sup> FAA conn. (female)	1 x 1,0 m 2 x 2,5 mm <sup>2</sup> No conn.	1 x 2,2 m 2 x 2,5 mm <sup>2</sup> (AMP conn. included)	1 x 1,2 m 2 x 2,5 mm <sup>2</sup> Spec. FAA Female (2 x Ø 3,99)	1 x 1,2 m 2 x 1,5mm <sup>2</sup> FAA conn. (female)



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