Data sheet: Short Circuit Proof Safety Isolating Transformers Type AVB

Description.....: Safety isolating transformer constructed and tested according to
VDE 0570/EN 61 558, UL 506, CSA 22.2

Approvals .....: According to table

Test voltage..... PRI - SEC 5000 V, 50 Hz

Short-circuit protection .....: Inherently short-circuit proof

Construction.....: Open design, potted in insulation housing

Safety class .....: Prepared for class II equipment

Protection index .....: Connections IP 00
Housing IP 65

Max ambient temperature .....: According to table

Insulation class of the
insulation system.....: VDE (B= 130°C) ; UL+CSA Class 105 (A=105°C)

Input voltage .....: 2 x 115V

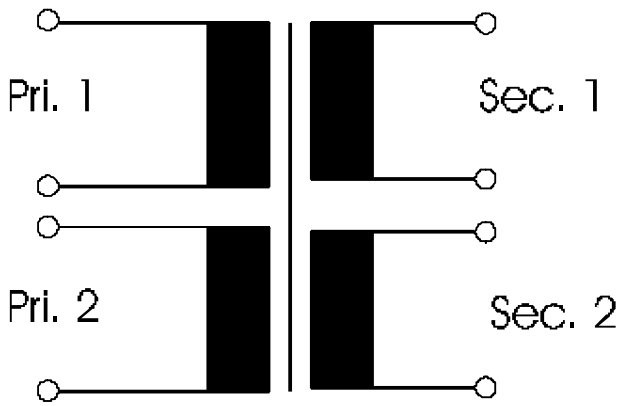
Frequency.....: 50 - 60 Hz

Output voltage.....: According to table

Connections .....: Soldering pins for printed circuit board mounting

Packing.....: Separately packed in cartons

Schematic plan :



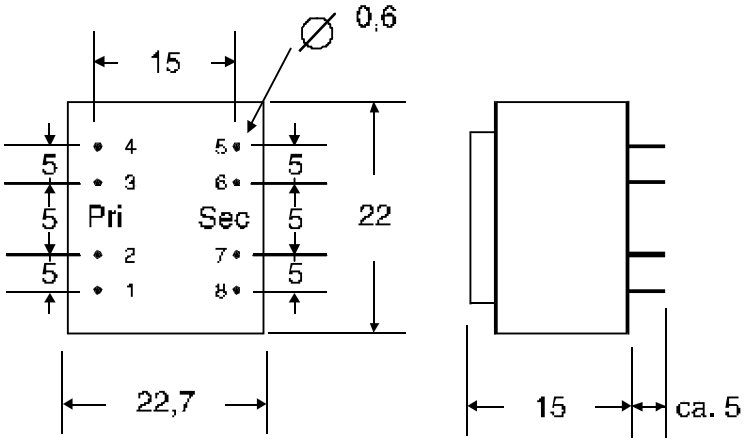
Description :

These AVB type resin moulded safety isolating transformers,
are inherently short-circuit proof so do not require external
protection. The dual input and output windings are for series or parallel connection.

Note :
* vacuum epoxy resin moulded (self-extinguishing to UL 94 V0)
* 100% tested
* Two chamber bobbin construction

Output power 0,35 VA Core-type EE 20/6,1
Height 15,0 mm Weight 24g
Ground area 22 mm x 22,7 mm

Type	SEC rated output-voltage V	current A	Approvals
AVB 0,35/2/6	2x6	2x0,029	1
AVB 0,35/2/8	2x8	2x0,021	1
AVB 0,35/2/9	2x9	2x0,019	1
AVB 0,35/2/12	2x12	2x0,014	1
AVB 0,35/2/15*	2x15	2x0,011	1
AVB 0,35/2/18*	2x18	2x0,009	1
AVB 0,35/2/24*	2x24	2x0,007	1



according to VDE 0570/EN 61 558 -1 : 1997 with part 2-6
* = according to VDE 0570/EN 61 558 -1 : 1997 with part 2-1

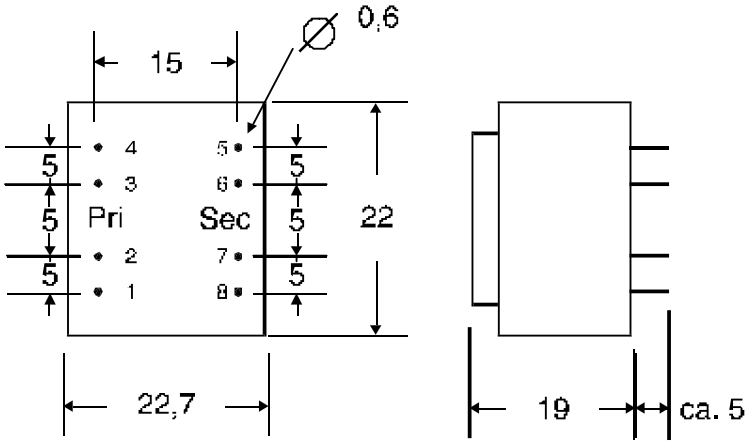
Pinning:
Input:2 x 115V..... (1-2) and (3-4)
Output ..... (5-6) and (7-8)

No load output voltage x Factor =	typ. 1,8
Core Losses	typ. 1,3 W
Efficiency	typ. 30 %
Ambient Temperature (ta)	+70°C

Approvals c US
(1)

Output power 0,5 VA Core-type EE 20/10,5
Height 19,0 mm Weight 35g
Ground area 22 mm x 22,7 mm

Type	SEC rated output-voltage V	current A	Approvals
AVB 0,5/2/6	2x6	2x0,041	1
AVB 0,5/2/8	2x8	2x0,031	1
AVB 0,5/2/9	2x9	2x0,027	1
AVB 0,5/2/12	2x12	2x0,020	1
AVB 0,5/2/15*	2x15	2x0,016	1
AVB 0,5/2/18*	2x18	2x0,013	1
AVB 0,5/2/24*	2x24	2x0,010	1



according to VDE 0570/EN 61 558 -1 : 1997 with part 2-6
* = according to VDE 0570/EN 61 558 -1 : 1997 with part 2-1

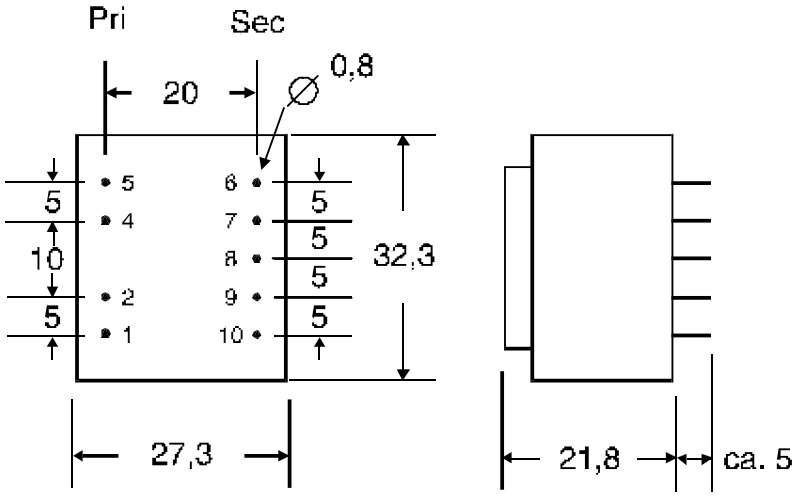
Pinning:
Input:2 x 115V..... (1-2) and (3-4)
Output ..... (5-6) and (7-8)

No load output voltage x Factor =	typ. 1,8
Core Losses	typ. 0,8 W
Efficiency	typ. 40 %
Ambient Temperature (ta)	+70°C

Approvals c US
(1)

Output power 1,0 VA Core-type EI 30/10,5
Height 21,8 mm Weight 72g
Ground area 32,3 mm x 27,3 mm

Type	SEC rated output-voltage V	current A	Approvals
AVB 1,0/2/6	2x6	2x0,083	1
AVB 1,0/2/8	2x8	2x0,062	1
AVB 1,0/2/9	2x9	2x0,055	1
AVB 1,0/2/12	2x12	2x0,041	1
AVB 1,0/2/15	2x15	2x0,033	1
AVB 1,0/2/18*	2x18	2x0,027	1
AVB 1,0/2/24*	2x24	2x0,020	1



according to VDE 0570/EN 61 558 -1 : 1997 with part 2-6
* according to VDE 0570/EN 61 558 -1 : 1997 with part 2-1

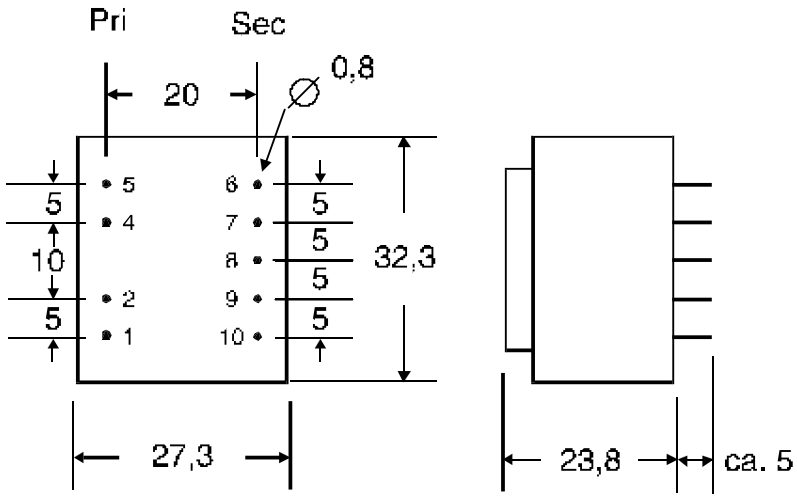
Pinning:
Input:2 x 115V..... (1-2) and (4-5)
Output ..... (10-9) and (7-6) pin 8 fitted but not connected.

No load output voltage x Factor =	typ. 1,32
Core Losses	typ. 0,6 W
Efficiency	typ. 55 %
Ambient Temperature (ta)	+70°C

Approvals (1)

Output power 1,5 VA Core-type EI 30/12,5
Height 23,8 mm Weight 84g
Ground area 32,3 mm x 27,3 mm

Type	SEC rated output-voltage V	current A	Approvals
AVB 1,5/2/6	2x6	2x0,125	1
AVB 1,5/2/8	2x8	2x0,093	1
AVB 1,5/2/9	2x9	2x0,083	1
AVB 1,5/2/12	2x12	2x0,062	1
AVB 1,5/2/15	2x15	2x0,050	1
AVB 1,5/2/18*	2x18	2x0,041	1
AVB 1,5/2/24*	2x24	2x0,031	1



according to VDE 0570/EN 61 558 -1 : 1997 with part 2-6
*according to VDE 0570/EN 61 558 -1 : 1997 with part 2-1

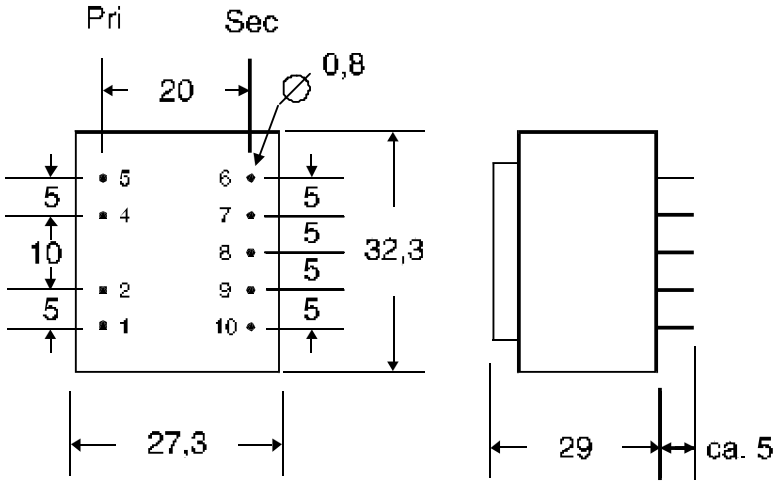
Pinning:
Input:2 x 115V..... (1-2) and (4-5)
Output ..... (10-9) and (7-6) pin 8 fitted but not connected.

No load output voltage x Factor =	typ. 1,39
Core Losses	typ. 0,6 W
Efficiency	typ. 57 %
Ambient Temperature (ta)	+70°C

Approvals (1)

Output power 2,3 VA Core-type EI 30/18
Height 29 mm Weight 110g
Ground area 32,3 mm x 27,3 mm

Type	SEC rated output-voltage V	current A	Approvals
AVB 2,3/2/6	2x6	2x0,191	1
AVB 2,3/2/8	2x8	2x0,143	1
AVB 2,3/2/9	2x9	2x0,127	1
AVB 2,3/2/12	2x12	2x0,095	1
AVB 2,3/2/15	2x15	2x0,076	1
AVB 2,3/2/18*	2x18	2x0,063	1
AVB 2,3/2/24*	2x24	2x0,047	1



according to VDE 0570/EN 61 558 -1 : 1997 with part 2-6
*according to VDE 0570/EN 61 558 -1 : 1997 with part 2-1

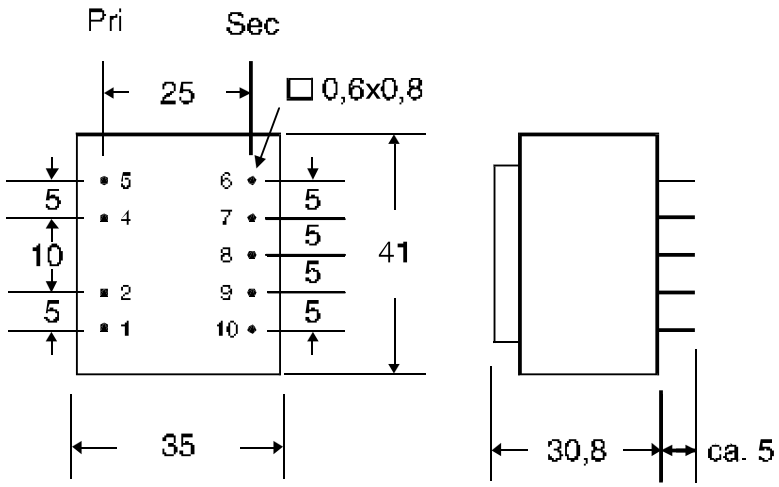
Pinning:
Input:2 x 115V..... (1-2) and (4-5)
Output ..... (10-9) and (7-6) pin 8 fitted but not connected.

No load output voltage x Factor =	typ. 1,43
Core Losses	typ. 0,6 W
Efficiency	typ. 59 %
Ambient Temperature (ta)	+70°C

Approvals (1)

Output power 3,2 VA Core-type EI 38/16,5
Height 30,8 mm Weight 173g
Ground area 41 mm x 35 mm

Type	SEC rated output-voltage V	current A	Approvals
AVB 3,2/2/6	2x6	2x0,266	1
AVB 3,2/2/8	2x8	2x0,20	1
AVB 3,2/2/9	2x9	2x0,177	1
AVB 3,2/2/12	2x12	2x0,133	1
AVB 3,2/2/15	2x15	2x0,106	1
AVB 3,2/2/18*	2x18	2x0,088	1
AVB 3,2/2/24*	2x24	2x0,066	1



according to VDE 0570/EN 61 558 -1 : 1997 with part 2-6
*according to VDE 0570/EN 61 558 -1 : 1997 with part 2-1

Pinning:
Input:2 x 115V..... (1-2) and (4-5)
Output ..... (10-9) and (7-6) pin 8 fitted but not connected.

No load output voltage x Factor =	typ. 1,57
Core Losses	typ. 0,47 W
Efficiency	typ. 58 %
Ambient Temperature (ta)	+50°C

Approvals (1)