

## Content

### EI 30 Series

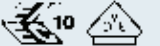



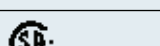


- Printed-Circuit-Board transformers frame size EI 30 (0.5 VA – 3.6 VA)
- Flat-type Printed-Circuit-Board transformers with small base areas



EI 30



	<b>DIN EN 61558-2-6</b>	<b>VDE</b>	115801/124257
	<b>DIN EN 60 335-1</b>	<b>VDE</b>	102961/84814
	<b>UL 5085-3</b>	<b>UL</b>	E177280
	<b>UL 5085-1</b>	<b>UL</b>	E98173
	<b>C22.2</b>	<b>CSA</b>	99204

- according to REACH regulation
- according to RoHs regulation

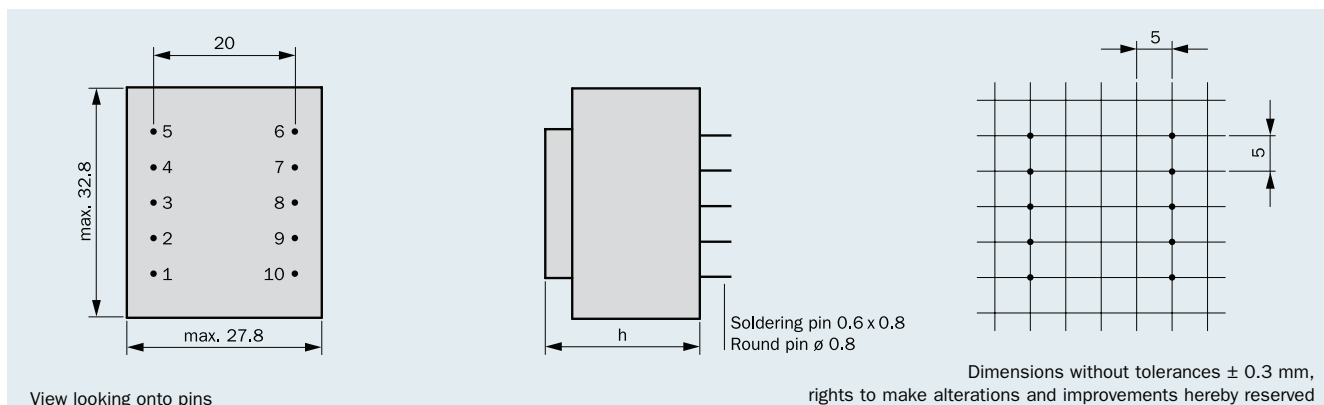
- Primary voltages from 12 V to 250 V or 2 x 12 V to 2 x 125 V
- Secondary voltages from 2 V to max. 38 V or 2 x 2 V to max. 2 x 19 V
- Output Power up to 3.6 VA
- Short-circuit-proof
- Vacuum-encapsulated, bobbin with dual chamber windings
- Temperature class ta 40°C/F and ta 70°C/F
- Per item tested quality with certificate
- Excellent temperature fluctuation resistance properties
- Self-extinguishing cast housing and sealing material
- Minimal size available



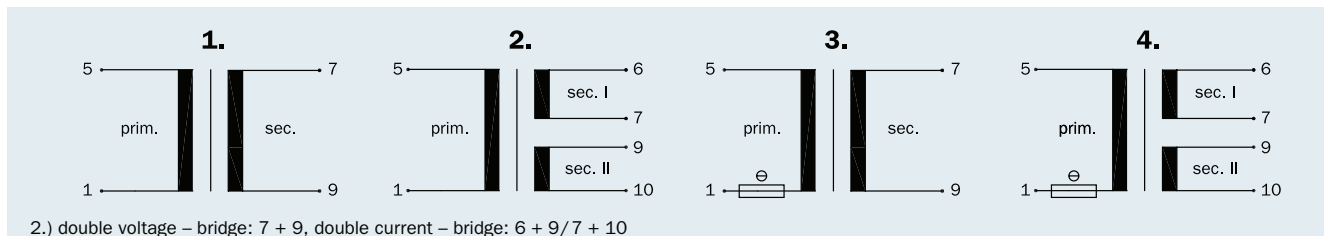
Several hundreds of types provide safety and long service-life for printed circuit boards, household appliances, leisure electronics, heating and control technology as well as in assembly techniques. Transformers for special requirements with lower open-circuit (no-load) loss capacity are also available in the range.

Enhanced customer benefit due to ongoing high quality standards throughout 40 years experience in transformer technology.

### Connecting pins



### Connection scheme (only connected pins are present)



Frame size/ Core height	Output Power ta 40 °C/F	Output Power ta 70 °C/F	Output Power ta 70 °C/F with thermo-fuse	Height (h)	Weight	Packaging unit
BV EI 301 .... / 5.5 mm	0.6 VA	0.5/0.7 VA	0.65 VA	15.2 mm	0.044 kg	50 pieces
BV EI 302 .... / 10.5 mm	1.8 VA	1.5 VA	1.8 VA	21.8 mm	0.070 kg	50 pieces
BV EI 307 .... / 11.5 mm	2.2 VA	1.8 VA	1.8 VA	22.1 mm	0.076 kg	50 pieces
BV EI 303 .... / 12.5 mm	2.3 VA	1.9 VA	2.3 VA	23.8 mm	0.081 kg	50 pieces
BV EI 304 .... / 15.5 mm	2.6 VA	2.1 VA	2.4 VA	26.8 mm	0.099 kg	50 pieces
BV EI 305 .... / 18.0 mm	3.0 VA	2.3 VA	2.7 VA	29.5 mm	0.111 kg	50 pieces
BV EI 306 .... / 23.0 mm	3.6 VA	3.0 VA	3.4 VA	34.0 mm	0.135 kg	50/40 pieces*

\* it depends on kind of packaging

## 0.5 VA ta 70°C/F

Frame size/Core height  
**BV EI 301.... /  
5.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 301 3005	230	1-5	1 x 6	83	7-9	1 x 10.2	1
BV EI 301 3538	230	1-5	2 x 6	41	6-7/9-10	2 x 10.1	2
BV EI 301 3017	230	1-5	1 x 7.5	67	7-9	1 x 12.2	1
BV EI 301 3970	230	1-5	2 x 7.5	33	6-7/9-10	2 x 11.7	2
BV EI 301 2911	230	1-5	1 x 9	56	7-9	1 x 14.7	1
BV EI 301 3172	230	1-5	2 x 9	28	6-7/9-10	2 x 13.3	2
BV EI 301 2824	230	1-5	1 x 12	42	7-9	1 x 18.0	1
BV EI 301 3971	230	1-5	2 x 12	21	6-7/9-10	2 x 18.7	2
BV EI 301 2845	230	1-5	1 x 15	33	7-9	1 x 22.8	1
BV EI 301 2741	230	1-5	2 x 15	17	6-7/9-10	2 x 23.3	2
BV EI 301 2967	230	1-5	1 x 18	28	7-9	1 x 26.0	1
BV EI 301 3020	230	1-5	1 x 21	24	7-9	1 x 30.6	1
BV EI 301 2807	230	1-5	1 x 24	21	7-9	1 x 35.5	1

## 0.7 VA ta 70°C/F

Frame size/Core height  
**BV EI 301.... /  
5.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 2.3 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 301 3582	230	1-5	1 x 6	117	7-9	1 x 10.3	1
BV EI 301 3583	230	1-5	2 x 6	58	6-7/9-10	2 x 10.5	2
BV EI 301 3584	230	1-5	1 x 7.5	94	7-9	1 x 12.7	1
BV EI 301 3585	230	1-5	2 x 7.5	47	6-7/9-10	2 x 12.7	2
BV EI 301 3586	230	1-5	1 x 9	78	7-9	1 x 14.6	1
BV EI 301 3587	230	1-5	2 x 9	39	6-7/9-10	2 x 14.6	2
BV EI 301 3588	230	1-5	1 x 12	58	7-9	1 x 19.5	1
BV EI 301 3589	230	1-5	2 x 12	29	6-7/9-10	2 x 19.5	2
BV EI 301 3590	230	1-5	1 x 15	47	7-9	1 x 24.5	1
BV EI 301 3591	230	1-5	2 x 15	23	6-7/9-10	2 x 24.5	2
BV EI 301 3592	230	1-5	1 x 18	39	7-9	1 x 28.3	1
BV EI 301 3593	230	1-5	1 x 21	33	7-9	1 x 32.9	1
BV EI 301 3594	230	1-5	1 x 24	29	7-9	1 x 37.8	1

## 0.65 VA ta 70°C/F

Frame size/Core height  
**BV EI 301.... /  
5.5 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 2.3 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 301 7002	230	1-5	1 x 6	108	7-9	1 x 10.5	3
BV EI 301 7003	230	1-5	2 x 6	54	6-7/9-10	2 x 10.5	4
BV EI 301 7004	230	1-5	1 x 7.5	87	7-9	1 x 13.0	3
BV EI 301 7005	230	1-5	2 x 7.5	43	6-7/9-10	2 x 13.0	4
BV EI 301 7006	230	1-5	1 x 9	72	7-9	1 x 15.4	3
BV EI 301 7007	230	1-5	2 x 9	36	6-7/9-10	2 x 15.4	4
BV EI 301 7008	230	1-5	1 x 12	54	7-9	1 x 20.4	3
BV EI 301 7009	230	1-5	2 x 12	27	6-7/9-10	2 x 20.4	4
BV EI 301 7010	230	1-5	1 x 15	43	7-9	1 x 24.9	3
BV EI 301 7011	230	1-5	2 x 15	21	6-7/9-10	2 x 24.9	4
BV EI 301 7012	230	1-5	1 x 18	36	7-9	1 x 30.1	3
BV EI 301 7013	230	1-5	1 x 21	31	7-9	1 x 35.1	3
BV EI 301 7014	230	1-5	1 x 24	27	7-9	1 x 40.0	3

### 1.8 VA ta 40 °C/F

Frame size/Core height  
**BV EI 302.... /  
10.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 2.2 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 302 2000	230	1-5	1 x 6	300	7-9	1 x 8.8	1
BV EI 302 2005	230	1-5	2 x 6	150	6-7/9-10	2 x 8.8	2
BV EI 302 3021	230	1-5	1 x 7.5	240	7-9	1 x 10.7	1
BV EI 302 3562	230	1-5	2 x 7.5	120	6-7/9-10	2 x 11.0	2
BV EI 302 2001	230	1-5	1 x 9	200	7-9	1 x 12.6	1
BV EI 302 2006	230	1-5	2 x 9	100	6-7/9-10	2 x 13.0	2
BV EI 302 2002	230	1-5	1 x 12	150	7-9	1 x 16.9	1
BV EI 302 2007	230	1-5	2 x 12	75	6-7/9-10	2 x 18.3	2
BV EI 302 2003	230	1-5	1 x 15	120	7-9	1 x 21.2	1
BV EI 302 2008	230	1-5	2 x 15	60	6-7/9-10	2 x 21.8	2
BV EI 302 2004	230	1-5	1 x 18	100	7-9	1 x 25.4	1
BV EI 302 3022	230	1-5	1 x 21	86	7-9	1 x 30.4	1
BV EI 302 2990	230	1-5	1 x 24	75	7-9	1 x 34.5	1

### 1.5 VA ta 70 °C/F

Frame size/Core height  
**BV EI 302.... /  
10.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.4 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 302 2020	230	1-5	1 x 6	250	7-9	1 x 8.2	1
BV EI 302 2025	230	1-5	2 x 6	125	6-7/9-10	2 x 8.4	2
BV EI 302 3058	230	1-5	1 x 7.5	200	7-9	1 x 10.5	1
BV EI 302 3561	230	1-5	2 x 7.5	100	6-7/9-10	2 x 10.5	2
BV EI 302 2021	230	1-5	1 x 9	166	7-9	1 x 12.1	1
BV EI 302 2026	230	1-5	2 x 9	83	6-7/9-10	2 x 12.4	2
BV EI 302 2022	230	1-5	1 x 12	125	7-9	1 x 16.6	1
BV EI 302 2027	230	1-5	2 x 12	62	6-7/9-10	2 x 16.6	2
BV EI 302 2023	230	1-5	1 x 15	100	7-9	1 x 20.7	1
BV EI 302 2028	230	1-5	2 x 15	50	6-7/9-10	2 x 20.7	2
BV EI 302 2024	230	1-5	1 x 18	83	7-9	1 x 24.5	1
BV EI 302 2029	230	1-5	2 x 18	41	6-7/9-10	2 x 24.8	2
BV EI 302 3059	230	1-5	1 x 21	71	7-9	1 x 28.6	1
BV EI 302 2989	230	1-5	1 x 24	62	7-9	1 x 33.5	1

### 1.8 VA ta 70 °C/F

Frame size/Core height  
**BV EI 302.... /  
10.5 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 2.1 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 302 7015	230	1-5	1 x 6	300	7-9	1 x 9.8	3
BV EI 302 7016	230	1-5	2 x 6	150	6-7/9-10	2 x 10.6	4
BV EI 302 7017	230	1-5	1 x 7.5	240	7-9	1 x 12.2	3
BV EI 302 7018	230	1-5	2 x 7.5	120	6-7/9-10	2 x 13.4	4
BV EI 302 7019	230	1-5	1 x 9	200	7-9	1 x 14.6	3
BV EI 302 7020	230	1-5	2 x 9	100	6-7/9-10	2 x 15.9	4
BV EI 302 7021	230	1-5	1 x 12	150	7-9	1 x 19.4	3
BV EI 302 7022	230	1-5	2 x 12	75	6-7/9-10	2 x 20.9	4
BV EI 302 7023	230	1-5	1 x 15	120	7-9	1 x 24.3	3
BV EI 302 7024	230	1-5	2 x 15	60	6-7/9-10	2 x 24.8	4
BV EI 302 7025	230	1-5	1 x 18	100	7-9	1 x 29.2	3
BV EI 302 7026	230	1-5	1 x 21	86	7-9	1 x 34.1	3
BV EI 302 7027	230	1-5	1 x 24	75	7-9	1 x 38.8	3

## 1.8 VA ta 70 °C/F

Frame size/Core height  
**BV EI 307 .... /  
11.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 307 3842	230	1-5	1 x 6	300	7-9	1 x 9.7	1
BV EI 307 3843	230	1-5	2 x 6	150	6-7/9-10	2 x 9.4	2
BV EI 307 3844	230	1-5	1 x 7.5	240	7-9	1 x 12.7	1
BV EI 307 3845	230	1-5	2 x 7.5	120	6-7/9-10	2 x 12.4	2
BV EI 307 3846	230	1-5	1 x 9	200	7-9	1 x 14.5	1
BV EI 307 3847	230	1-5	2 x 9	100	6-7/9-10	2 x 14.3	2
BV EI 307 3801	230	1-5	1 x 12	150	7-9	1 x 18.7	1
BV EI 307 3848	230	1-5	2 x 12	75	6-7/9-10	2 x 18.9	2
BV EI 307 3849	230	1-5	1 x 15	120	7-9	1 x 24.5	1
BV EI 307 3850	230	1-5	2 x 15	60	6-7/9-10	2 x 24.5	2
BV EI 307 3851	230	1-5	1 x 18	100	7-9	1 x 28.4	1
BV EI 307 3852	230	1-5	1 x 21	86	7-9	1 x 33.4	1
BV EI 307 3853	230	1-5	1 x 24	75	7-9	1 x 37.9	1

## 1.8 VA ta 70 °C/F

Frame size/Core height  
**BV EI 307 .... /  
11.5 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 1.1 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 307 7079	230	1-5	1 x 6	300	7-9	1 x 9.8	3
BV EI 307 7080	230	1-5	2 x 6	150	6-7/9-10	2 x 9.8	4
BV EI 307 7081	230	1-5	1 x 7.5	240	7-9	1 x 12.9	3
BV EI 307 7082	230	1-5	2 x 7.5	120	6-7/9-10	2 x 13.2	4
BV EI 307 7083	230	1-5	1 x 9	200	7-9	1 x 14.7	3
BV EI 307 7084	230	1-5	2 x 9	100	6-7/9-10	2 x 15.2	4
BV EI 307 7085	230	1-5	1 x 12	150	7-9	1 x 19.4	3
BV EI 307 7086	230	1-5	2 x 12	75	6-7/9-10	2 x 20.1	4
BV EI 307 7087	230	1-5	1 x 15	120	7-9	1 x 24.1	3
BV EI 307 7088	230	1-5	2 x 15	60	6-7/9-10	2 x 24.1	4
BV EI 307 7089	230	1-5	1 x 18	100	7-9	1 x 28.9	3
BV EI 307 7090	230	1-5	1 x 21	86	7-9	1 x 34.8	3
BV EI 307 7091	230	1-5	1 x 24	75	7-9	1 x 38.5	3

### 2.3 VA ta 40 °C/F

Frame size/Core height  
**BV EI 303.... /  
12.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 2.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 303 2010	230	1-5	1 x 6	383	7-9	1 x 8.5	1
BV EI 303 2015	230	1-5	2 x 6	191	6-7/9-10	2 x 9.4	2
BV EI 303 3611	230	1-5	1 x 7.5	307	7-9	1 x 11.4	1
BV EI 303 3612	230	1-5	2 x 7.5	153	6-7/9-10	2 x 12.4	2
BV EI 303 2011	230	1-5	1 x 9	255	7-9	1 x 12.9	1
BV EI 303 2016	230	1-5	2 x 9	127	6-7/9-10	2 x 14.6	2
BV EI 303 2012	230	1-5	1 x 12	191	7-9	1 x 17.4	1
BV EI 303 2017	230	1-5	2 x 12	95	6-7/9-10	2 x 18.7	2
BV EI 303 2013	230	1-5	1 x 15	153	7-9	1 x 21.6	1
BV EI 303 2018	230	1-5	2 x 15	76	6-7/9-10	2 x 23.5	2
BV EI 303 2014	230	1-5	1 x 18	127	7-9	1 x 25.8	1
BV EI 303 3563	230	1-5	1 x 21	110	7-9	1 x 30.2	1
BV EI 303 2991	230	1-5	1 x 24	96	7-9	1 x 34.3	1

### 1.9 VA ta 70 °C/F

Frame size/Core height  
**BV EI 303.... /  
12.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.2 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 303 2030	230	1-5	1 x 6	316	7-9	1 x 8.6	1
BV EI 303 2035	230	1-5	2 x 6	158	6-7/9-10	2 x 9.3	2
BV EI 303 3060	230	1-5	1 x 7.5	253	7-9	1 x 11.0	1
BV EI 303 2095	230	1-5	2 x 7.5	126	6-7/9-10	2 x 12.3	2
BV EI 303 2031	230	1-5	1 x 9	211	7-9	1 x 12.9	1
BV EI 303 2036	230	1-5	2 x 9	105	6-7/9-10	2 x 13.9	2
BV EI 303 2032	230	1-5	1 x 12	158	7-9	1 x 17.2	1
BV EI 303 2037	230	1-5	2 x 12	79	6-7/9-10	2 x 18.5	2
BV EI 303 2033	230	1-5	1 x 15	126	7-9	1 x 21.5	1
BV EI 303 2038	230	1-5	2 x 15	63	6-7/9-10	2 x 22.0	2
BV EI 303 2034	230	1-5	1 x 18	105	7-9	1 x 25.8	1
BV EI 303 3013	230	1-5	1 x 21	90	7-9	1 x 30.0	1
BV EI 303 2100	230	1-5	1 x 24	79	7-9	1 x 35.5	1

### 2.3 VA ta 70 °C/F

Frame size/Core height  
**BV EI 303.... /  
12.5 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 2.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 303 7028	230	1-5	1 x 6	383	7-9	1 x 9.4	3
BV EI 303 7029	230	1-5	2 x 6	191	6-7/9-10	2 x 9.7	4
BV EI 303 7030	230	1-5	1 x 7.5	306	7-9	1 x 11.3	3
BV EI 303 7031	230	1-5	2 x 7.5	153	6-7/9-10	2 x 12.2	4
BV EI 303 7032	230	1-5	1 x 9	256	7-9	1 x 13.8	3
BV EI 303 7033	230	1-5	2 x 9	128	6-7/9-10	2 x 14.3	4
BV EI 303 7034	230	1-5	1 x 12	191	7-9	1 x 17.4	3
BV EI 303 7035	230	1-5	2 x 12	96	6-7/9-10	2 x 19.1	4
BV EI 303 7036	230	1-5	1 x 15	153	7-9	1 x 22.3	3
BV EI 303 7037	230	1-5	2 x 15	76	6-7/9-10	2 x 23.7	4
BV EI 303 7038	230	1-5	1 x 18	128	7-9	1 x 26.4	3
BV EI 303 7039	230	1-5	1 x 21	110	7-9	1 x 30.5	3
BV EI 303 7040	230	1-5	1 x 24	96	7-9	1 x 34.0	3

### 2.6 VA ta 40 °C/F

Frame size/Core height  
**BV EI 304.... /  
15.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 304 2040	230	1-5	1 x 6	434	7-9	1 x 10.4	1
BV EI 304 2045	230	1-5	2 x 6	217	6-7/9-10	2 x 10.8	2
BV EI 304 3564	230	1-5	1 x 7.5	346	7-9	1 x 12.5	1
BV EI 304 2840	230	1-5	2 x 7.5	173	6-7/9-10	2 x 12.5	2
BV EI 304 2041	230	1-5	1 x 9	289	7-9	1 x 15.9	1
BV EI 304 2046	230	1-5	2 x 9	145	6-7/9-10	2 x 16.2	2
BV EI 304 2042	230	1-5	1 x 12	217	7-9	1 x 21.7	1
BV EI 304 2047	230	1-5	2 x 12	108	6-7/9-10	2 x 22.4	2
BV EI 304 2043	230	1-5	1 x 15	174	7-9	1 x 27.4	1
BV EI 304 2044	230	1-5	1 x 18	145	7-9	1 x 30.9	1
BV EI 304 2995	230	1-5	1 x 21	123	7-9	1 x 32.1	1
BV EI 304 2992	230	1-5	1 x 24	108	7-9	1 x 41.7	1

### 2.1 VA ta 70 °C/F

Frame size/Core height  
**BV EI 304.... /  
15.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 0.7 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 304 2080	230	1-5	1 x 6	350	7-9	1 x 10.5	1
BV EI 304 2085	230	1-5	2 x 6	175	6-7/9-10	2 x 11.2	2
BV EI 304 2889	230	1-5	1 x 7.5	280	7-9	1 x 13.7	1
BV EI 304 2773	230	1-5	2 x 7.5	140	6-7/9-10	2 x 14.2	2
BV EI 304 2081	230	1-5	1 x 9	234	7-9	1 x 16.0	1
BV EI 304 2086	230	1-5	2 x 9	117	6-7/9-10	2 x 16.2	2
BV EI 304 2082	230	1-5	1 x 12	175	7-9	1 x 21.5	1
BV EI 304 2087	230	1-5	2 x 12	88	6-7/9-10	2 x 22.0	2
BV EI 304 2083	230	1-5	1 x 15	140	7-9	1 x 26.5	1
BV EI 304 2084	230	1-5	1 x 18	117	7-9	1 x 30.0	1
BV EI 304 2843	230	1-5	1 x 21	100	7-9	1 x 33.4	1
BV EI 304 2868	230	1-5	1 x 24	88	7-9	1 x 37.3	1

### 2.4 VA ta 70 °C/F

Frame size/Core height  
**BV EI 304.... /  
15.5 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 304 7041	230	1-5	1 x 6	400	7-9	1 x 10.6	3
BV EI 304 7042	230	1-5	2 x 6	200	6-7/9-10	2 x 10.1	4
BV EI 304 7043	230	1-5	1 x 7.5	320	7-9	1 x 13.2	3
BV EI 304 7044	230	1-5	2 x 7.5	160	6-7/9-10	2 x 13.2	4
BV EI 304 7045	230	1-5	1 x 9	266	7-9	1 x 16.3	3
BV EI 304 7046	230	1-5	2 x 9	133	6-7/9-10	2 x 16.9	4
BV EI 304 7047	230	1-5	1 x 12	200	7-9	1 x 21.8	3
BV EI 304 7048	230	1-5	2 x 12	100	6-7/9-10	2 x 21.8	4
BV EI 304 7049	230	1-5	1 x 15	160	7-9	1 x 26.7	3
BV EI 304 7095	230	1-5	2 x 15	80	6-7/9-10	2 x 24.7	4
BV EI 304 7050	230	1-5	1 x 18	133	7-9	1 x 32.6	3
BV EI 304 7051	230	1-5	1 x 21	114	7-9	1 x 37.2	3
BV EI 304 7052	230	1-5	1 x 24	100	7-9	1 x 42.3	3



### 3.0 VA ta 40 °C/F

Frame size/Core height  
**BV EI 305.... /  
18.0 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 305 2050	230	1-5	1 x 6	500	7-9	1 x 10.7	1
BV EI 305 2055	230	1-5	2 x 6	250	6-7/9-10	2 x 10.7	2
BV EI 305 3565	230	1-5	1 x 7.5	400	7-9	1 x 13.7	1
BV EI 305 2922	230	1-5	2 x 7.5	200	6-7/9-10	2 x 13.7	2
BV EI 305 2051	230	1-5	1 x 9	334	7-9	1 x 17.3	1
BV EI 305 2056	230	1-5	2 x 9	167	6-7/9-10	2 x 15.7	2
BV EI 305 2052	230	1-5	1 x 12	250	7-9	1 x 20.3	1
BV EI 305 2057	230	1-5	2 x 12	125	6-7/9-10	2 x 20.3	2
BV EI 305 2053	230	1-5	1 x 15	200	7-9	1 x 26.7	1
BV EI 305 2054	230	1-5	1 x 18	167	7-9	1 x 32.5	1
BV EI 305 2188	230	1-5	1 x 21	143	7-9	1 x 35.7	1
BV EI 305 2993	230	1-5	1 x 24	125	7-9	1 x 42.0	1

### 2.3 VA ta 70 °C/F

Frame size/Core height  
**BV EI 305.... /  
18.0 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 0.8 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 305 2878	230	1-5	1 x 6	383	7-9	1 x 11.6	1
BV EI 305 2882	230	1-5	2 x 6	192	6-7/9-10	2 x 10.9	2
BV EI 305 2893	230	1-5	1 x 7.5	307	7-9	1 x 15.2	1
BV EI 305 2894	230	1-5	2 x 7.5	153	6-7/9-10	2 x 13.0	2
BV EI 305 2879	230	1-5	1 x 9	255	7-9	1 x 17.6	1
BV EI 305 2866	230	1-5	2 x 9	127	6-7/9-10	2 x 16.1	2
BV EI 305 2800	230	1-5	1 x 12	192	7-9	1 x 21.4	1
BV EI 305 2847	230	1-5	2 x 12	96	6-7/9-10	2 x 21.5	2
BV EI 305 2805	230	1-5	1 x 15	153	7-9	1 x 28.2	1
BV EI 305 2844	230	1-5	2 x 15	76	6-7/9-10	2 x 24.5	2
BV EI 305 2851	230	1-5	1 x 18	128	7-9	1 x 32.4	1
BV EI 305 2772	230	1-5	1 x 21	110	7-9	1 x 38.4	1
BV EI 305 2874	230	1-5	1 x 24	96	7-9	1 x 45.4	1

### 2.7 VA ta 70 °C/F

Frame size/Core height  
**BV EI 305.... /  
18.0 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 305 7053	230	1-5	1 x 6	450	7-9	1 x 10.9	3
BV EI 305 7054	230	1-5	2 x 6	225	6-7/9-10	2 x 10.3	4
BV EI 305 7055	230	1-5	1 x 7.5	360	7-9	1 x 13.7	3
BV EI 305 7056	230	1-5	2 x 7.5	180	6-7/9-10	2 x 13.4	4
BV EI 305 7057	230	1-5	1 x 9	300	7-9	1 x 16.2	3
BV EI 305 7058	230	1-5	2 x 9	150	6-7/9-10	2 x 16.8	4
BV EI 305 7059	230	1-5	1 x 12	225	7-9	1 x 20.7	3
BV EI 305 7060	230	1-5	2 x 12	112	6-7/9-10	2 x 22.1	4
BV EI 305 7061	230	1-5	1 x 15	180	7-9	1 x 26.6	3
BV EI 305 7062	230	1-5	2 x 15	90	6-7/9-10	2 x 24.6	4
BV EI 305 7063	230	1-5	1 x 18	150	7-9	1 x 33.0	3
BV EI 305 7064	230	1-5	1 x 21	128	7-9	1 x 37.6	3
BV EI 305 7065	230	1-5	1 x 24	112	7-9	1 x 42.9	3



### 3.6 VA ta 40°C/F

Frame size/Core height  
**BV EI 306.... /  
23.0 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.3 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 306 3595	230	1-5	1 x 6	600	7-9	1 x 10.8	1
BV EI 306 3596	230	1-5	2 x 6	300	6-7/9-10	2 x 10.8	2
BV EI 306 3597	230	1-5	1 x 7.5	480	7-9	1 x 13.3	1
BV EI 306 3598	230	1-5	2 x 7.5	240	6-7/9-10	2 x 13.3	2
BV EI 306 3599	230	1-5	1 x 9	400	7-9	1 x 15.7	1
BV EI 306 3600	230	1-5	2 x 9	200	6-7/9-10	2 x 15.7	2
BV EI 306 3601	230	1-5	1 x 12	300	7-9	1 x 21.0	1
BV EI 306 3602	230	1-5	2 x 12	150	6-7/9-10	2 x 21.0	2
BV EI 306 3603	230	1-5	1 x 15	240	7-9	1 x 24.5	1
BV EI 306 3604	230	1-5	2 x 15	120	6-7/9-10	2 x 24.5	2
BV EI 306 3605	230	1-5	1 x 18	200	7-9	1 x 31.4	1
BV EI 306 3606	230	1-5	1 x 21	171	7-9	1 x 35.5	1
BV EI 306 3607	230	1-5	1 x 24	150	7-9	1 x 42.0	1

### 3.0 VA ta 70°C/F

Frame size/Core height  
**BV EI 306.... /  
23.0 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 0.8 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 306 3359	230	1-5	1 x 6	500	7-9	1 x 10.5	1
BV EI 306 3360	230	1-5	2 x 6	250	6-7/9-10	2 x 10.5	2
BV EI 306 3361	230	1-5	1 x 7.5	400	7-9	1 x 12.7	1
BV EI 306 3362	230	1-5	2 x 7.5	200	6-7/9-10	2 x 12.7	2
BV EI 306 3363	230	1-5	1 x 9	333	7-9	1 x 15.9	1
BV EI 306 3364	230	1-5	2 x 9	167	6-7/9-10	2 x 15.9	2
BV EI 306 3365	230	1-5	1 x 12	250	7-9	1 x 20.3	1
BV EI 306 3366	230	1-5	2 x 12	125	6-7/9-10	2 x 20.3	2
BV EI 306 3367	230	1-5	1 x 15	200	7-9	1 x 23.8	1
BV EI 306 3368	230	1-5	2 x 15	100	6-7/9-10	2 x 24.0	2
BV EI 306 3369	230	1-5	1 x 18	167	7-9	1 x 29.2	1
BV EI 306 3371	230	1-5	1 x 21	143	7-9	1 x 34.3	1
BV EI 306 3372	230	1-5	1 x 24	125	7-9	1 x 38.4	1

### 3.4 VA ta 70°C/F

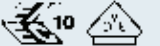




Frame size/Core height  
**BV EI 306.... /  
23.0 mm**

non inherently  
short-circuit-  
proof  
with thermo-fuse



no load power loss  
**type. 1.3 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 306 7066	230	1-5	1 x 6	566	7-9	1 x 11.0	3
BV EI 306 7067	230	1-5	2 x 6	283	6-7/9-10	2 x 10.7	4
BV EI 306 7068	230	1-5	1 x 7.5	453	7-9	1 x 13.6	3
BV EI 306 7069	230	1-5	2 x 7.5	226	6-7/9-10	2 x 12.4	4
BV EI 306 7070	230	1-5	1 x 9	378	7-9	1 x 16.0	3
BV EI 306 7071	230	1-5	2 x 9	189	6-7/9-10	2 x 16.8	4
BV EI 306 7072	230	1-5	1 x 12	283	7-9	1 x 21.0	3
BV EI 306 7073	230	1-5	2 x 12	141	6-7/9-10	2 x 22.1	4
BV EI 306 7074	230	1-5	1 x 15	226	7-9	1 x 26.0	3
BV EI 306 7075	230	1-5	2 x 15	113	6-7/9-10	2 x 24.6	4
BV EI 306 7076	230	1-5	1 x 18	189	7-9	1 x 32.2	3
BV EI 306 7077	230	1-5	1 x 21	162	7-9	1 x 37.5	3
BV EI 306 7078	230	1-5	1 x 24	141	7-9	1 x 43.1	3

	<b>DIN EN 61558</b>	<b>VDE</b>	on request
	<b>DIN EN 60 335-1</b>	<b>VDE</b>	102961/84814
	<b>UL 5085-3</b>	<b>UL</b>	on request
	<b>UL 5085-1</b>	<b>UL</b>	on request
	<b>C22.2</b>	<b>CSA</b>	on request

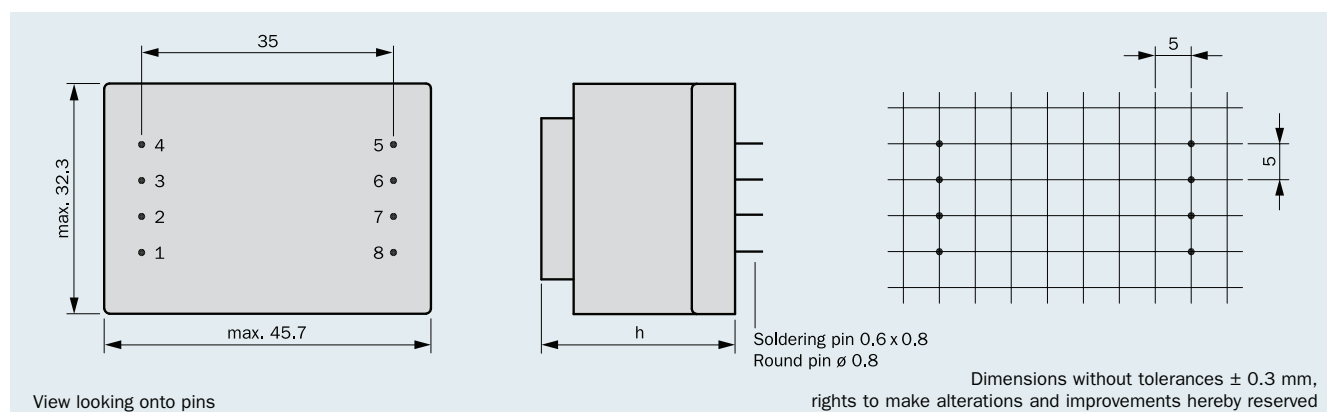
- according to REACH regulation  
- according to RoHS regulation

- Primary voltages up to 230 V
- Secondary voltages from 2 V to max. 38 V
- Output Power up to 8.0 VA
- Temperature class ta 70 °C
- Short-circuit-proof
- Vacuum-encapsulated, bobbin with dual chamber windings
- Per item tested quality with certificate
- Excellent temperature fluctuation resistance properties
- Self-extinguishing cast housing and sealing material
- Minimal size available

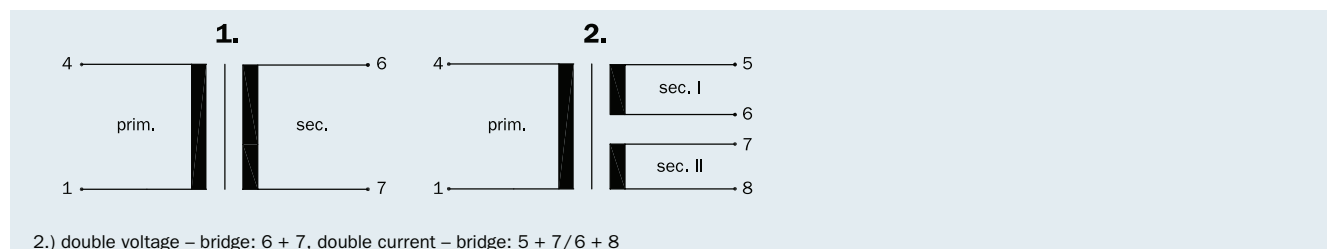
The EI 34 Series provides solutions for applications requiring low heights and a small base areas. HAHN offers rapid and economic problem solutions for customer applications especially developed by our experienced R&D development engineers. The EI 34 Transformers meet the stringent requirements of the DIN EN 61558 and DIN VDE 0570 standards. Short-circuit-proof and non short-circuit-proof transformers are available in five different stacking heights. Outputs from 1.6 VA to 8.0 VA, at an ambient temperature of 70 °C, are supplyable to meet customer requirements in encapsulated versions.

HAHN has established itself on the market as a reliable and innovative supplier with its application-oriented solutions.

### Connecting pins



### Connection scheme (only connected pins are present)



Frame size/Core height	Output Power ta 70 °C/B inherently short-circuit-proof	Output Power ta 70 °C/B non short-circuit-proof	Height (h)	Weight
BV EI 341 .... / 5.5 mm	1.6 VA	–	16.2 mm	75 g
BV EI 342 .... / 7.5 mm	2.0 VA	–	18.1 mm	90 g
BV EI 343 .... / 10.5 mm	2.4 VA	3.0 VA	21.0 mm	120 g
BV EI 344 .... / 16.5 mm	–	5.0 VA	26.9 mm	165 g
BV EI 345 .... / 26.0 mm	–	8.0 VA	36.7 mm	245 g

### 1.6 VA ta 70°C/B

Frame size/Core height  
**BV EI 341.... /  
5.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.7 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 341 0001	230	1-4	1 x 6	266	6-7	1 x 10.0	1
BV EI 341 0002	230	1-4	2 x 6	133	5-6/7-8	2 x 9.7	2
BV EI 341 0003	230	1-4	1 x 7.5	213	6-7	1 x 12.8	1
BV EI 341 0004	230	1-4	2 x 7.5	107	5-6/7-8	2 x 13.5	2
BV EI 341 0005	230	1-4	1 x 9	178	6-7	1 x 15.1	1
BV EI 341 0006	230	1-4	2 x 9	89	5-6/7-8	2 x 15.1	2
BV EI 341 0007	230	1-4	1 x 12	133	6-7	1 x 19.6	1
BV EI 341 0008	230	1-4	2 x 12	67	5-6/7-8	2 x 20.3	2
BV EI 341 0009	230	1-4	1 x 15	107	6-7	1 x 25.5	1
BV EI 341 0010	230	1-4	2 x 15	53	5-6/7-8	2 x 24.7	2
BV EI 341 0011	230	1-4	1 x 18	89	6-7	1 x 30.1	1
BV EI 341 0012	230	1-4	1 x 21	76	6-7	1 x 35.6	1
BV EI 341 0013	230	1-4	1 x 24	67	6-7	1 x 39.6	1

### 2.0 VA ta 70°C/B

Frame size/Core height  
**BV EI 342.... /  
7.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 1.0 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 342 0014	230	1-4	1 x 6	333	6-7	1 x 10.7	1
BV EI 342 0015	230	1-4	2 x 6	167	5-6/7-8	2 x 10.7	2
BV EI 342 0016	230	1-4	1 x 7.5	266	6-7	1 x 13.5	1
BV EI 342 0017	230	1-4	2 x 7.5	133	5-6/7-8	2 x 13.5	2
BV EI 342 0018	230	1-4	1 x 9	222	6-7	1 x 15.6	1
BV EI 342 0019	230	1-4	2 x 9	111	5-6/7-8	2 x 16.1	2
BV EI 342 0020	230	1-4	1 x 12	167	6-7	1 x 21.4	1
BV EI 342 0021	230	1-4	2 x 12	83	5-6/7-8	2 x 21.4	2
BV EI 342 0022	230	1-4	1 x 15	133	6-7	1 x 27.0	1
BV EI 342 0024	230	1-4	1 x 18	111	6-7	1 x 31.4	1
BV EI 342 0025	230	1-4	1 x 21	95	6-7	1 x 37.6	1
BV EI 342 0026	230	1-4	1 x 24	84	6-7	1 x 43.2	1

### 2.4 VA ta 70°C/B

Frame size/Core height  
**BV EI 343.... /  
10.5 mm**

inherently  
short-circuit-  
proof



no load power loss  
**type. 0.7 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 343 0027	230	1-4	1 x 6	400	6-7	1 x 10.4	1
BV EI 343 0028	230	1-4	2 x 6	200	5-6/7-8	2 x 10.4	2
BV EI 343 0029	230	1-4	1 x 7.5	320	6-7	1 x 13.3	1
BV EI 343 0030	230	1-4	2 x 7.5	160	5-6/7-8	2 x 13.3	2
BV EI 343 0031	230	1-4	1 x 9	267	6-7	1 x 16.1	1
BV EI 343 0032	230	1-4	2 x 9	134	5-6/7-8	2 x 15.4	2
BV EI 343 0033	230	1-4	1 x 12	200	6-7	1 x 20.8	1
BV EI 343 0034	230	1-4	2 x 12	100	5-6/7-8	2 x 20.2	2
BV EI 343 0035	230	1-4	1 x 15	160	6-7	1 x 26.8	1
BV EI 343 0037	230	1-4	1 x 18	134	6-7	1 x 31.2	1
BV EI 343 0038	230	1-4	1 x 21	114	6-7	1 x 35.9	1
BV EI 343 0039	230	1-4	1 x 24	100	6-7	1 x 41.2	1

### 3.0 VA ta 70°C/B

Frame size/Core height  
**BV EI 343.... /  
10.5 mm**

non short-  
circuit-proof



no load power loss  
**type. 1.2 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 343 0040	230	1-4	1 x 6	500	6-7	1 x 10.1	1
BV EI 343 0041	230	1-4	2 x 6	250	5-6/7-8	2 x 10.1	2
BV EI 343 0042	230	1-4	1 x 7.5	400	6-7	1 x 12.3	1
BV EI 343 0043	230	1-4	2 x 7.5	200	5-6/7-8	2 x 12.8	2
BV EI 343 0044	230	1-4	1 x 9	333	6-7	1 x 14.6	1
BV EI 343 0045	230	1-4	2 x 9	167	5-6/7-8	2 x 14.6	2
BV EI 343 0046	230	1-4	1 x 12	250	6-7	1 x 19.1	1
BV EI 343 0047	230	1-4	2 x 12	125	5-6/7-8	2 x 19.1	2
BV EI 343 0048	230	1-4	1 x 15	200	6-7	1 x 23.5	1
BV EI 343 0049	230	1-4	2 x 15	100	5-6/7-8	2 x 24.5	2
BV EI 343 0050	230	1-4	1 x 18	167	6-7	1 x 27.7	1
BV EI 343 0051	230	1-4	1 x 21	143	6-7	1 x 31.9	1
BV EI 343 0052	230	1-4	1 x 24	125	6-7	1 x 36.5	1

### 5.0 VA ta 70°C/B

Frame size/Core height  
**BV EI 344.... /  
16.5 mm**

non short-  
circuit-proof



no load power loss  
**type. 1.3 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 344 0053	230	1-4	1 x 6	834	6-7	1 x 8.7	1
BV EI 344 0054	230	1-4	2 x 6	417	5-6/7-8	2 x 8.7	2
BV EI 344 0055	230	1-4	1 x 7.5	667	6-7	1 x 11.0	1
BV EI 344 0056	230	1-4	2 x 7.5	334	5-6/7-8	2 x 11.0	2
BV EI 344 0057	230	1-4	1 x 9	555	6-7	1 x 12.6	1
BV EI 344 0058	230	1-4	2 x 9	278	5-6/7-8	2 x 12.6	2
BV EI 344 0059	230	1-4	1 x 12	417	6-7	1 x 17.3	1
BV EI 344 0060	230	1-4	2 x 12	208	5-6/7-8	2 x 16.5	2
BV EI 344 0061	230	1-4	1 x 15	334	6-7	1 x 21.6	1
BV EI 344 0062	230	1-4	2 x 15	167	5-6/7-8	2 x 21.6	2
BV EI 344 0063	230	1-4	1 x 18	278	6-7	1 x 25.4	1
BV EI 344 0064	230	1-4	1 x 21	238	6-7	1 x 29.6	1
BV EI 344 0065	230	1-4	1 x 24	208	6-7	1 x 31.8	1

### 8.0 VA ta 70°C/B

Frame size/Core height  
**BV EI 345.... /  
26.0 mm**

non short-  
circuit-proof



no load power loss  
**type. 1.7 W**

Order No.	Primary voltage V	Connecting pins prim.	Secondary voltage V	Current sec. mA	Connecting pins sec.	No-load voltage V	Connection scheme
BV EI 345 0066	230	1-4	1 x 6	1332	6-7	1 x 8.2	1
BV EI 345 0067	230	1-4	2 x 6	667	5-6/7-8	2 x 8.2	2
BV EI 345 0068	230	1-4	1 x 7.5	1067	6-7	1 x 10.3	1
BV EI 345 0069	230	1-4	2 x 7.5	533	5-6/7-8	2 x 10.3	2
BV EI 345 0070	230	1-4	1 x 9	888	6-7	1 x 11.6	1
BV EI 345 0071	230	1-4	2 x 9	444	5-6/7-8	2 x 11.6	2
BV EI 345 0072	230	1-4	1 x 12	667	6-7	1 x 15.7	1
BV EI 345 0073	230	1-4	2 x 12	333	5-6/7-8	2 x 15.7	2
BV EI 345 0074	230	1-4	1 x 15	533	6-7	1 x 20.6	1
BV EI 345 0075	230	1-4	2 x 15	267	5-6/7-8	2 x 20.6	2
BV EI 345 0076	230	1-4	1 x 18	444	6-7	1 x 23.1	1
BV EI 345 0077	230	1-4	1 x 21	380	6-7	1 x 26.8	1
BV EI 345 0078	230	1-4	1 x 24	334	6-7	1 x 30.4	1