

Standard Ballasts for HS and HI Lamps 35 to 70 W

Shape: 53 x 66 mm

For high pressure sodium lamps (HS),
metal halide lamps (HI) and
ceramic discharge lamps (C-HI)

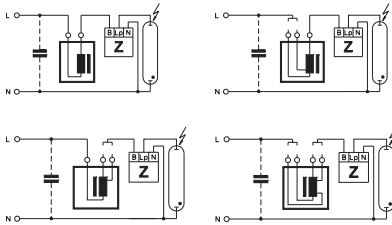
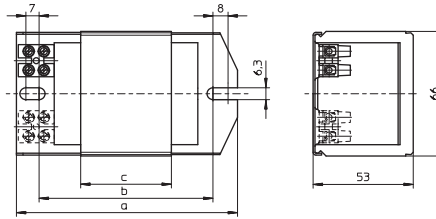
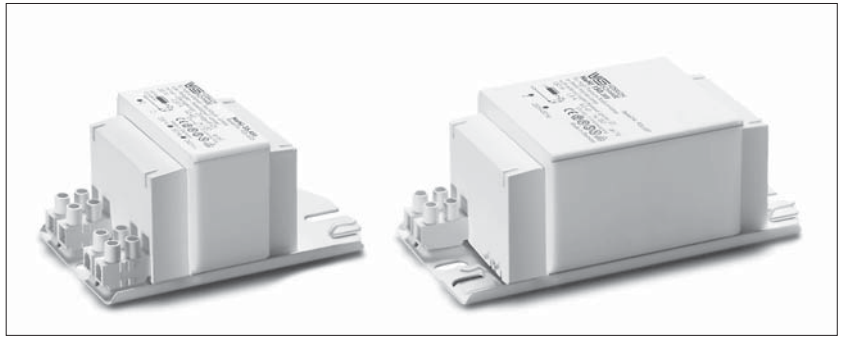
Vacuum-impregnated with polyester resin

Screw terminals: 0.5-2.5 mm²

Protection class I

tw 130

Ballasts for pulse ignition system on request



Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
35	HS, HI	0.53	NaHJ 35.485	526517	220/230, 50	108	86	36	1.07	60	0.40	EEl=A3	6	0.22/0.21
35	HS, HI	0.53	NaHJ 35.485	161367	230/240, 50	108	86	36	1.07	60	0.40	EEl=A3	6	0.22/0.21
35	HS, HI	0.53	NaHJ 35.638	161371	220, 60	108	86	36	1.07	50	0.41	EEl=A3	5	0.23
50	HS	0.76	NaH 50.486	161379	230/240, 50	108	86	36	1.07	65	0.37	EEl=A3	8	0.30/0.29
50	HS	0.76	NaH 50.654	161399	220, 60	108	86	36	1.07	60	0.36	EEl=A3	8	0.31
50	HS	0.76	NaHJ 70/50.157	160613	230, 50	108	86	42	1.23	55	0.37	EEl=A3	8	0.30
70	HS, HI	0.98			230, 50	108	86	36	1.07	70	0.37	EEl=A3	12	0.38
70	HS, HI	0.98	NaHJ 70.300	174961	220, 50	108	86	36	1.07	75	0.40	EEl=A3	12	0.40
70	HS, HI	0.98	NaHJ 70.128	533568	230, 50	108	86	36	1.07	70	0.36	EEl=A3	12	0.38
70	HS, HI	0.98	NaHJ 70.128	539434	230/240, 50	108	86	36	1.07	70/75	0.36	EEl=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.158	161662	240, 50	108	86	42	1.23	70	0.36	EEl=A3	12	0.37
70	HS, HI	0.98	NaHJ 70.128	538407	240, 50	108	86	36	1.07	75	0.37	EEl=A3	12	0.37
70	HS, HI	0.98	NaHJ 70.653	161392	220, 60	108	86	36	1.07	60	0.42	EEl=A3	10	0.40

* Step 2: EEl = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Standard Ballasts for HS and HI Lamps 70 to 250 W

Shape: 53 x 66 mm

Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
70	HS, HI	0.98	NaHJ 100/70.703	161469	230, 50	145	120	55	1.55	60	0.37	EEl=A3	12	0.38
100	HS, HI	1.20								70	0.43	EEl=A3	12	0.55
70	HS, HI	0.98	NaHJ 100/70.519	161158	230/240, 50	145	120	75	2.03	50	0.36	A2	12	0.38/0.37
100	HS, HI	1.20								60	0.42	EEl=A3	12	0.55/0.53
70	HS, HI	0.98	NaHJ 100/70.709	161471	220, 60	145	120	55	1.55	50	0.39	EEl=A3	10	0.40
100	HS, HI	1.20								60	0.44	EEl=A3	10	0.57
100	HS, HI	1.20	NaHJ 100.126	507671	220, 50	108	86	42	1.24	75	0.44	EEl=A3	12	0.55
100	HS, HI	1.20	NaHJ 100.941	161707	230/240, 50	108	86	42	1.24	75/80	0.42	EEl=A3	12	0.55/0.53
100	HS, HI	1.20	NaHJ 100.271	530195	220, 60	108	86	42	1.24	75	0.45	EEl=A3	10	0.57
150	HS, HI	1.80	NaHJ 150.159	533602	220, 50	145	120	64	1.80	75	0.41	EEl=A3	20	0.80
150	HS, HI	1.80	NaHJ 150.620	533565	230, 50	145	120	64	1.80	70	0.40	EEl=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.620	534540	240, 50	145	120	64	1.80	75	0.40	EEl=A3	20	0.74
150	HS, HI	1.80	NaHJ 150.679	526196	220, 60	145	120	55	1.55	75	0.44	EEl=A3	16	0.80
150	HS, HI	1.80	NaHJ 150.679	537793	220, 60	117	92	55	1.55	75	0.44	EEl=A3	16	0.80
250	HS, HI	3.00	NaHJ 250.204	529087	220, 50	160	135	95	2.50	80	0.42	EEl=A3	32	1.32
250	HS, HI	3.00	NaHJ 250.160	160597	220, 50	180	155	110	2.84	75	0.41	EEl=A3	32	1.32
250	HS, HI	3.00	NaHJ 250.915	161686	230, 50	180	155	110	2.84	80	0.40	EEl=A3	32	1.26
250	HS, HI	3.00	NaHJ 250.340	504109	230/240, 50	180	155	110	2.84	80	0.39	EEl=A3	32	1.26/1.21
250	HS, HI	3.00	NaHJ 250.340	178177	240, 50	180	155	110	2.84	80	0.39	EEl=A3	32	1.21
250	HS, HI	3.00	NaHJ 250.163	529072	220, 60	160	135	95	2.50	70	0.42	A2	25	1.35
250	HS, HI	3.00	NaHJ 250.163	160604	220, 60	180	155	95	2.50	70	0.42	A2	25	1.35

* Step 2: EEl = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

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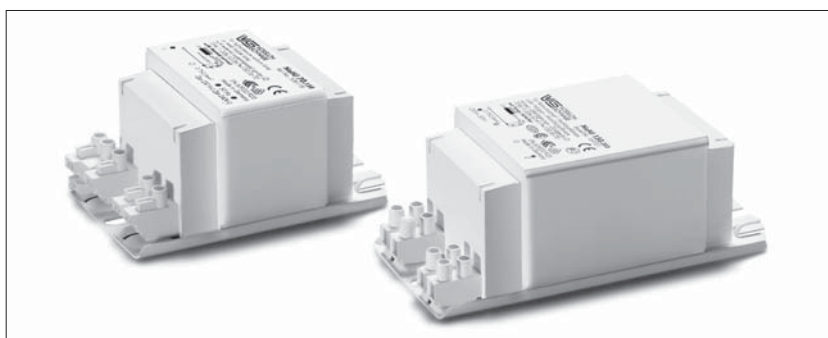
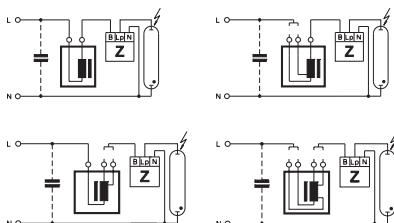
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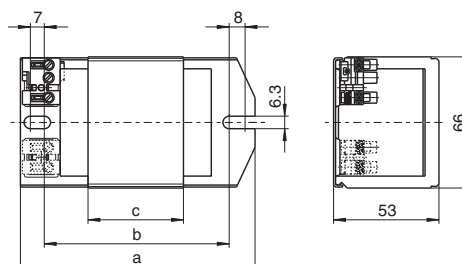
Ballasts with Thermal Cut-out for HS and HI Lamps 35 to 150 W

Shape: 53 x 66 mm

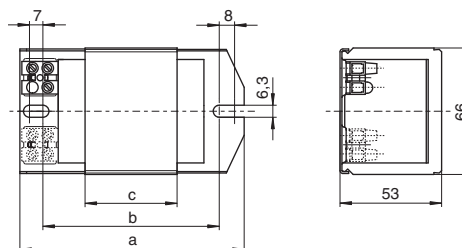
For high pressure sodium lamps (HS), metal halide lamps (HI) and ceramic discharge lamps (C-HI)
 Vacuum-impregnated with polyester resin
 With VS-patented, intelligent temperature switch with automatic reset (evaluates the temperature and current of the ballast)
 Protection class I
 Iw 130
 Ballasts for pulse ignition system on request



A Push-in terminals: 0.5-1.5 mm²



B Screw terminals: 0.5-2.5 mm²



Lamp			Ballast										Capacitor		
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	Drawing	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _P μF	I _N A
Push-in terminals: 0.5-1.5 mm²															
35	HS, HI	0.53	NaHJ 35.209	543737	230/240, 50	A	108	86	36	1.07	35	0.36	A2	6	0.22
35	HS, HI	0.53	NaHJ 35.485	506122	230/240, 50	A	108	86	36	1.07	60	0.40	EEI=A3	6	0.22/0.21
35	HS, HI	0.53	NaHJ 35.638	509170	220, 60	A	108	86	36	1.07	50	0.41	EEI=A3	5	0.23
50	HS	0.76	NaHJ 50.206	543738	230, 50	A	108	86	48	1.39	45	0.35	A2	8	0.30
50	HS	0.76	NaHJ 70/50.157	507341	230, 50	A	108	86	42	1.23	55	0.37	EEI=A3	8	0.30
70	HS, HI	0.98			70						70	0.37	EEI=A3	12	0.38
50	HS	0.76	NaHJ 70/50.520	538361	230, 50	A	117	92	55	1.55	45	0.36	EEI=A3	8	0.30
70	HS, HI	0.98			70						55	0.36	EEI=A3	12	0.38
70	HS, HI	0.98	NaHJ 70.128	535191	230, 50	A	108	86	36	1.07	70	0.36	EEI=A3	12	0.38
70	HS, HI	0.98	NaHJ 70.226	543741	230, 50	A	108	86	48	1.39	50	0.37	A2	12	0.38
70	HS, HI	0.98	NaHJ 70.128	533572	230/240, 50	A	108	86	36	1.07	70/75	0.36	EEI=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.653	509169	220, 60	A	108	86	36	1.07	60	0.42	EEI=A3	10	0.40
70	HS, HI	0.98	NaHJ 100/70.703	507342	230, 50	A	145	120	55	1.55	60	0.37	EEI=A3	12	0.38
100	HS, HI	1.20			70						70	0.43	EEI=A3	12	0.55
100	HS, HI	1.20	NaHJ 100.213	543739	230, 50	A	117	92	55	1.55	55	0.41	A2	12	0.55
100	HS, HI	1.20	NaHJ 100.670	506120	230/240, 50	A	117	92	55	1.55	70	0.42	EEI=A3	12	0.55/0.53
100	HS, HI	1.20	NaHJ 100.941	539492	230/240, 50	A	108	86	42	1.23	75/80	0.42	EEI=A3	12	0.55/0.53
100	HS, HI	1.20	NaHJ 150/100.973	507343	230, 50	A	145	120	75	2.02	55	0.41	A2	12	0.55
150	HS, HI	1.80			75						75	0.41	EEI=A3	20	0.57
150	HS, HI	1.80	NaHJ 150.620	535216	230, 50	A	145	120	64	1.80	70	0.40	EEI=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.620	538543	230/240, 50	A	145	120	64	1.80	70/75	0.40	EEI=A3	20	0.77/0.74
150	HS, HI	1.80	NaHJ 150.355	509100	230/240, 50	A	145	120	75	2.02	65	0.39	EEI=A3	20	0.77/0.74
150	HS, HI	1.80	NaHJ 150.679	509171	220, 60	A	145	120	75	2.02	65	0.42	EEI=A3	16	0.80

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Ballasts with Thermal Cut-out for HS and HI Lamps 35 to 250 W

Shape: 53 x 66 mm

Lamp			Ballast											Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	Drawing	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
Screw terminals: 0.5–2.5 mm²															
35	HS, HI	0.53	NaHJ 35.485	503010	230/240, 50	B	108	86	36	1.07	60	0.40	EEI=A3	6	0.22/0.21
35	HS	0.53	NaH 50/35.797	539515	230, 50	B	108	86	36	1.07	45	0.40	EEI=A3	6	0.22
50	HS	0.76									70	0.37	EEI=A3	8	0.30
50	HS	0.76	NaH 50.486	507498	230/240, 50	B	108	86	36	1.07	65	0.37	EEI=A3	8	0.30
50	HS	0.76	NaHJ 70/50.695	507697	230/240, 50	B	108	86	48	1.39	50	0.37	EEI=A3	8	0.30/0.29
70	HS, HI	0.98									70	0.37	EEI=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.128	536582	230, 50	B	108	86	36	1.07	70	0.36	EEI=A3	12	0.38
70	HS, HI	0.98	NaHJ 70.158	169722	230/240, 50	B	108	86	42	1.23	70	0.36	EEI=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.128	538830	230/240, 50	B	108	86	36	1.07	70/75	0.36	EEI=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.158	546817	240, 50	B	108	86	42	1.23	70	0.36	EEI=A3	12	0.37
70	HS, HI	0.98	NaHJ 100/70.703	504131	230, 50	B	117	92	55	1.55	60	0.37	EEI=A3	12	0.38
100	HS, HI	1.20									70	0.43	EEI=A3	12	0.55
100	HS, HI	1.20	NaHJ 100.941	543349	230, 50	B	108	86	42	1.23	75	0.42	EEI=A3	12	0.55
100	HS, HI	1.20	NaHJ 100.941	502799	230/240, 50	B	108	86	42	1.23	75/80	0.42	EEI=A3	12	0.55/0.53
100	HS, HI	1.20	NaHJ 150/100.973	504135	230, 50	B	145	120	75	2.02	55	0.41	A2	12	0.55
150	HS, HI	1.80									75	0.41	EEI=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.355	539270	220, 50	B	145	120	75	2.02	65	0.39	EEI=A3	20	0.80
150	HS, HI	1.80	NaHJ 150.620	536593	230, 50	B	145	120	64	1.80	70	0.40	EEI=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.995	169721	230/240, 50	B	145	120	75	2.02	70	0.40	EEI=A3	20	0.77/0.74
150	HS, HI	1.80	NaHJ 150.620	538831	230/240, 50	B	145	120	64	1.80	70/75	0.40	EEI=A3	20	0.77/0.74
150	HS, HI	1.80	NaHJ 150.620	537763	240, 50	B	130	105	64	1.80	75	0.40	EEI=A3	20	0.74
150	HS, HI	1.80	NaHJ 150.679	526616	220, 60	B	145	120	75	2.02	65	0.42	EEI=A3	16	0.80
250	HS, HI	3.00	NaHJ 250.915	505054	230, 50	B	180	155	110	2.84	80	0.40	EEI=A3	32	1.26
250	HS, HI	3.00	NaHJ 250.340	542349	230/240, 50	B	180	155	110	2.84	80	0.39	EEI=A3	32	1.26
250	HS, HI	3.00	NaHJ 250.340	508723	240, 50	B	180	155	110	2.84	80	0.39	EEI=A3	32	1.26

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

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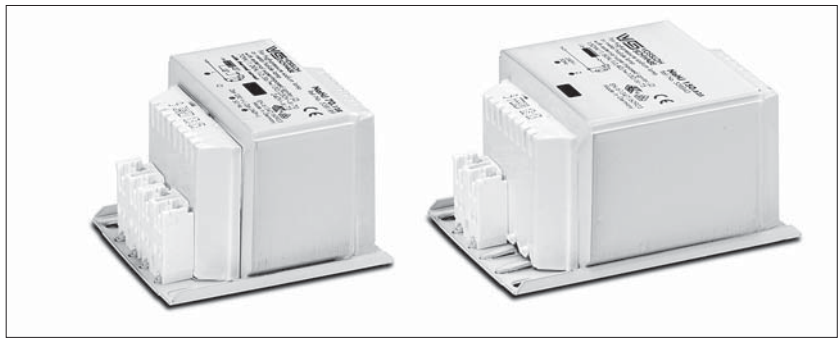
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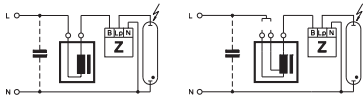
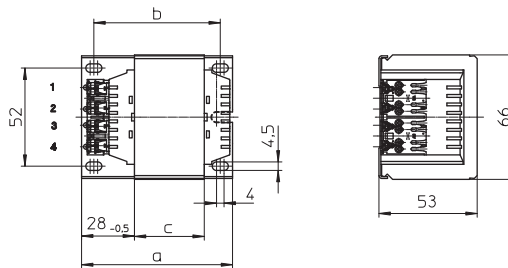
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Compact Ballasts for HS and HI Lamps 35 to 150 W

Shape: 53 x 66 mm



For high pressure sodium lamps (HS),
metal halide lamps (HI) and
ceramic discharge lamps (C-HI)
Vacuum-impregnated with polyester resin
Push-in terminals: 0.5-1 mm²
IDC terminals for leads H05V-U 0.5
Protection class I
Ballasts with screw terminals on request



Lamp			Ballast											Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	t _w °C	Power factor λ	Energy efficiency*	C _p μF	I _N A
35	HS, HI	0.53	NaHJ 35.485	538807	230/240, 50	80	67	36	1.07	60	130	0.40	EEl=A3	6	0.22/0.21
70	HS, HI	0.98	NaHJ 70.128	538810	230, 50	80	67	36	1.07	70	130	0.36	EEl=A3	12	0.38
70	HS, HI	0.98	NaHJ 70.128	538823	230/240, 50	80	67	36	1.07	70/75	130	0.36	EEl=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.653	538828	220, 60	80	67	36	1.07	60	130	0.42	EEl=A3	10	0.40
150	HS, HI	1.80	NaHJ 150.620	538834	230, 50	107	94	64	1.80	70	130	0.40	EEl=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.625	538843	240, 50	107	94	64	1.80	75	130	0.40	EEl=A3	20	0.74
150	HS, HI	1.80	NaHJ 150.679	542557	220, 60	107	94	64	1.80	75	130	0.44	EEl=A3	16	0.80

* Step 2: EEl = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

With Thermal Cut-out

Thermal cut-out with automatic reset

Lamp			Ballast											Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	t _w °C	Power factor λ	Energy efficiency*	C _p μF	I _N A
35	HS, HI	0.53	NaHJ 35.485	538258	230/240, 50	80	67	36	1.07	60	130	0.40	EEl=A3	6	0.22/0.21
70	HS, HI	0.98	NaHJ 70.128	538189	230/240, 50	80	67	36	1.07	70/75	130	0.36	EEl=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.128	539223	230/240, 50	80	67	36	1.07	70/75	140	0.36	EEl=A3	12	0.38/0.37
70	HS, HI	0.98	NaHJ 70.653	538537	220, 60	80	67	36	1.07	60	130	0.42	EEl=A3	10	0.40
100	HS, HI	1.20	NaHJ 100.581	539081	230/240, 50	107	94	64	1.80	60	130	0.42	EEl=A3	12	0.55/0.53
150	HS, HI	1.80	NaHJ 150.159	548260	220, 50	107	94	64	1.80	75	130	0.41	EEl=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.620	538262	230, 50	107	94	64	1.80	70	130	0.40	EEl=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.620	539306	230, 50	107	94	64	1.80	70	140	0.40	EEl=A3	20	0.77
150	HS, HI	1.80	NaHJ 150.620	538264	240, 50	107	94	64	1.80	75	130	0.40	EEl=A3	20	0.74
150	HS, HI	1.80	NaHJ 150.620	539286	240, 50	107	94	64	1.80	75	140	0.40	EEl=A3	20	0.74
150	HS, HI	1.80	NaHJ 150.679	539311	220, 60	107	94	64	1.80	75	130	0.44	EEl=A3	16	0.80

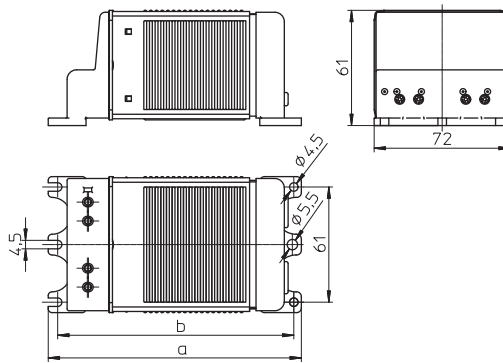
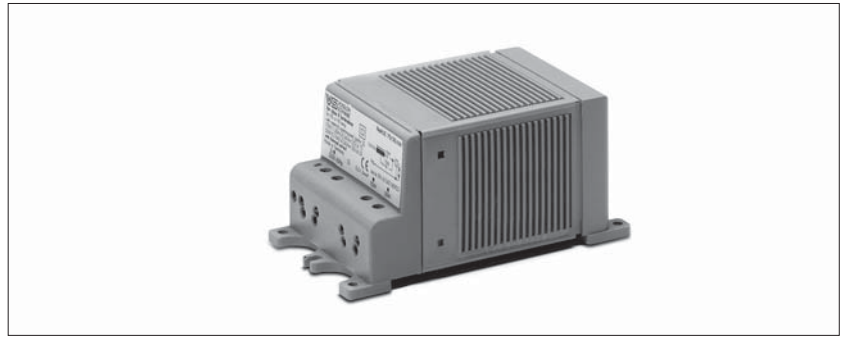
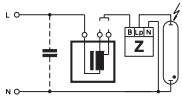
* Step 2: EEl = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Ballasts with Thermal Cut-out for HS and HI Lamps 35 to 150 W, Protection Class II

Encapsulated ballast in compact plastic casing
Shape: 61 x 72 mm

For high pressure sodium lamps (HS), metal halide lamps (HI) and ceramic discharge lamps (C-HI)
With cable holder
Thermal cut-out with automatic reset
Screw terminals: 0,5-2,5 mm²

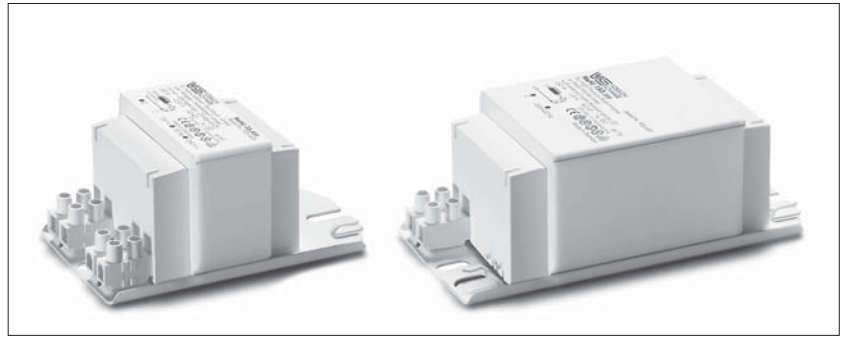
Protection class II
tw 130



Lamp			Ballast									Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μ F	I _N A
35	HS	0.53	NaHZ 50/35.797	539609	230, 50	134	125	1.60	45	0.40	EEl=A3	6	0.22
50	HS	0.76							70	0.37	EEl=A3	8	0.30
50	HS	0.76	NaHJZ 70/50.520	533395	230, 50	134	125	1.60	45	0.36	EEl=A3	8	0.30
70	HS, HI	0.98							65	0.36	EEl=A3	12	0.38
70	HS, HI	0.98	NaHJZ 100/70.519	533396	230, 50	161	152	2.10	45	0.36	EEl=A3	12	0.38
100	HS, HI	1.20							60	0.42	EEl=A3	12	0.55
100	HS, HI	1.20	NaHJZ 150/100.466	533398	230, 50	161	152	2.30	45	0.41	A2	12	0.85
150	HS, HI	1.80							70	0.39	EEl=A3	20	0.77

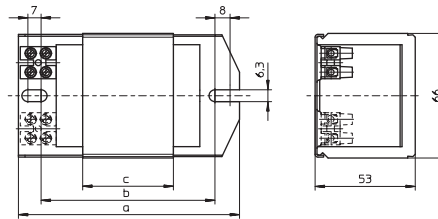
* Step 2: EEl = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Ballasts with Thermal Cut-out and Thermal Fuse for HS and HI Lamps 35 to 150 W, Protection Class II



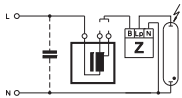
With double insulation
Shape: 53 x 66 mm

For high pressure sodium lamps (HS), metal halide lamps (HI) and ceramic discharge lamps (C-HI)
Thermal cut-out with automatic reset
Screw terminals: 0,5-2,5 mm²



Protection class II

tw 130



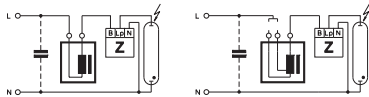
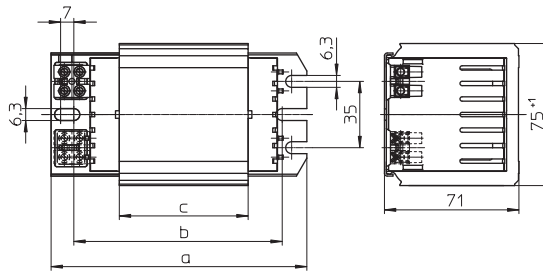
	Lamp			Ballast									Capacitor		
	Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
new	35	HS, HI	0.53	NaHZ 50/35.797	553806	230, 50	108	92	36	1.07	45	0.40	EEI=A3	6	0.22
	50	HS	0.76								70	0.37	EEI=A3	8	0.30
new	50	HS	0.76	NaHJZ 70/50.785	509490	230, 50	108	92	42	1.24	50	0.35	A2	8	0.30
	70	HS, HI	0.98								70	0.38	A2	12	0.38
new	70	HS, HI	0.98	NaHJZ 100/70.786	509491	230, 50	145	120	69	1.83	55	0.38	EEI=A3	12	0.38
	100	HS, HI	1.20								65	0.41	EEI=A3	12	0.55
new	100	HS, HI	1.20	NaHJZ 150/100.787	509492	230, 50	145	120	69	1.83	50	0.39	EEI=A3	12	0.85
	150	HS, HI	1.80								75	0.41	EEI=A3	20	0.77

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Ballasts for HS and HI Lamps 150 to 400 W

Shape: 71x75 mm

For high pressure sodium lamps (HS), metal halide lamps (HI) and ceramic discharge lamps (C-HI)
 Vacuum-impregnated with polyester resin
 Screw terminals: 0.75-2.5 mm²
 Protection class I
 tw 130
 Ballasts for pulse ignition system on request



Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
250	HS, HI	3.00	NaHJ 250.741	536147	220, 50	135	115	68	2.85	70	0.42	A2	32	1.35
250	HS, HI	3.00	NaHJ 250.741	536148	230, 50	135	115	68	2.85	75	0.40	A2	32	1.30
250	HS, HI	3.00	NaHJ 250.741	536149	240, 50	135	115	68	2.85	75	0.39	A2	32	1.25
250	HS, HI	3.00	NaHJ 250.742	536150	220, 60	135	115	68	2.85	70	0.42	A2	25	1.40
400	HS, HI	4.45	NaHJ 400.743	536142	220, 50	165	145	103	4.1	70	0.45	A2	45	2.10
400	HS, HI	4.45	NaHJ 400.743	535142	230, 50	165	145	103	4.1	75	0.44	A2	45	2.00
400	HS, HI	4.45	NaHJ 400.743	536143	240, 50	165	145	103	4.1	75	0.40	A2	45	1.85
400	HS, HI	4.45	NaHJ 400.744	536144	220, 60	165	145	103	4.1	70	0.44	A2	40	2.05

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

With Thermal Cut-out

Thermal cut-out with automatic reset

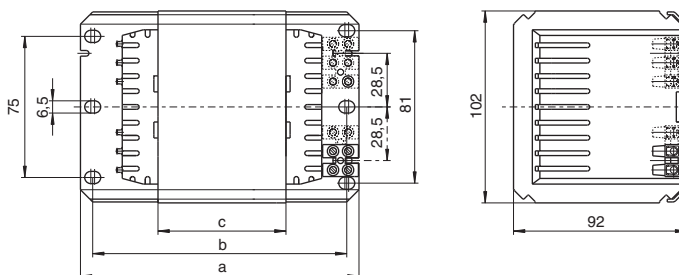
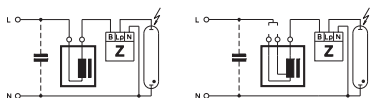
Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
150	HS, HI	1.80	NaHJ 150.216	543740	230, 50	135	115	68	2.85	45	0.40	A2	20	0.77
250	HS, HI	3.00	NaHJ 250.741	539274	220, 50	135	115	68	2.85	70	0.42	A2	32	1.35
250	HS, HI	3.00	NaHJ 250.741	544210	230, 50	135	115	68	2.85	65	0.40	A2	32	1.30
250	HS, HI	3.00	NaHJ 250.741	536151	230, 50	135	115	68	2.85	75	0.40	A2	32	1.30
250	HS, HI	3.00	NaHJ 250.741	537726	230/240, 50	135	115	68	2.85	75	0.40	A2	32	1.30/1.25
250	HS, HI	3.00	NaHJ 250.741	536152	240, 50	135	115	68	2.85	75	0.39	A2	32	1.25
400	HS, HI	4.45	NaHJ 400.743	548259	220, 50	165	145	103	4.1	70	0.44	A2	45	2.10
400	HS, HI	4.45	NaHJ 400.743	536145	230, 50	165	145	103	4.1	75	0.44	A2	45	2.00
400	HS, HI	4.45	NaHJ 400.743	538204	230, 50	165	145	103	4.1	65	0.41	A2	45	2.00
400	HS, HI	4.45	NaHJ 400.743	539209	230/240, 50	165	145	103	4.1	75	0.41	A2	45	2.00/1.85
400	HS, HI	4.45	NaHJ 400.743	543986	240, 50	165	145	103	4.1	70	0.40	A2	45	1.85
400	HS, HI	4.45	NaHJ 400.743	536146	240, 50	165	145	103	4.1	75	0.40	A2	45	1.85
400	HS, HI	4.45	NaHJ 400.744	538620	220, 60	165	145	103	4.1	70	0.44	A2	40	2.05

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Ballasts for HS and HI Lamps 250 to 600 W

Shape: 92 x 102 mm

For high pressure sodium lamps (HS), metal halide lamps (HI) and ceramic discharge lamps (C-HI)
 Vacuum-impregnated with polyester resin
 Screw terminals: 0.75-2.5 mm²
 Protection class I
 tw 130
 Ballasts for pulse ignition system on request



Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
250	HS, HI	3.00	NaHJ 250.003	179743	220, 50	133	120	44	3.53	70	0.41	EEI=A3	32	1.32
250	HS, HI	3.00	NaHJ 250.727	178771	230, 50	133	120	44	3.53	70	0.39	EEI=A3	32	1.26
250	HS, HI	3.00	NaHJ 250.727	500976	240, 50	133	120	44	3.53	70	0.39	EEI=A3	32	1.21
250	HS, HI	3.00	NaHJ 250.011	500401	220, 60	133	120	44	3.53	65	0.43	A2	25	1.35
400	HS, HI	4.45	NaHJ 400.006	179740	220, 50	148	135	68	5.20	70	0.44	A2	45	2.00
400	HS, HI	4.45	NaHJ 400.006	178790	230, 50	148	135	68	5.20	70	0.44	A2	45	1.95
400	HS, HI	4.45	NaHJ 400.737	500402	240, 50	148	135	68	5.20	75	0.43	A2	45	1.90
400	HS, HI	4.45	NaHJ 400.012	500403	220, 60	148	135	68	5.20	70	0.44	A2	40	2.00
400	HI	3.50	J 400.027	505782	230/240, 50	148	135	68	5.20	60	0.45	A2	35	1.64/1.59
600	HS	6.20	NaH 600.010	179742	220, 50	173	160	96	6.80	70	0.44	A2	65	2.90
600	HS	6.20	NaH 600.005	533484	230/240, 50	173	160	96	6.80	70	0.44	A2	65	2.90/2.85
600	HS	6.20	NaH 600.140	529560	220, 60	173	160	96	6.80	65	0.46	A2	55	3.00

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

With Thermal Cut-out

Thermal cut-out with automatic reset

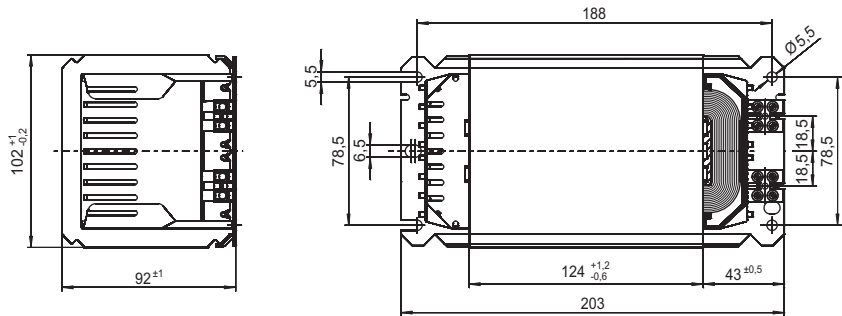
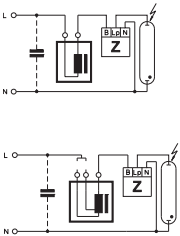
Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
250	HS, HI	3.00	NaHJ 250.727	500969	230/240, 50	133	120	44	3.53	70	0.39	EEI=A3	32	1.26/1.21
250	HS, HI	3.00	NaHJ 250.011	508744	220, 60	133	120	44	3.46	65	0.43	A2	25	1.35
400	HS, HI	4.45	NaHJ 400.737	179424	230/240, 50	148	135	68	5.20	70/75	0.43	A2	45	1.95/1.90
400	HI	3.50	J 400.027	509613	230/240, 50	148	135	68	5.20	60	0.45	A2	35	1.64/1.59
400	HS, HI	4.45	NaHJ 400.012	508741	220, 60	148	135	68	5.20	70	0.44	A2	40	2.00
600	HS	6.20	NaH 600.005	179454	230/240, 50	173	160	96	6.80	70	0.44	A2	65	2.90/2.85

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017

Ballasts for HS and HI Lamps 1000 W

Shape: 92 x 102 mm

For high pressure sodium lamps (HS) and metal halide lamps (HI)
 Vacuum-impregnated with polyester resin
 Screw terminals: 0.75-2.5 mm²
 Protection class I
 tw 130
 Ballasts for pulse ignition system on request



Lamp			Ballast										Capacitor	
Output W	Type	Current A	Type	Ref. No.	Voltage AC V, Hz	a mm	b mm	c mm	Weight kg	Δt K	Power factor λ	Energy efficiency*	C _p μF	I _N A
1000	HS	10.30	NaHJ 1000.089	534487	220, 50	203	188	124	8.90	80	0.47	A2	100	5.1
	HI	9.50											85	5.0
1000	HS	10.30	NaHJ 1000.089	539212	220/230, 50	203	188	124	8.90	80	0.45	A2	100	5.1
	HI	9.50											85	5.0
1000	HS	10.30	NaHJ 1000.089	528548	230, 50	203	188	124	8.90	80	0.45	A2	100	5.1
	HI	9.50											85	5.0
1000	HS	10.30	NaHJ 1000.089	544787	230/240, 50	203	188	124	8.90	85	0.45	A2	100	5.1
	HI	9.50											85	5.0
1000	HS	10.30	NaHJ 1000.089	536140	240, 50	203	188	124	8.90	85	0.42	A2	100	4.8
	HI	9.50											85	4.9
1000	HS	10.30	NaHJ 1000.089	528536	220, 60	203	188	124	8.90	75	0.46	A2	100	5.1
	HI	9.50											85	5.0

* Step 2: EEI = A3, minimum EU energy efficiency requirements as of 2012 | Step 3: A2, minimum EU energy efficiency requirements as of 2017