



## Catalog

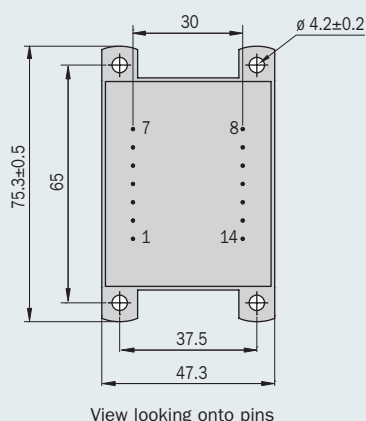


**HAHN QUALITY**  
Performance that builds trust.

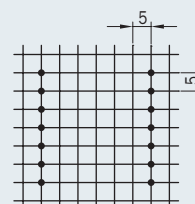
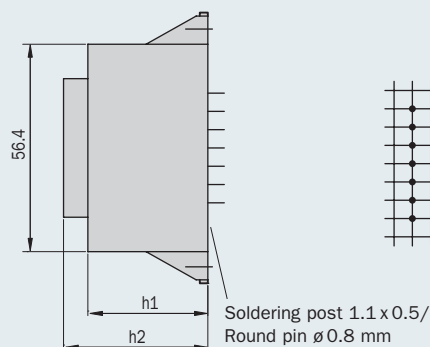


- Capacity up to 22.0 VA
- Non short-circuit-proof at temperature class ta 70 °C/B
- Standard type with 'KK' cast housing
- Test certifications to ENEC 10-, VDE- and UL-regulations\*
- with VDE certificate for glow wire test in accordance to standard EN 60335-1:2005
- Excellent temperature fluctuation resistance properties
- High electrical safety and long service-life features
- High voltage resistance
- Self-extinguishing cast housing and sealing material
- Certified item quality tested

Primary protection by means of transformer heat coils to IEC 127 standards or secondarily with PTC resistances.



View looking onto pins



Type 'KK' cast housing with 4 fixing straps

Dimensions without tolerances  $\pm 0.3$  mm,  
Rights to make alterations and improvements hereby reserved

| Frame size/Core height    | Output ta 70 °C/B | h1 (mm)            | h2 (mm)            | Weight   | Packaging unit |
|---------------------------|-------------------|--------------------|--------------------|----------|----------------|
| BV EI 540 .... / 14.0 mm* | 12.0 VA           | 28.6 $\pm$ 0.5 mm* | 35.0 $\pm$ 0.5 mm* | 0.350 kg | 24 pieces      |
| BV EI 541 .... / 18.8 mm  | 16.0 VA           | 32.0 $\pm$ 0.5 mm  | 38.8 $\pm$ 0.5 mm  | 0.400 kg | 24 pieces      |
| BV EI 542 .... / 23.0 mm  | 20.0 VA           | 36.5 $\pm$ 0.5 mm  | 43.2 $\pm$ 0.5 mm  | 0.500 kg | 24 pieces      |
| BV EI 543 .... / 25.5 mm  | 22.0 VA           | 40.5 $\pm$ 0.5 mm  | 47.4 $\pm$ 0.5 mm  | 0.550 kg | 24 pieces      |

\* Only in type '0'

| Order No.      | Total output VA | Frame Size | Primary voltage V | Connecting pins prim. | Secondary voltage V | Current sec. mA | Connecting pins sec. | No-load voltage V |
|----------------|-----------------|------------|-------------------|-----------------------|---------------------|-----------------|----------------------|-------------------|
| BV EI 540 1137 | 12.0            | 0          | 230               | 1-7                   | 1 x 6               | 2000            | 9-13                 | 1 x 8.1           |
| BV EI 540 1138 | 12.0            | 0          | 230               | 1-7                   | 2 x 6               | 1000            | 8-9/13-14            | 2 x 8.1           |
| BV EI 540 1139 | 12.0            | 0          | 230               | 1-7                   | 1 x 7.5             | 1600            | 9-13                 | 1 x 9.9           |
| BV EI 540 1140 | 12.0            | 0          | 230               | 1-7                   | 2 x 7.5             | 800             | 8-9/13-14            | 2 x 9.9           |
| BV EI 540 1141 | 12.0            | 0          | 230               | 1-7                   | 1 x 9               | 1333            | 9-13                 | 1 x 12.2          |
| BV EI 540 1142 | 12.0            | 0          | 230               | 1-7                   | 2 x 9               | 667             | 8-9/13-14            | 2 x 12.2          |
| BV EI 540 1143 | 12.0            | 0          | 230               | 1-7                   | 1 x 12              | 1000            | 9-13                 | 1 x 15.8          |
| BV EI 540 1144 | 12.0            | 0          | 230               | 1-7                   | 2 x 12              | 500             | 8-9/13-14            | 2 x 15.8          |
| BV EI 540 1145 | 12.0            | 0          | 230               | 1-7                   | 1 x 15              | 800             | 9-13                 | 1 x 19.4          |
| BV EI 540 1146 | 12.0            | 0          | 230               | 1-7                   | 2 x 15              | 400             | 8-9/13-14            | 2 x 19.4          |
| BV EI 540 1147 | 12.0            | 0          | 230               | 1-7                   | 1 x 18              | 667             | 9-13                 | 1 x 23.5          |
| BV EI 540 1148 | 12.0            | 0          | 230               | 1-7                   | 2 x 18              | 334             | 8-9/13-14            | 2 x 23.5          |
| BV EI 540 1149 | 12.0            | 0          | 230               | 1-7                   | 1 x 24              | 500             | 9-13                 | 1 x 30.6          |



Safety transformer

\* UL on request



UL US

| Frame size/Core height  | Output ta 70 °C/B | h1 (mm)       | h2 (mm)       | Weight   | Packaging unit |
|-------------------------|-------------------|---------------|---------------|----------|----------------|
| BV EI 541 .... /18.8 mm | 16.0 VA           | 32.0 ± 0.5 mm | 38.8 ± 0.5 mm | 0.400 kg | 24 pieces      |

| Order No.      | Total output VA | Frame Size | Primary voltage V | Connecting pins prim. | Secondary voltage V | Current sec. mA | Connecting pins sec. | No-load voltage V |
|----------------|-----------------|------------|-------------------|-----------------------|---------------------|-----------------|----------------------|-------------------|
| BV EI 541 1121 | 16.0            | 1          | 230               | 1–7                   | 1 x 6               | 2667            | 9–13                 | 1 x 7.9           |
| BV EI 541 1128 | 16.0            | 1          | 230               | 1–7                   | 2 x 6               | 1334            | 8–9/13–14            | 2 x 7.9           |
| BV EI 541 1122 | 16.0            | 1          | 230               | 1–7                   | 1 x 7.5             | 2134            | 9–13                 | 1 x 9.7           |
| BV EI 541 1129 | 16.0            | 1          | 230               | 1–7                   | 2 x 7.5             | 1067            | 8–9/13–14            | 2 x 9.7           |
| BV EI 541 1123 | 16.0            | 1          | 230               | 1–7                   | 1 x 9               | 1778            | 9–13                 | 1 x 11.7          |
| BV EI 541 1130 | 16.0            | 1          | 230               | 1–7                   | 2 x 9               | 889             | 8–9/13–14            | 2 x 11.7          |
| BV EI 541 1124 | 16.0            | 1          | 230               | 1–7                   | 1 x 12              | 1333            | 9–13                 | 1 x 15.2          |
| BV EI 541 1131 | 16.0            | 1          | 230               | 1–7                   | 2 x 12              | 667             | 8–9/13–14            | 2 x 15.2          |
| BV EI 541 1125 | 16.0            | 1          | 230               | 1–7                   | 1 x 15              | 1067            | 9–13                 | 1 x 19.1          |
| BV EI 541 1132 | 16.0            | 1          | 230               | 1–7                   | 2 x 15              | 534             | 8–9/13–14            | 2 x 19.1          |
| BV EI 541 1126 | 16.0            | 1          | 230               | 1–7                   | 1 x 18              | 889             | 9–13                 | 1 x 22.3          |
| BV EI 541 1150 | 16.0            | 1          | 230               | 1–7                   | 2 x 18              | 445             | 8–9/13–14            | 2 x 22.3          |
| BV EI 541 1110 | 16.0            | 1          | 230               | 1–7                   | 1 x 24              | 667             | 9–13                 | 1 x 29.1          |

| Frame size/Core height  | Output ta 70 °C/B | h1 (mm)       | h2 (mm)       | Weight   | Packaging unit |
|-------------------------|-------------------|---------------|---------------|----------|----------------|
| BV EI 542 .... /23.0 mm | 20.0 VA           | 36.5 ± 0.5 mm | 43.2 ± 0.5 mm | 0.500 kg | 24 pieces      |

| Order No.      | Total output VA | Frame Size | Primary voltage V | Connecting pins prim. | Secondary voltage V | Current sec. mA | Connecting pins sec. | No-load voltage V |
|----------------|-----------------|------------|-------------------|-----------------------|---------------------|-----------------|----------------------|-------------------|
| BV EI 542 1151 | 20.0            | 2          | 230               | 1–7                   | 1 x 6               | 3334            | 9–13                 | 1 x 7.7           |
| BV EI 542 1152 | 20.0            | 2          | 230               | 1–7                   | 2 x 6               | 1667            | 8–9/13–14            | 2 x 7.7           |
| BV EI 542 1153 | 20.0            | 2          | 230               | 1–7                   | 1 x 7.5             | 2667            | 9–13                 | 1 x 9.5           |
| BV EI 542 1154 | 20.0            | 2          | 230               | 1–7                   | 2 x 7.5             | 1334            | 8–9/13–14            | 2 x 9.5           |
| BV EI 542 1155 | 20.0            | 2          | 230               | 1–7                   | 1 x 9               | 2223            | 9–13                 | 1 x 11.4          |
| BV EI 542 1156 | 20.0            | 2          | 230               | 1–7                   | 2 x 9               | 1112            | 8–9/13–14            | 2 x 11.4          |
| BV EI 542 1157 | 20.0            | 2          | 230               | 1–7                   | 1 x 12              | 1667            | 9–13                 | 1 x 15.0          |
| BV EI 542 1158 | 20.0            | 2          | 230               | 1–7                   | 2 x 12              | 834             | 8–9/13–14            | 2 x 15.0          |
| BV EI 542 1159 | 20.0            | 2          | 230               | 1–7                   | 1 x 15              | 1334            | 9–13                 | 1 x 18.6          |
| BV EI 542 1160 | 20.0            | 2          | 230               | 1–7                   | 2 x 15              | 667             | 8–9/13–14            | 2 x 18.6          |
| BV EI 542 1161 | 20.0            | 2          | 230               | 1–7                   | 1 x 18              | 1112            | 9–13                 | 1 x 21.8          |
| BV EI 542 1162 | 20.0            | 2          | 230               | 1–7                   | 2 x 18              | 556             | 8–9/13–14            | 2 x 21.8          |
| BV EI 542 1163 | 20.0            | 2          | 230               | 1–7                   | 1 x 24              | 834             | 9–13                 | 1 x 29.5          |

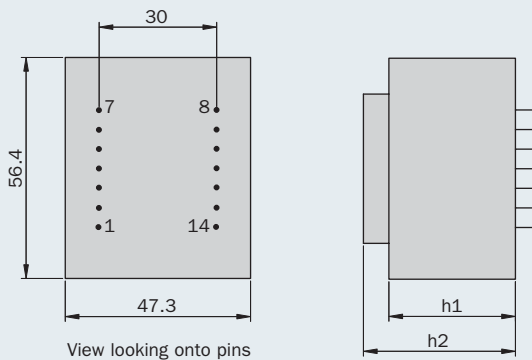
| Frame size/Core height  | Output ta 70 °C/B | h1 (mm)       | h2 (mm)       | Weight   | Packaging unit |
|-------------------------|-------------------|---------------|---------------|----------|----------------|
| BV EI 543 .... /25.5 mm | 22.0 VA           | 40.5 ± 0.5 mm | 47.4 ± 0.5 mm | 0.550 kg | 24 pieces      |

| Order No.      | Total output VA | Frame Size | Primary voltage V | Connecting pins prim. | Secondary voltage V | Current sec. mA | Connecting pins sec. | No-load voltage V |
|----------------|-----------------|------------|-------------------|-----------------------|---------------------|-----------------|----------------------|-------------------|
| BV EI 543 1166 | 22.0            | 3          | 230               | 1–7                   | 1 x 6               | 3667            | 9–13                 | 1 x 7.4           |
| BV EI 543 1167 | 22.0            | 3          | 230               | 1–7                   | 2 x 6               | 1834            | 8–9/13–14            | 2 x 7.4           |
| BV EI 543 1168 | 22.0            | 3          | 230               | 1–7                   | 1 x 7.5             | 2934            | 9–13                 | 1 x 8.9           |
| BV EI 543 1169 | 22.0            | 3          | 230               | 1–7                   | 2 x 7.5             | 1467            | 8–9/13–14            | 2 x 8.9           |
| BV EI 543 1170 | 22.0            | 3          | 230               | 1–7                   | 1 x 9               | 2445            | 9–13                 | 1 x 10.7          |
| BV EI 543 1171 | 22.0            | 3          | 230               | 1–7                   | 2 x 9               | 1223            | 8–9/13–14            | 2 x 10.7          |
| BV EI 543 1172 | 22.0            | 3          | 230               | 1–7                   | 1 x 12              | 1834            | 9–13                 | 1 x 14.5          |
| BV EI 543 1173 | 22.0            | 3          | 230               | 1–7                   | 2 x 12              | 917             | 8–9/13–14            | 2 x 14.5          |
| BV EI 543 1174 | 22.0            | 3          | 230               | 1–7                   | 1 x 15              | 1467            | 9–13                 | 1 x 17.9          |
| BV EI 543 1175 | 22.0            | 3          | 230               | 1–7                   | 2 x 15              | 734             | 8–9/13–14            | 2 x 17.9          |
| BV EI 543 1176 | 22.0            | 3          | 230               | 1–7                   | 1 x 18              | 1223            | 9–13                 | 1 x 21.0          |
| BV EI 543 1177 | 22.0            | 3          | 230               | 1–7                   | 2 x 18              | 612             | 8–9/13–14            | 2 x 21.0          |
| BV EI 543 1178 | 22.0            | 3          | 230               | 1–7                   | 1 x 24              | 917             | 9–13                 | 1 x 28.0          |

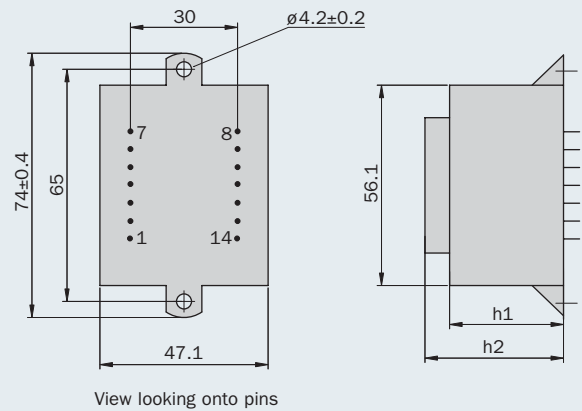
## Individual EI 54 transformer version

### EI 54 transformers, custom-made versions.

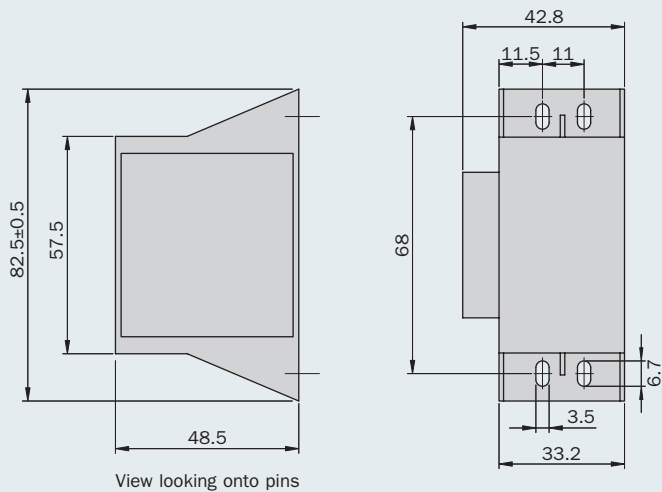
Parallel to the cataloged EI 54 series transformers, HAHN also produces other variants, e.g. with integrated thermo fuse or thermo switch, other housing-, fixing- and connective options as well as non-encapsulated transformers.



Type 'O' cast housing  
without fixing straps

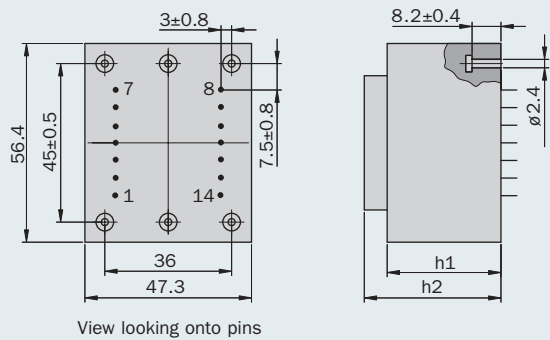


Type 'K' cast housing  
with 2 fixing straps



Type 'SV' for  
upright mounting

EI 54/18.8



Type 'O' cast housing  
with fixing band

Dimensions in drawings:  
– without tolerances  $\pm 0.3$  mm  
– Soldering post  $1.1 \times 0.5$   
– Round pin  $\varnothing 0.8$



# **HAHN QUALITY**

**Performance that builds trust.**

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