Catalogue

2018

Distribuited by:
AMLUX s.r.l.
46042 Castel Goffredo (MN)
info@amlux.it - www.amlux.it

Magnetic Systems Technology Sp. z o.o. Sp. k. (appearing under the MST brand) operates in the electronics industry and produces components for the lighting industry.

Magnetic Systems Technology arose from the management buyout of Philips Lighting electromagnetic ballasts factory in Kętrzyn. In April 2011 Management Team purchased the factory and the MST brand from Philips. Company became an exclusive supplier for Philips of electromagnetic ballasts for HID lamps with Philips brand in Europe, Middle East and Africa.

MST also produce it's own branded products: LED modules, LED drivers, electromagnetic ballasts for HID and fluorescent lamps, integrated HID systems, ignitors for HID lamps, filters and compensation coils.

In the end of 2013 company invested in equipment for production electronics and at the beginning of 2014 MST started own production of ignitors and LED boards.

In 2018, MST plans to start production of LED drivers and driver for high power LED lamps. At the beginning of this year MST became a member of the Zhaga lighting consortium.

The company enables clients to develop their business by providing competitive products, services and comprehensive solutions.

The company has a laboratory accredited by DEKRA in accordance with the norm 17025, enabling testing and certification of products with the ENEC.

Possesses quality certificates: ISO 9001, 14001, 18001. The implemented VDA and ISO procedures as well as trained staff guarantee a high level of service provided. MST offers complete services related to the design and contract of the assembly of electronic components on printed circuit boards.

Information necessary for the preparation of the design and contract assembly offer available at:
http://www.mstechnology.pl/pl/emsodm

Main markets of Magnetic Systems Technology are Europe, Middle East and Africa.

MISSION

We enable our customers to develop their business by providing competitive products, services and comprehensive solutions.

VISION

To maintain a profitable business in a competitive environment, we want to shape Magnetic Systems Technology as a highly competent, cost-effective organization. Our strategic ambition is to exceed the market requirements by anticipating the changes in the business environment and management of business risk with the use of alternative scenarios.

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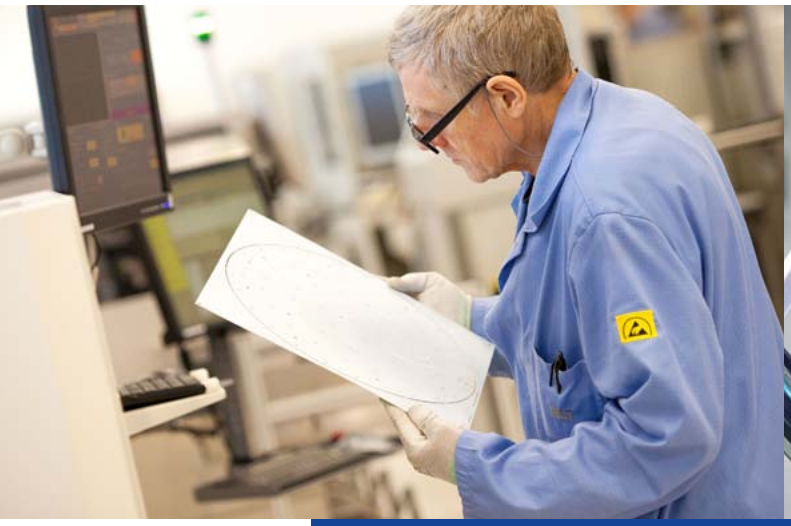

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LED modules- Definitions

If – forward current, which flows across the LED module, so that the LED will receive sufficient energy to emit light. In MST module marked value of If should be divided by the amount of strings in a specific product to have a value of single LED current.

Uf – forward voltage, which must be applied across the LED module, in order to turn the LED on. In MST module marked value of Uf should be divided by the amount of diodes connected in series in a specific product to have a value of single LED voltage.

I_{max} – highest permissible current flowing through the LED module. Operating the LED beyond the listed maximum ratings may affect module reliability and cause permanent damage.

Tp – temperature at the Tp-point is maximum operated temperature to which the rated performance characteristics are declared by the manufacturer. Temperature at Tp is relevant to the light output and life time of a LED module. For the MST LED module product's Tp point is placed at the same point as Tc.

Tc – highest permissible temperature which may occur on the outer surface (at the indicated place) under normal operating conditions. Tc is measured at thermally stable condition.

CRI – Colour Rendering Index is a quantitative measure of the ability of a light source to reproduce the colours of illuminated objects accurately when compared to a reference light source.

CCT – Correlated Colour Temperature of a light source is the temperature of an ideal black-body radiator that radiates light of comparable hue to that of the light source. Colour temperature gives a numerical estimate of what reference light source best approximates particular artificial light .

SDCM – Standard Deviation of Colour Matching – has the same meaning as a "MacAdam" ellipse and refer to the size of an ellipse around the black body locus. Staying within this ellipse results in a consistency of light which ensures that no colour difference is perceivable between one LED line and another with the naked eye in most applications.

Zhaga – global consortium of the light industry. Its overall aim is to develop interface specifications that allow LED light sources from different suppliers to be used interchangeably, without changing the luminaire design. Zhaga standard specific cover physical dimensions as well as photometric, electrical and thermal parameters of LED light engines.

Linear LED modules

Product description

- Long life-time: >50.000 hours
- High colour rendering: CRI > 80
- Color consistency of 3 SDCM
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE, ENEC
- Mechanical design according to Zhaga
- Color temperature: 3000K = warm white; 4000K = neutral white
- Case temperature Tc = 85°C
- Tolerance range for optical and electrical data ±10%
- Max. torque for fixing: 0,5Nm

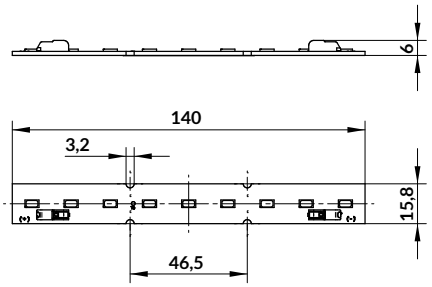
Typical values @ If nom, Tp = 65°C
(Tp: temperature measured at Tc point)

LinLED 140x16 mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
LinLED 140x16mm 350lm 830 Optimum	1010 117 10046	3000	80	3	250	65	358	169	2.1	8.5	600
LinLED 140x16mm 350lm 840 Optimum	1010 117 10146	4000	80	3	250	65	369	174	2.1	8.5	600
LinLED 140x16mm 700lm 830 18V Optimum	1010 117 12646	3000	80	3	250	65	643	147	4.4	17.4	400
LinLED 140x16mm 700lm 840 18V Optimum	1010 117 12746	4000	80	3	250	65	670	153	4.4	17.4	400

LinLED 140x16mm
Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>72.000	>72.000	>72.000	72.000	41.000	36.000
	65°C	>72.000	>72.000	70.000	61.000	36.000	32.000
	75°C	>72.000	69.000	60.000	53.000	31.000	28.000
300 mA	55°C	>72.000	>72.000	>72.000	67.000	38.000	34.000
	65°C	>72.000	>72.000	65.000	57.000	33.000	30.000
	75°C	>72.000	65.000	56.000	49.000	29.000	26.000
350 mA	55°C	>72.000	>72.000	68.000	60.000	35.000	31.000
	65°C	>72.000	70.000	58.000	51.000	30.000	27.000
	75°C	>72.000	60.000	51.000	44.000	27.000	24.000
600 mA	55°C	>72.000	67.000	53.000	47.000	28.000	25.000
	65°C	70.000	57.000	46.000	40.000	24.000	22.000
	75°C	60.000	49.000	39.000	34.000	21.000	19.000

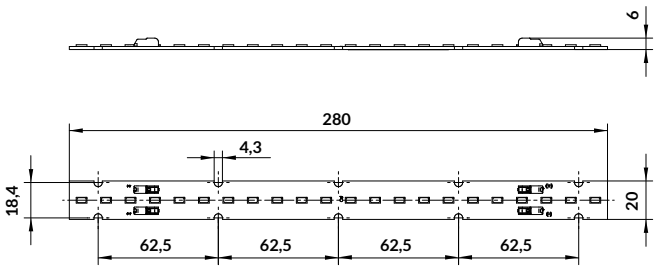


LinLED 280x20mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
LinLED 280x20mm 700lm 830 Optimum	1010 117 10846	3000	80	3	250	65	661	149	4.4	17.7	400
LinLED 280x20mm 700lm 840 Optimum	1010 117 10946	4000	80	3	250	65	681	154	4.4	17.7	400
LinLED 280x20mm 1300lm 830 Optimum	1010 117 10246	3000	80	3	250	65	1211	149	8.1	32.5	400
LinLED 280x20mm 1300lm 840 Optimum	1010 117 10346	4000	80	3	250	65	1249	154	8.1	32.5	400

LinLED 280x20mm
Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>72.000	>72.000	68.000	60.000	35.000	31.000
	65°C	>72.000	70.000	58.000	51.000	30.000	27.000
	75°C	>72.000	60.000	51.000	44.000	27.000	24.000
300 mA	55°C	>72.000	>72.000	63.000	55.000	33.000	29.000
	65°C	>72.000	65.000	54.000	47.000	29.000	25.000
	75°C	70.000	56.000	46.000	41.000	25.000	22.000
350 mA	55°C	>72.000	71.000	58.000	50.000	30.000	27.000
	65°C	>72.000	61.000	49.000	43.000	26.000	23.000
	75°C	65.000	53.000	43.000	37.000	23.000	20.000
400 mA	55°C	>72.000	67.000	53.000	47.000	28.000	25.000
	65°C	70.000	57.000	46.000	40.000	24.000	21.000
	75°C	60.000	49.000	39.000	34.000	21.000	19.000



Linear LED modules

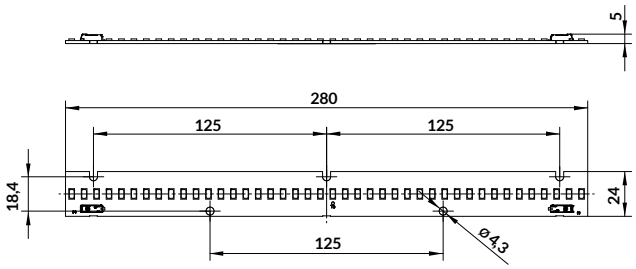
LinLED 280x24mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
LinLED 280x24mm 2300lm 830 39V Optimum	1010 117 14946	3000	80	3	350	65	2232	165	13.5	38.6	500
LinLED 280x24mm 2300lm 840 39V Optimum	1010 117 15046	4000	80	3	350	65	2299	170	13.5	38.6	500

LinLED 280x24mm

Lifetime simulation based on LM80 LED data (10.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
350 mA	55°C	>60.000	>60.000	>60.000	49.000	36.000	27.000
	65°C	>60.000	>60.000	>60.000	45.000	33.000	23.000
	75°C	>60.000	>60.000	>60.000	41.000	30.000	22.000
500 mA	55°C	>60.000	59.000	56.000	39.000	29.000	21.000
	65°C	>60.000	54.000	51.000	35.000	27.000	19.000
	75°C	>60.000	50.000	47.000	33.000	25.000	17.000



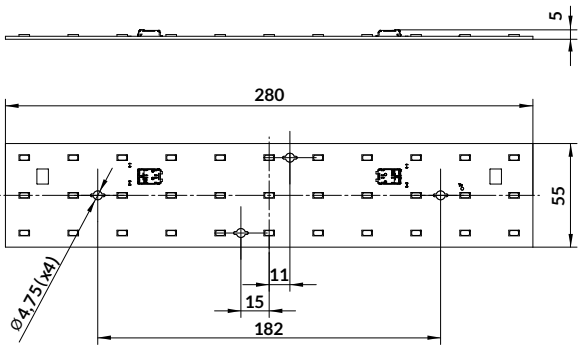
LinLED 280x55mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
LinLED 280x55mm 1100lm 830 33V Optimum	1010 117 20046	3000	80	3	195	45	1068	177	6	31	450
LinLED 280x55mm 1100lm 840 33V Optimum	1010 117 20146	4000	80	3	195	45	1116	184	6	31	450

LinLED 280x55mm

Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
195 mA	55°C	>72.000	>72.000	>72.000	>72.000	44.000	37.000
	65°C	>72.000	>72.000	>72.000	>72.000	42.000	35.000
	75°C	>72.000	>72.000	>72.000	60.000	35.000	28.000
450 mA	55°C	>72.000	>72.000	>72.000	>72.000	42.000	35.000
	65°C	>72.000	>72.000	>72.000	>72.000	40.000	33.000
	75°C	>72.000	>72.000	>72.000	54.000	33.000	26.000



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Linear LED modules

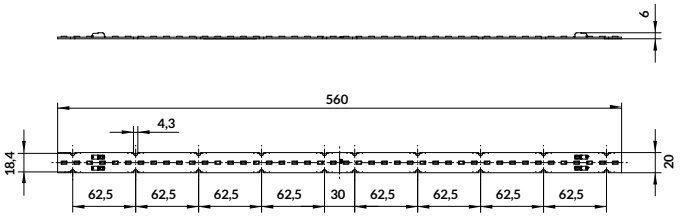
LinLED 560x20mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
LinLED 560x20mm 1300lm 830 Optimum	1010 117 10446	3000	80	3	250	65	1211	149	8,1	32.5	400
LinLED 560x20mm 1300lm 840 Optimum	1010 117 10546	4000	80	3	250	65	1249	154	8,1	32.5	400
LinLED 560x20mm 2600lm 830 Optimum	1010 117 11146	3000	80	3	250	65	2423	149	16.2	64.9	400
LinLED 560x20mm 2600lm 840 Optimum	1010 117 11046	4000	80	3	250	65	2498	154	16.2	64.9	400
LinLED 560x20mm 2600lm 830 33V Optimum	1010 117 12046	3000	80	3	500	65	2423	149	16.2	32.5	800
LinLED 560x20mm 2600lm 840 33V Optimum	1010 117 12146	4000	80	3	500	65	2498	154	16.2	32.5	800

LinLED 560x20mm

Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>72.000	>72.000	68.000	60.000	35.000	31.000
	65°C	>72.000	70.000	58.000	51.000	30.000	27.000
	75°C	>72.000	60.000	51.000	44.000	27.000	24.000
300 mA	55°C	>72.000	>72.000	63.000	55.000	33.000	29.000
	65°C	>72.000	65.000	54.000	47.000	29.000	25.000
	75°C	70.000	56.000	46.000	41.000	25.000	22.000
350 mA	55°C	>72.000	71.000	58.000	50.000	30.000	27.000
	65°C	>72.000	61.000	49.000	43.000	26.000	23.000
	75°C	65.000	53.000	43.000	37.000	23.000	20.000
400 mA	55°C	>72.000	67.000	53.000	47.000	28.000	25.000
	65°C	70.000	57.000	46.000	40.000	24.000	22.000
	75°C	60.000	49.000	39.000	34.000	21.000	19.000



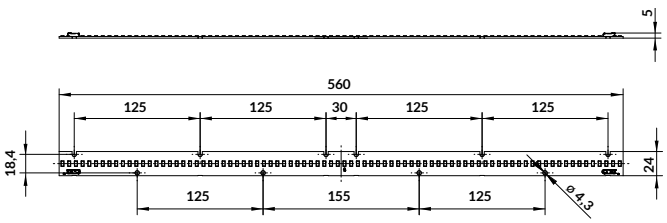
LinLED 560x24mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
LinLED 560x24mm 4600lm 830 78V Optimum	1010 117 15146	3000	80	3	350	65	4465	165	27	77.1	500
LinLED 560x24mm 4600lm 840 78V Optimum	1010 117 15246	4000	80	3	350	65	4598	170	27	77.1	500
LinLED 560x24mm 4600lm 830 39V Optimum	1010 117 15346	3000	80	3	700	65	4465	165	27	38.6	1000
LinLED 560x24mm 4600lm 840 39V Optimum	1010 117 15446	4000	80	3	700	65	4598	170	27	38.6	1000

LinLED 560x24mm

Lifetime simulation based on LM80 LED data (10.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
350 mA	55°C	>60.000	>60.000	>60.000	49.000	36.000	27.000
	65°C	>60.000	>60.000	>60.000	45.000	33.000	23.000
	75°C	>60.000	>60.000	>60.000	41.000	30.000	22.000
260 mA	55°C	>60.000	59.000	56.000	39.000	29.000	21.000
	65°C	>60.000	54.000	51.000	35.000	27.000	17.000
	75°C	60.000	50.000	47.000	33.000	25.000	17.000



Rectangular LED modules

Product description

- Long life-time: >50.000 hours
- High colour rendering: CRI > 80
- Color consistency of 3 SDCM
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- Mechanical design according to Zhaga
- Color temperature: 3000K = warm white; 4000K = neutral white
- Case temperature Tc = 85°C
- Tolerance range for optical and electrical data ±10%
- Max. torque for fixing: 0,5Nm

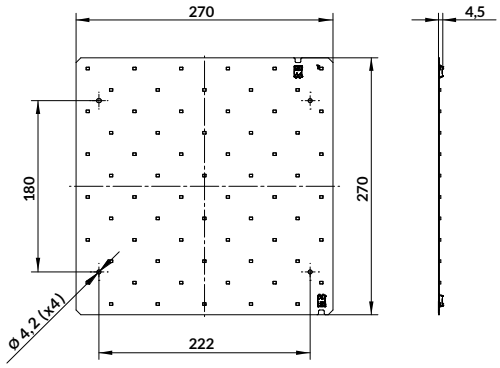
Typical values @ If nom, Tp = 65°C
(Tp: temperature measured at Tc point)

RecLED 270x270mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RecLED 270x270mm 1250lm 830 33V Optimum	1010 117 21746	3000	80	3	250	65	1296	171	8	30	960
RecLED 270x270mm 1250lm 840 33V Optimum	1010 117 21846	4000	80	3	250	65	1362	180	8	30	960

RecLED 270x270mm
Lifetime simulation based on LM80 LED data (9.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	45.000
960 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000

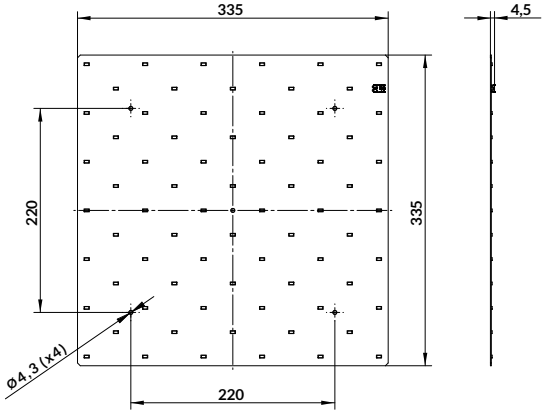


RecLED 335x335mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RecLED 335x335mm 4500lm 830 36V Optimum	1010 117 21446	3000	80	3	800	65	4377	161	27	34	1200
RecLED 335x335mm 4500lm 840 36V Optimum	1010 117 21646	4000	80	3	800	65	4508	166	27	34	1200

RecLED 335x335mm
Lifetime simulation based on LM80 LED data (10.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
800 mA	55°C	>60.000	>60.000	>60.000	49.000	36.000	26.000
	65°C	>60.000	>60.000	>60.000	45.000	33.000	24.000
	75°C	>60.000	>60.000	>60.000	41.000	31.000	22.000
1200 mA	55°C	>60.000	51.000	49.000	34.000	26.000	18.000
	65°C	>60.000	47.000	45.000	31.000	24.000	17.000
	75°C	>60.000	43.000	42.000	29.000	22.000	15.000



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Rectangular LED modules

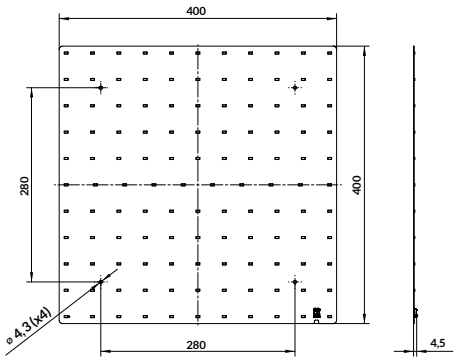
RecLED 400x400mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RecLED 400x400mm 5000lm 830 120V Optimum	1010 117 20446	3000	80	3	260	65	4873	170	29	110	600
RecLED 400x400mm 5000lm 840 120V Optimum	1010 117 20546	4000	80	3	260	65	5017	175	29	110	600
RecLED 400x400mm 5000lm 830 45V Optimum	1010 117 20646	3000	80	3	700	65	4918	175	29	41	1600
RecLED 400x400mm 5000lm 840 45V Optimum	1010 117 20746	4000	80	3	700	65	5063	175	29	41	1600

RecLED 400x400mm

Lifetime simulation based on LM80 LED data (10.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>60.000	>60.000	>60.000	>60.000	51.000	36.000
	65°C	>60.000	>60.000	>60.000	>60.000	47.000	33.000
	75°C	>60.000	>60.000	>60.000	>60.000	43.000	31.000
600 mA	55°C	>60.000	48.000	46.000	32.000	24.000	17.000
	65°C	>60.000	45.000	42.000	29.000	22.000	16.000
	75°C	>60.000	41.000	39.000	27.000	21.000	15.000



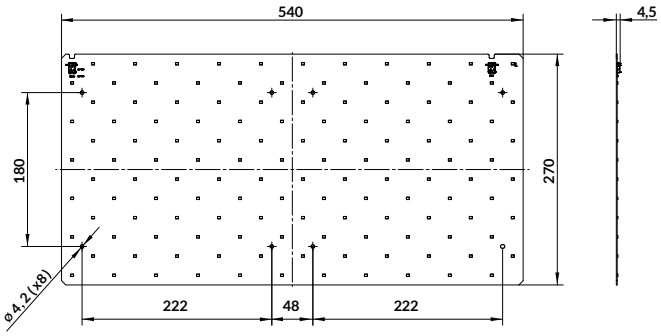
RecLED 540x270mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RecLED 540x270mm 2500lm 830 66V Optimum	1010 117 15746	3000	80	3	250	65	2591	171	15	61	960
RecLED 540x270mm 2500lm 840 66V Optimum	1010 117 15846	4000	80	3	250	65	2724	180	15	61	960
RecLED 540x270mm 2500lm 830 33V Optimum	1010 117 15946	3000	80	3	500	65	2591	171	15	30	1920
RecLED 540x270mm 2500lm 840 33V Optimum	1010 117 16046	4000	80	3	500	65	2724	180	15	30	1920

RecLED 540x270mm

Lifetime simulation based on LM80 LED data (9.000h), Lifetime simulation 66V version

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	45.000
500 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000



RecLED 540x270mm

Lifetime simulation based on LM80 LED data (9.000h), Lifetime simulation 33V version

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
250 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	45.000
1920 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000

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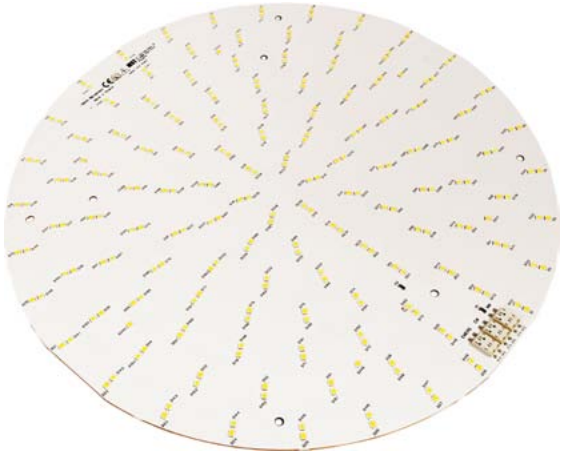
Round LED Tunable White modules

Product description

- Long life-time: >50.000 hours
- High colour rendering: CRI > 80
- Color consistency of 3 SDCM
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- Color temperature adjustable: from 2700K (warm white) to 6500K (cold white)
- Case temperature Tc = 85°C
- Tolerance range for optical and electrical data ±10%
- Max. torque for fixing: 0,5Nm

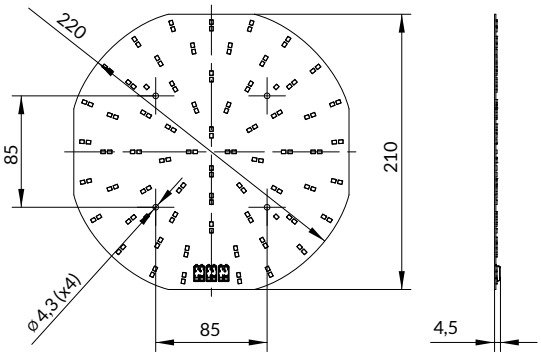
Typical values @ If nom, Tp = 45°C
(Tp: temperature measured at Tc point)



Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 220mm 1500lm 827-865 EMG 24V Optimum	1010 117 23046	2700	80	3	400	45	1405	158	9	22	1200
		6500	80	3	400	45	1538	173	9	22	1200
Emergency light		6500	80	3	400	45	185	161	1	3	600
RdLED 315mm 4000lm 827-865 EMG 36V Optimum	1010 117 27846	2700	80	3	700	45	3604	152	24	34	1500
		6500	80	3	700	45	4000	168	24	34	1500
Emergency light		6500	80	2	450	45	215	168	1	3	900

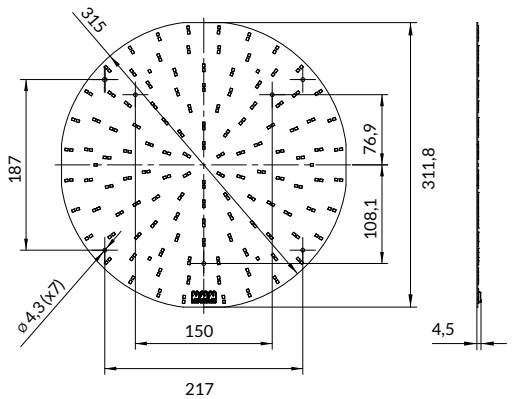
Lifetime simulation based on LM80 LED data (9.000h)
- RdLED 220mm 1500lm 827-865 EMG 24V Optimum

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
400 mA	45°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
1200 mA	45°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	48.000



Lifetime simulation based on LM80 LED data (9.000h)
- RdLED 315mm 4000lm 827-865 EMG 36V Optimum

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
700 mA	45°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
1500 mA	45°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	48.000



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Round LED modules

Product description

- Long life-time: > 50.000 hours
- High colour rendering: CRI > 80
- Colour consistency of 3 SDCM
- Re-workable push-in terminals enabling easy connection
- Compliance and approval: CE
- Colour temperature: 3000K = warm white; 4000K = neutral white
- Case temperature Tc = 85°C
- Tolerance range for optical and electrical data ±10%
- Max. torque for fixing: 0.5Nm

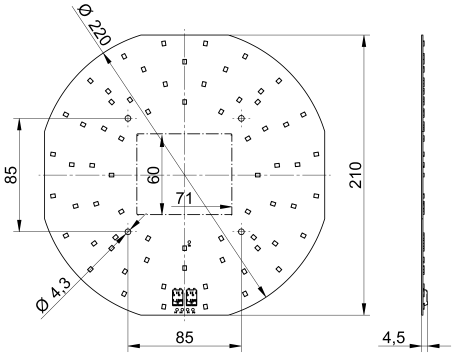
Typical values @ If nom, Tp = 65°C
(Tp: temperature measured at Tc point)

RdLED 220mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 220mm 1500lm 830 EMG 24V Optimum	101011721946	3000	80	3	390	65	1445	165	9	22	1250
Emergency light		3000	80	3	390	65	173	163	1.2	3	640
RdLED 220mm 1500lm 840 EMG 24V Optimum	101011722046	4000	80	3	390	65	1519	174	9	22	1250
Emergency light		4000	80	3	390	65	182	171	1.2	3	640
RdLED 220mm 1500lm 830 EMG SSW 24V Optimum	101011722146	3000	80	3	390	65	1445	165	9	22	1250
Emergency light		3000	80	3	390	65	173	163	1.2	3	640
RdLED 220mm 1500lm 840 EMG SSW 24V Optimum	101011722246	4000	80	3	390	65	1519	174	9	22	1250
Emergency light		4000	80	3	390	65	182	171	1.2	3	640

RdLED 220mm
Lifetime simulation based on LM80 LED data (9.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
350 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	45.000
1250 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000



Switch sensor window (applies to versions SSW)

RdLED 315mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 315mm 4000lm 830 EMG 24V Optimum	101011722346	3000	80	3	1050	65	3840	161	24	23	2500
Emergency light		3000	80	3	450	65	204	158	1.4	3	900
RdLED 315mm 4000lm 840 EMG 24V Optimum	101011722446	4000	80	3	1050	65	4036	169	24	23	2500
Emergency light		4000	80	3	450	65	214	167	1.4	3	900
RdLED 315mm 4000lm 830 EMG SSW 24V Optimum	101011722546	3000	80	3	1050	65	3840	161	24	23	2500
Emergency light		3000	80	3	450	65	204	158	1.4	3	900
RdLED 315mm 4000lm 840 EMG SSW 24V Optimum	101011722646	4000	80	3	1050	65	4036	169	24	23	2500
Emergency light		4000	80	3	450	65	214	167	1.4	3	900

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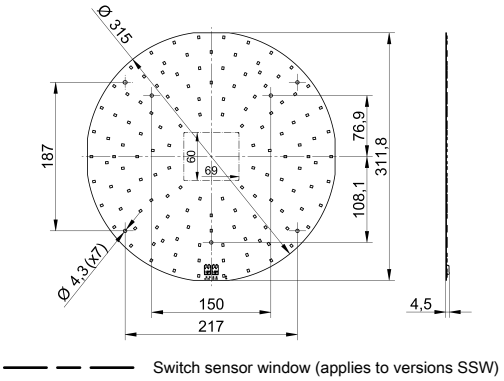
Round LED modules

RdLED 315mm
Lifetime simulation based on LM80 LED data (9.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
1050 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	48.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	44.000
2500 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000

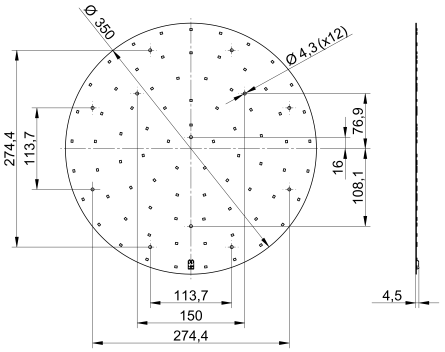


RdLED 350mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 350mm 4500lm 830 25V Optimum	101011744646	3000	80	3	1200	65	4333	158	27	23	1600
RdLED 350mm 4500lm 840 25V Optimum	101011754646	4000	80	3	1200	65	4464	163	27	23	1600

RdLED 350mm
Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
1200 mA	55°C	>72.000	71.000	57.000	50.000	30.000	27.000
	65°C	>72.000	61.000	49.000	43.000	26.000	23.000
	75°C	64.000	52.000	42.000	37.000	23.000	20.000
1600 mA	55°C	>72.000	67.000	54.000	47.000	28.000	28.000
	65°C	71.000	57.000	46.000	40.000	24.000	22.000
	75°C	61.000	50.000	39.000	34.000	21.000	19.000

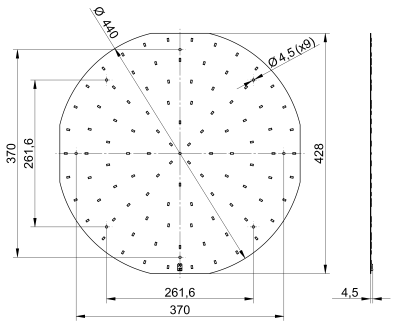


RdLED 440mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 440mm 5000lm 830 30V Optimum	101011721046	3000	80	3	1050	65	4868	166	29	28	2000
RdLED 440mm 5000lm 840 30V Optimum	101011721146	4000	80	3	1050	65	5012	171	29	28	2000

RdLED 440mm
Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
1050 mA	55°C	>72.000	>72.000	70.000	61.000	36.000	32.000
	65°C	>72.000	71.000	60.000	53.000	31.000	28.000
	75°C	>72.000	61.000	52.000	45.000	27.000	24.000
2000 mA	55°C	>72.000	67.000	54.000	47.000	28.000	25.000
	65°C	71.000	>57.000	46.000	40.000	24.000	22.000
	75°C	61.000	50.000	39.000	34.000	21.000	19.000

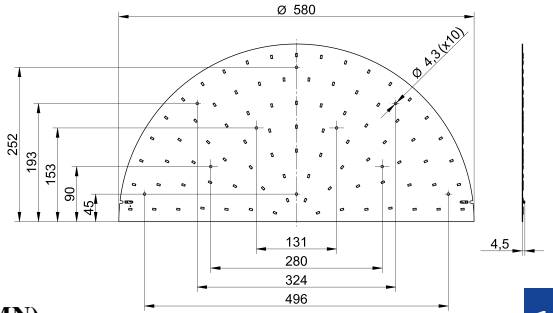


RdLED 1/2 580mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 1/2 580mm 4000lm 830 21V Optimum	101011717646	3000	80	3	1200	65	3906	167	23	19	2400
RdLED 1/2 580mm 4000lm 840 21V Optimum	101011717746	4000	80	3	1200	65	4021	172	23	19	2400

RdLED 1/2 580mm
Lifetime simulation based on LM80 LED data (10.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
1200 mA	55°C	>60.000	>60.000	>60.000	>60.000	47.000	34.000
	65°C	>60.000	>60.000	>60.000	>60.000	43.000	31.000
	75°C	>60.000	>60.000	>60.000	55.000	40.000	28.000
2400 mA	55°C	>60.000	51.000	49.000	34.000	26.000	18.000
	65°C	>60.000	47.000	45.000	31.000	24.000	17.000
	75°C	>60.000	43.000	42.000	29.000	22.000	15.000



Round LED modules

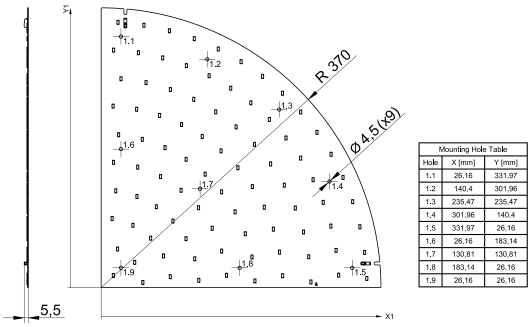
RdLED 1/4 740mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 1/4 740mm 1300lm 830 Optimum	101011711446	3000	80	3	270	65	1307	183	7	26	1800
RdLED 1/4 740mm 1300lm 840 Optimum	101011711546	4000	80	3	270	65	1347	189	7	26	1800

RdLED 1/4 740mm

Lifetime simulation based on LM80 LED data (12.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
270 mA	55°C	>72.000	>72.000	>72.000	>72.000	51.000	54.000
	65°C	>72.000	>72.000	>72.000	>72.000	44.000	39.000
	75°C	>72.000	>72.000	>72.000	68.000	39.000	34.000
1800 mA	55°C	>72.000	67.000	54.000	47.000	28.000	25.000
	65°C	71.000	57.000	46.000	40.000	24.000	22.000
	75°C	61.000	50.000	39.000	34.000	21.000	19.000



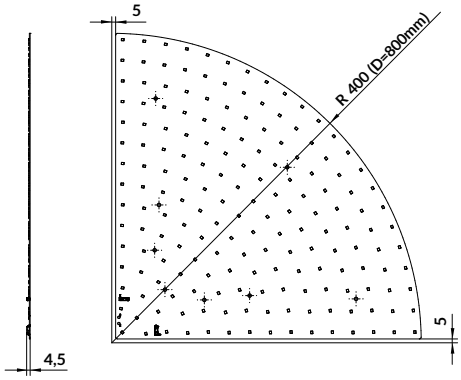
RdLED 1/4 800mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED 1/4 800mm 3000lm 830 33V Optimum	101011723246	3000	80	3	560	65	2885	170	17	30	2560
RdLED 1/4 800mm 3000lm 840 33V Optimum	101011723346	4000	80	3	560	65	3032	178	17	30	2560

RdLED 1/4 800mm

Lifetime simulation based on LM80 LED data (9.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
560 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
2560 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000



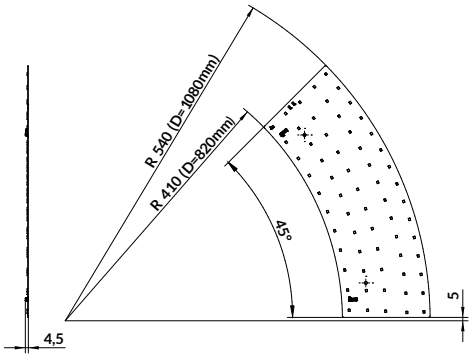
RdLED Ring 1/8 820-1080mm

Product name	Ordering code	Colour temp.	CRI	SDCM	If nominal [mA]	Tp nominal [°C]	Luminous flux @ If nom & Tp Φ [lm]	Efficiency @ If nom & Tp [lm/W]	Power @ If nom & Tp P [W]	Voltage @ If nom & Tp Vf [V]	Max. current If [mA]
RdLED Ring 1/8 820-1080mm 1100lm 830 24V Optimum	101011723446	3000	80	3	280	65	1049	170	6	22	1280
RdLED Ring 1/8 820-1080mm 1100lm 840 24V Optimum	101011723546	4000	80	3	280	65	1103	178	6	22	1280

RdLED Ring 1/8 820-1080mm

Lifetime simulation based on LM80 LED data (9.000h)

Forward current	Tp temperature	L70		L80		L90	
		B50	B10	B50	B10	B50	B10
280 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
1280 mA	55°C	>54.000	>54.000	>54.000	>54.000	>54.000	>54.000
	65°C	>54.000	>54.000	>54.000	>54.000	>54.000	46.000
	75°C	>54.000	>54.000	>54.000	>54.000	>54.000	40.000



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LED drivers

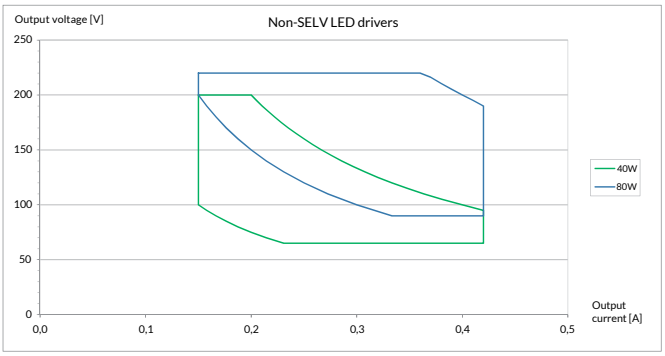
Product description

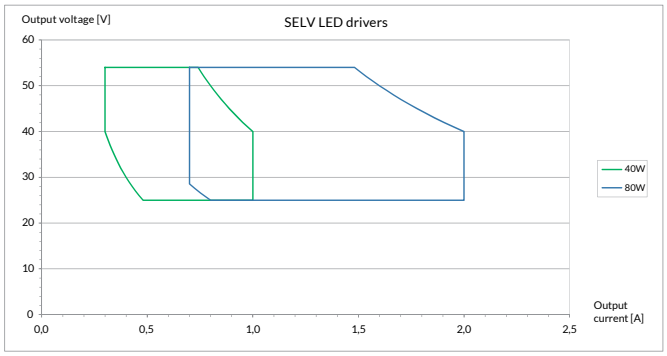
- Constant current LED driver
- Fixed current output, adjustable by Rset / LEDset
- For class I or II luminaire
- Safety according to EN 61347-1, 61347-2-13
- Performance according to EN 62384
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547
- Non-isolated and SELV versions available
- Low output ripple current - high quality of light
- Long lifetime - 100 000 hours
- Metal housing
- Ingress protection code - IP20

Electrical data

Specification item	Unit	Non-SELV LED drivers		SELV LED drivers	
		40W	80W	40W	80W
Nominal input voltage	[V]	220 ... 240	220 ... 240	220 ... 240	220 ... 240
AC voltage range	[V]	202 ... 254	202 ... 254	202 ... 254	202 ... 254
DC volatge range	[V]	186 ... 250	186 ... 250	186 ... 250	186 ... 250
Nominal input current	[A]	0.19	0.38	0.2	0.4
Nominal input frequency	[Hz]	50 / 60 / DC	50 / 60 / DC	50 / 60 / DC	50 / 60 / DC
Power factor (max output)	[-]	0.98	0,98	0.98	0.98
Total harmonic distortion	[%]	≤ 15	≤ 15	≤ 15	≤ 15
Efficiency	[%]	91	91	88	88
Output voltage	[V]	65 ... 200	90 ... 220	25 ... 54	25 ... 54
Output voltage maximum	[V]	340	340	60	60
Output current	[A]	0.15 ... 0.42	0.15 ... 0.42	0.30 ... 1.00	0.70 ... 2.00
Output current tolerance	[%]	± 5	± 5	± 5	± 5
Output power	[W]	15 ... 40	30 ... 80	12 ... 40	20 ... 80
Current ripple (LF)	[%]	≤ 4	≤ 4	≤ 4	≤ 4
Control method	[-]	Rset	Rset	LEDset	LEDset
Inrush current	[A]	19	19	21	21

Operating window





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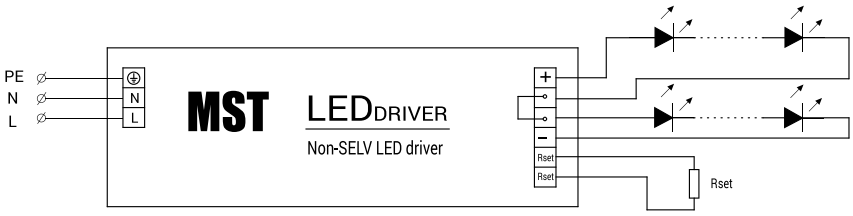
LED drivers

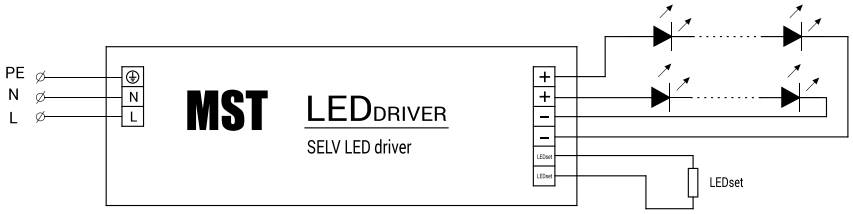
Wiring (solid wire only)

Specification item	LED drivers 40W/80W SELV / non-SELV
Wire cross section	0.5 ... 1.5 [mm²]
Strip length	8 ... 9 [mm]

Wiring for serial connection system



Wiring for parallel connection system



Temperature

Specification item	Unit	Non-SELV LED drivers		SELV LED drivers	
		40W	80W	40W	80W
Ambient temperature	[°C]	-25 ... +50	-25 ... +50	-25 ... +50	-25 ... +50
Tcase	[°C]	75	75	75	75

Surge immunity

Specification item	Unit	Non-SELV LED drivers		SELV LED drivers	
		40W	80W	40W	80W
Mains surge immunity - differential mode	[kV]	1	1	1	1
Mains surge immunity - common mode	[kV]	2	2	2	2

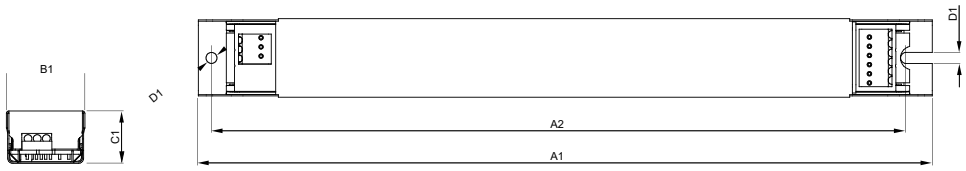
Protections / Approvals

Specification item	LED drivers 40W/80W SELV / non-SELV
Open load protection	yes
Short circuit protection	yes
Over power protection	yes
Approval marks	CE / ENEC

LED drivers

Dimensions

Specification item	Unité	Non-SELV LED drivers		SELV LED drivers	
		40W	80W	40W	80W
Length (A1)	[mm]	280	280	360	360
Width (B1)	[mm]	30	30	30	30
Height (C1)	[mm]	21	21	21	21
Fixing hole diameter (D1)	[mm]	4.2	4.2	4.2	4.2
Fixing hole distance (A2)	[mm]	265	265	345	345



Ordering codes

Elément de spécification	Non-SELV LED drivers		SELV LED drivers	
	40W	80W	40W	80W
LED driver 40W 65-200V 0.15-0.42A	1010 120 10546			
LED driver 80W 90-220V 0.15-0.42A		1010 120 10646		
LED driver 40W 25-54V 0.30-1.00A			1010 120 10246	
LED driver 80W 25-54V 0.70-2.00A				1010 120 10346

Rset ordering codes

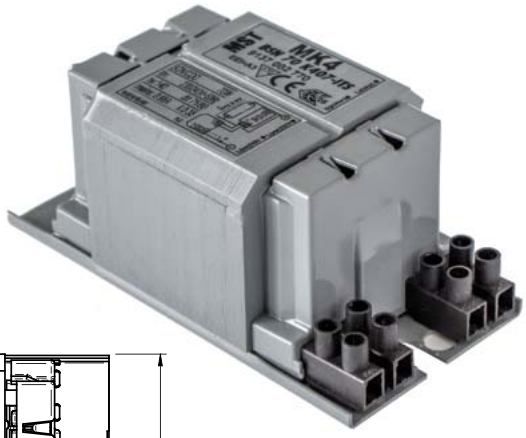
Product name	Ordering code	I_{LED} [mA]
Rset 36k Ohm	1010 115 15146	150
Rset 33k Ohm	1010 115 15246	154
Rset 27k Ohm	1010 115 15346	164
Rset 22k Ohm	1010 115 15446	175
Rset 18k Ohm	1010 115 15546	188
Rset 15k Ohm	1010 115 15646	201
Rset 12k Ohm	1010 115 15746	218
Rset 10k Ohm	1010 115 15846	233
Rset 8.2k Ohm	1010 115 15946	251
Rset 6.8k Ohm	1010 115 16046	267
Rset 5.6k Ohm	1010 115 16146	285
Rset 4.7k Ohm	1010 115 16246	300
Rset 3.9k Ohm	1010 115 16346	317
Rset 3.3k Ohm	1010 115 16446	331
Rset 2.7k Ohm	1010 115 16546	347
Rset 2.2k Ohm	1010 115 16646	362
Rset 1.8k Ohm	1010 115 16746	376
Rset 1.5k Ohm	1010 115 16846	387
Rset 1.2k Ohm	1010 115 16946	399
Rset 1k Ohm	1010 115 17046	407
Rset 0.82k Ohm	1010 115 17146	416
Rset 0.75k Ohm	1010 115 17246	420

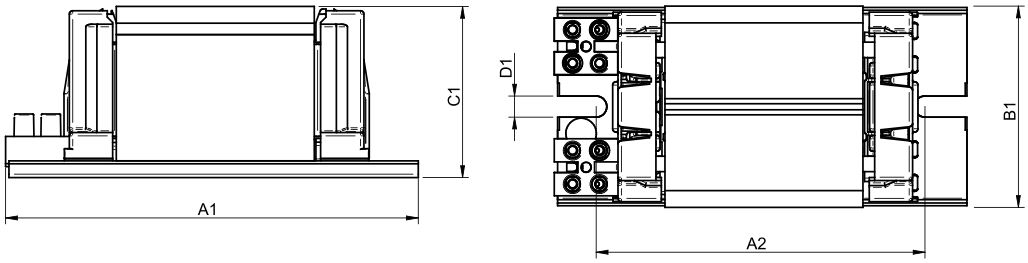
LEDset ordering codes

Product name	Ordering code	I_{LED} [mA]
LEDset 16.5k Ohm	1010 115 17346	303
LEDset 14.3k Ohm	1010 115 17446	350
LEDset 12.4k Ohm	1010 115 17546	403
LEDset 11k Ohm	1010 115 17646	455
LEDset 10k Ohm	1010 115 17746	500
LEDset 9.09k Ohm	1010 115 17846	550
LEDset 8.25k Ohm	1010 115 17946	606
LEDset 7.68k Ohm	1010 115 18046	651
LEDset 7.15k Ohm	1010 115 18146	699
LEDset 6.65k Ohm	1010 115 18246	752
LEDset 6.19k Ohm	1010 115 18346	808
LEDset 5.9k Ohm	1010 115 18446	847
LEDset 5.76k Ohm	1010 115 18546	868
LEDset 5.49k Ohm	1010 115 18646	911
LEDset 5.23k Ohm	1010 115 18746	956
LEDset 4.99k Ohm	1010 115 18846	1002
LEDset 4.75k Ohm	1010 115 18946	1053
LEDset 4.53k Ohm	1010 115 19046	1104
LEDset 4.32k Ohm	1010 115 19146	1157
LEDset 4.12k Ohm	1010 115 19246	1214
LEDset 4.02k Ohm	1010 115 19346	1244
LEDset 3.83k Ohm	1010 115 19446	1305
LEDset 3.74k Ohm	1010 115 19546	1337
LEDset 3.57k Ohm	1010 115 19646	1401
LEDset 3.48k Ohm	1010 115 19746	1437
LEDset 3.32k Ohm	1010 115 19846	1506
LEDset 3.24k Ohm	1010 115 19946	1543
LEDset 3.09k Ohm	1010 115 20046	1618
LEDset 3.01k Ohm	1010 115 20146	1661
LEDset 2.94k Ohm	1010 115 20246	1701
LEDset 2.87k Ohm	1010 115 20346	1742
LEDset 2.74k Ohm	1010 115 20446	1825
LEDset 2.67k Ohm	1010 115 20546	1873
LEDset 2.61k Ohm	1010 115 20646	1916
LEDset 2.55k Ohm	1010 115 20746	1961

Basic ballasts for high pressure sodium and metal halide lamps

- Impregnated electromagnetic ballasts
- Screw terminal blocks
- For use in combination with semi-parallel or series ignitors
- Winding temperature Tw = 140°C





220V, 50Hz, copper windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BMH 35 K300-ITS 220V 50Hz BC1-118	9137 002 83846	35	MH	0.53	45	yes	140	0.95	6	A3	118	94	61	52	6.2
BMH 70 K300-ITS 220V 50Hz BC1-118	9137 002 83946	70	MH	0.98	85	yes	140	0.95	12	A3	118	94	61	52	6.2

220V, 50Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 K300-I 220V 50Hz BC1-118	9137 002 84346	50	SON/MH	0.76	70	no	140	0.90	10	A3	118	94	61	52	6.2
BSN 70 K300-I 220V 50Hz BC1-118	9137 002 84546	70	SON/MH	0.98	75	no	140	0.95	12	A3	118	94	61	52	6.2
BSN 100 K300-I 220V 50Hz BC1-118	9137 002 84046	100	SON/MH	1.20	75	no	140	1.23	12	A3	118	94	61	52	6.2
BSN 150 K300-I 220V 50Hz BC2-126	9137 002 84146	150	SON/MH	1.80	75	no	140	1.96	18	A3	126	104	76	65	6.2
BSN 250 K300-I 220V 50Hz BC2-151	9137 002 84246	250	SON/MH	3.00	85	no	140	2.86	32	A3	151	129	76	65	6.2
BSN 400 K300-I 220V 50Hz BC3-166	9137 002 81846	400	SON/MH	4.45	85	no	140	3.60	45	A3	166	145	97	83	6.2
BSN 600 K300-I 220V 50Hz BC3-166	9137 002 84446	600	SON	5.80	80	no	140	5.00	60	A3	166	145	97	83	6.2

220V, 50Hz, aluminium windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 K300-ITS-A 220V 50Hz BC1-118	1010 109 11746	50	SON/MH	0.76	75	yes	140	1.00	10	A3	118	94	61	52	6.2
BSN 70 K300-ITS-A 220V 50Hz BC1-123	1010 109 11846	70	SON/MH	0.98	75	yes	140	1.23	12	A3	123	98	61	52	6.2
BSN 100 K300-ITS-A 220V 50Hz BC2-126	1010 109 11946	100	SON/MH	1.20	75	yes	140	1.52	12	A3	126	104	76	65	6.2
BSN 150 K300-ITS-A 220V 50Hz BC2-151	1010 109 12046	150	SON/MH	1.80	75	yes	140	2.30	18	A3	151	129	76	65	6.2
BSN 250 K300-ITS-A 220V 50Hz BC3-143	1010 109 12146	250	SON/MH	3.00	85	yes	140	3.03	32	A3	143	121	97	83	6.2

220V, 50Hz, aluminium windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 70 K300-I-A 220V 50Hz BC1-123	1010 109 20646	70	SON/MH	0.98	75	no	140	1.23	12	A3	123	98	61	52	6.2
BSN 100 K300-I-A 220V 50Hz BC2-126	1010 109 20746	100	SON/MH	1.20	75	no	140	1.52	12	A3	126	104	76	65	6.2
BSN 150 K300-I-A 220V 50Hz BC2-151	1010 109 16046	150	SON/MH	1.80	75	no	140	2.30	18	A3	151	129	76	65	6.2
BSN 250 K300-I-A 220V 50Hz BC3-143	1010 109 16146	250	SON/MH	3.00	85	no	140	3.03	32	A3	143	121	97	83	6.2
BSN 400 K300-I-A 220V 50Hz BC3-166	1010 109 16246	400	SON/MH	4.60	80	no	140	4.45	45	A3	166	145	97	83	6.2

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Basic ballasts for high pressure sodium and metal halide lamps

230V, 50Hz, copper windings, with thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BMH 35 K302-A2-ITS 230V 50Hz BC1-118	1010 109 25946	35	MH	0.53	35	yes	140	1.26	6	A2	118	94	61	52	6.2
BMH 70 K302-A2-ITS 230V 50Hz BC1-118	1010 109 26046	70	MH	0.98	55	yes	140	1.26	12	A2	118	94	61	52	6.2
BSN 50 K302-A2-ITS 230V 50Hz BC1-118	1010 109 23146	50	SON/MH	0.76	50	yes	140	1.26	10	A2	118	94	61	52	6.2
BSN 70 K302-A2-ITS 230V 50Hz BC1-118	1010 109 23246	70	SON/MH	0.98	55	yes	140	1.26	12	A2	118	94	61	52	6.2
BSN 100 K302-A2-ITS 230V 50Hz BC1-123	1010 109 23346	100	SON/MH	1.20	60	yes	140	1.40	14	A2	123	98	61	52	6.2
BSN 150 K302-A2-ITS 230V 50Hz BC2-134	1010 109 23446	150	SON/MH	1.80	60	yes	140	2.24	18	A2	134	113	76	65	6.2
BSN 250 K302-A2-ITS 230V 50Hz BC2-160	1010 109 23546	250	SON/MH	3.00	70	yes	140	3.25	32	A2	160	139	76	65	6.2
BSN 400 K302-A2-ITS 230V 50Hz BC3-166	1010 109 17946	400	SON/MH	4.45/4.60	80	yes	140	4.95	45	A2	166	145	97	83	6.2
BSN 600 K302-A2-ITS 230V 50Hz BC3-166	9137 002 79046	600	SON	5.80	80	yes	140	5.50	60	A2	166	145	97	83	6.2

230V, 50Hz, copper windings, without thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 K302-A2-I 230V 50Hz BC1-118	1010 109 23646	50	SON/MH	0.76	55	no	140	1.23	10	A2	118	94	61	52	6.2
BSN 70 K302-A2-I 230V 50Hz BC1-118	1010 109 23746	70	SON/MH	0.98	55	no	140	1.26	12	A2	118	94	61	52	6.2
BSN 100 K302-A2-I 230V 50Hz BC1-123	1010 109 23846	100	SON/MH	1.20	60	no	140	1.40	12	A2	123	98	61	52	6.2
BSN 150 K302-A2-I 230V 50Hz BC2-134	1010 109 23946	150	SON/MH	1.80	60	no	140	2.24	18	A2	134	113	76	65	6.2
BSN 250 K302-A2-I 230V 50Hz BC2-160	1010 109 24046	250	SON/MH	3.00	70	no	140	3.25	32	A2	160	139	76	65	6.2
BSN 400 K302-A2-I 230V 50Hz BC3-166	9137 002 81946	400	SON/MH	4.45/4.60	80	no	140	4.95	45	A2	166	145	97	83	6.2

230V, 50Hz, copper windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BMH 35 K302-ITS 230V 50Hz BC1-118	9137 002 80546	35	MH	0.53	50	yes	140	0.95	6	A3	118	94	61	52	6.2
BMH 70 K302-ITS 230V 50Hz BC1-118	9137 002 80846	70	MH	0.98	75	yes	140	1.23	12	A2	118	94	61	52	6.2
BSN 50 K302-ITS 230V 50Hz BC1-118	1010 109 17446	50	SON/MH	0.76	60	yes	140	0.93	10	A3	118	94	61	52	6.2
BSN 70 K302-ITS 230V 50Hz BC1-118	1010 109 17546	70	SON/MH	0.98	75	yes	140	1.23	12	A3	118	94	61	52	6.2
BSN 100 K302-ITS 230V 50Hz BC1-123	1010 109 17646	100	SON/MH	1.20	70	yes	140	1.35	12	A3	123	98	61	52	6.2
BSN 150 K302-ITS 230V 50Hz BC2-126	1010 109 17746	150	SON/MH	1.80	80	yes	140	2.03	18	A3	126	104	76	65	6.2
BSN 250 K302-ITS 230V 50Hz BC2-151	1010 109 17846	250	SON/MH	3.00	85	yes	140	2.93	32	A3	151	129	76	65	6.2

230V, 50Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 K302-I 230V 50Hz BC1-118	9137 002 82146	50	SON/MH	0.76	70	no	140	0.93	10	A3	118	94	61	52	6.2
BSN 70 K302-I 230V 50Hz BC1-118	9137 002 82646	70	SON/MH	0.98	75	no	140	1.23	12	A3	118	94	61	52	6.2
BSN 100 K302-I 230V 50Hz BC1-123	9137 002 81746	100	SON/MH	1.20	70	no	140	1.38	12	A3	123	98	61	52	6.2
BSN 150 K302-I 230V 50Hz BC2-126	9137 002 83046	150	SON/MH	1.80	80	no	140	2.03	18	A3	126	104	76	65	6.2
BSN 250 K302-I 230V 50Hz BC2-151	9137 002 83146	250	SON/MH	3.00	85	no	140	2.93	32	A3	151	129	76	65	6.2

230V, 50Hz, aluminium windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BMH 35 K302-ITS-A 230V 50Hz BC1-118	1010 109 15146	35	MH	0.53	65	yes	140	1.00	6	A3	118	94	61	52	6.2
BMH 70 K302-ITS-A 230V 50Hz BC1-123	1010 109 15246	70	MH	0.98	85	yes	140	1.23	12	A3	123	98	61	52	6.2
BSN 50 K302-ITS-A 230V 50Hz BC1-118	1010 109 10046	50	SON/MH	0.76	80	yes	140	1.00	10	A3	118	94	61	52	6.2
BSN 70 K302-ITS-A 230V 50Hz BC1-123	1010 109 10146	70	SON/MH	0.98	85	yes	140	1.23	12	A3	123	98	61	52	6.2
BSN 100 K302-ITS-A 230V 50Hz BC2-126	1010 109 10246	100	SON/MH	1.20	75	yes	140	1.52	12	A3	126	104	76	65	6.2
BSN 150 K302-ITS-A 230V 50Hz BC2-151	1010 109 10346	150	SON/MH	1.80	75	yes	140	2.60	18	A3	151	129	76	65	6.2
BSN 250 K302-ITS-A 230V 50Hz BC3-143	1010 109 10446	250	SON/MH	3.00	80	yes	140	3.03	32	A3	143	121	97	83	6.2
BSN 400 K302-ITS-A 230V 50Hz BC3-166	1010 109 10546	400	SON/MH	4.60	80	yes	140	4.45	45	A3	166	145	97	83	6.2
BSN 600 K302-ITS-A 230V 50Hz BC3-193	1010 109 10646	600	SON	6.10	80	yes	140	5.95	60	A3	193	172	97	83	6.2

Basic ballasts for high pressure sodium and metal halide lamps

220V, 60Hz, copper windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 K301-ITS 220V 60Hz BC1-118	9137 002 96046	50	SON/MH	0.76	70	yes	140	0.90	7	A3	118	94	61	52	6.2
BSN 70 K301-ITS 220V 60Hz BC1-118	9137 002 93046	70	SON/MH	0.98	80	yes	140	0.95	9	A3	118	94	61	52	6.2
BSN 100 K301-ITS 220V 60Hz BC1-123	9137 002 91946	100	SON/MH	1.20	80	yes	140	1.11	10	A3	123	98	61	52	6.2
BSN 150 K301-ITS 220V 60Hz BC2-134	9137 002 88146	150	SON/MH	1.80	80	yes	140	1.98	16	A3	134	113	76	65	6.2
BSN 250 K301-ITS 220V 60Hz BC2-160	9137 002 92446	250	SON/MH	3.00	80	yes	140	2.80	26	A3	160	139	76	65	6.2
BSN 400 K301-ITS 220V 60Hz BC3-166	9137 002 87646	400	SON/MH	4.45/4.60	75	yes	140	4.75	26	A3	166	145	97	83	6.2

220V, 60Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 250 K301-I 220V 60Hz BC2-160	9137 002 87746	250	SON/MH	3.00	80	no	140	2.80	26	A3	160	139	76	65	6.2
BSN 600 K301-I 220V 60Hz BC3-166	9137 002 88246	600	SON	5.80	80	no	140	5.00	43	A3	166	145	97	83	6.2

220V, 60Hz, aluminium windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 70 K301-ITS-A 220V 60Hz BC1-118	1010 109 12546	70	SON/MH	0.98	80	yes	140	1.00	9	A3	118	94	61	52	6.2

220V, 60Hz, aluminium windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 150 K301-I-A 220V 60Hz BC2-126	1010 109 18046	150	SON/MH	1.80	85	no	140	1.60	18	A3	126	104	76	65	6.2
BSN 250 K301-I-A 220V 60Hz BC2-160	1010 109 18146	250	SON/MH	3.00	80	no	140	3.00	26	A3	160	139	76	65	6.2
BSN 400 K301-I-A 220V 60Hz BC3-166	1010 109 18246	400	SON/MH	4.60	80	no	140	4.75	38	A3	166	145	97	83	6.2
BSN 600 K301-I-A 220V 60Hz BC3-193	1010 109 18346	600	SON	6.10	85	no	140	5.00	43	A3	193	172	97	83	6.2

208/240V, 60Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 150 K3012 208/240V 60Hz BC2-126	1010 109 27646	150	SON/MH	1.80	75/85	no	140	1.70	18	A3	126	104	76	65	6.2
BSN 250 K3012 208/240V 60Hz BC2-151	1010 109 27746	250	SON/MH	3.00	75/85	no	140	2.60	32	A3	151	129	76	65	6.2

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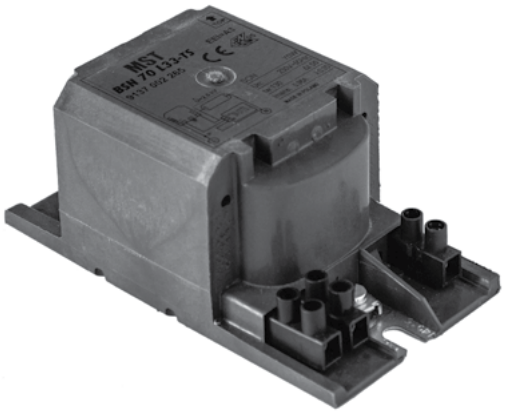
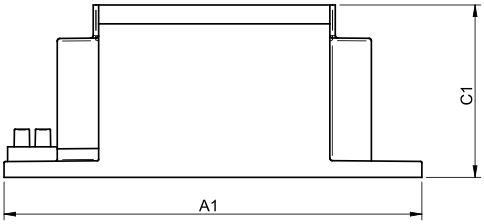
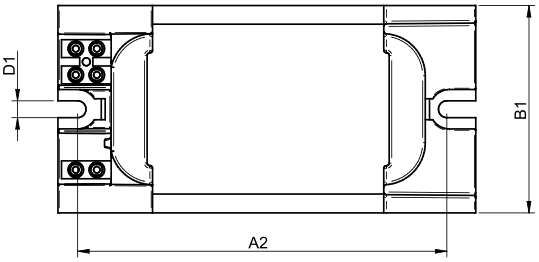
Heavy Duty ballasts for high pressure sodium and metal halide lamps

- Encapsulated electromagnetic ballasts, dedicated especially for harsh and corrosive environments
- Screw terminal blocks
- For use in combination with semi-parallel or series ignitors
- Winding temperature Tw =130°C







230V, 50Hz, copper winding, with thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 L33-A2-TS 230V 50Hz HD1-118	9136 039 20446	50	SON/MH	0.76	50	yes	130	1.27	10	A2	118	103	65	53	6.2
BSN 70 L33-A2-TS 230V 50Hz HD1-118	9137 002 26546	70	SON/MH	0.98	55	yes	130	1.28	12	A2	118	103	65	53	6.2
BSN 100 L33-A2-TS 230V 50Hz HD1-123	1010 110 10146	100	SON/MH	1.20	65	yes	130	1.38	14	A2	123	108	65	53	6.2
BSN 150 L33-A2-TS 230V 50Hz HD2-126	1010 110 10246	150	SON/MH	1.80	60	yes	130	1.80	18	A2	126	107	81	66	6.2
BSN 250 L33-A2-TS 230V 50Hz HD2-151	1010 110 10346	250	SON/MH	3.00	75	yes	130	4.55	32	A2	151	132	81	66	6.2
BSN 400 L33-A2-TS 230V 50Hz HD3-166	9137 002 26946	400	SON/MH	4.45/4.60	70	yes	130	4.55	45	A2	166	147	102	84	6.2

230V, 50Hz, copper windings, with thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 50 L33-TS 230V 50Hz HD1-118	9137 002 53646	50	SON/MH	0.76	60	yes	130	1.00	10	A3	118	103	65	53	6.2
BSN 100 L33-TS 230V 50Hz HD1-123	9137 002 26746	100	SON/MH	1.20	70	yes	130	1.30	12	A3	123	108	65	53	6.2
BSN 150 L33-TS 230V 50Hz HD2-126	9137 002 26146	150	SON/MH	1.80	75	yes	130	1.80	18	A3	126	107	81	66	6.2
BSN 250 L33-TS 230V 50Hz HD2-151	9137 002 26346	250	SON/MH	3.00	80	yes	130	2.70	32	A3	151	132	81	66	6.2

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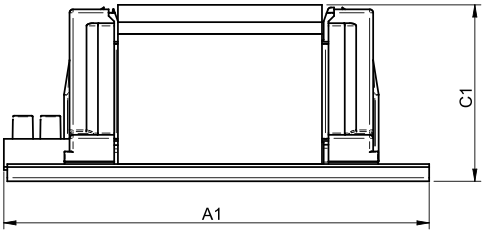
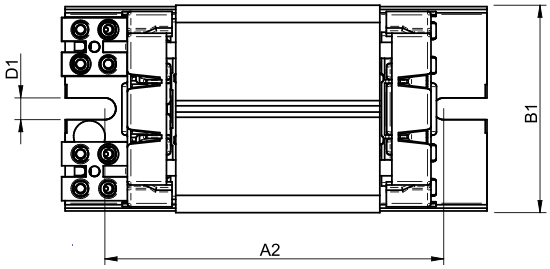
Reinforced ballasts for high pressure sodium and metal halide lamps

- Impregnated electromagnetic ballasts
- Dedicated for class II luminaires
- Screw terminal blocks
- For use in combination with series ignitors
- Winding temperature Tw=140°C





230V, 50Hz, copper windings, with thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 70/50 K302-A2-TS-R 230V 50Hz BC1-118	1010 109 28646	70/50	SON/MH	0.98/0.76	50/40	yes	140	1.41	12	A2	118	94	61	52	6.2
BSN 70 K202-A2-TS-R 230V 50Hz BC1-118	1010 109 24646	70	SON/MH	0.98	55	yes	140	1.26	12	A2	118	94	61	52	6.2
BSN 100 K202-A2-TS-R 230V 50Hz BC1-123	1010 109 24746	100	SON/MH	1.20	60	yes	140	1.40	14	A2	123	98	61	52	6.2
BSN 150 K202-A2-TS-R 230V 50Hz BC2-134	1010 109 24846	150	SON/MH	1.80	55	yes	140	2.24	20	A2	134	113	76	65	6.2
BSN 250 K202-A2-TS-R 230V 50Hz BC2-160	1010 109 24946	250	SON/MH	3.00	70	yes	140	3.25	32	A2	160	139	76	65	6.2
BSN 400 K307-A2-TS-R 230/240V 50Hz BC3-166	9137 002 93446	400	SON/MH	4.45/4.60	80	yes	140	4.95	45	A2	166	145	97	83	6.2

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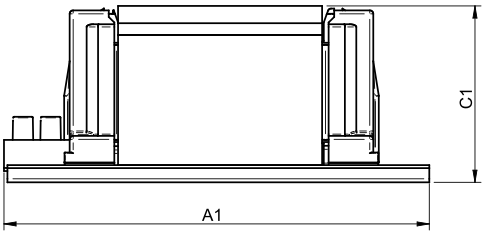
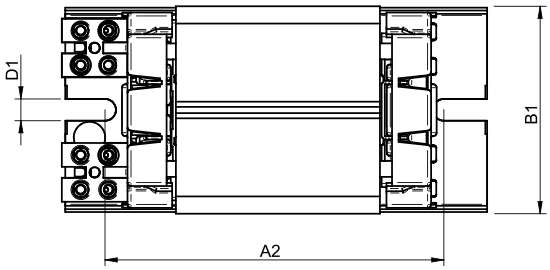
Basic step dimming ballasts for high pressure sodium lamps

- Impregnated electromagnetic ballasts
- Dedicated for applications with power reduction (additional controller or power switch is required)
- Screw terminal blocks
- For use in combination with series ignitors
- Winding temperature Tw=140°C





Copper windings, with thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BSN 70/50 K302-A2-TS 230V 50Hz BC1-123	1010 109 25446	70/50	SON/MH	0.98/0.76	50/40	yes	140	1.41	12	A2	123	98	61	52	6.2
BSN 100/70 K302-A2-TS 230V 50Hz BC1-123	1010 109 25546	100/70	SON/MH	1.20/0.98	65/55	yes	140	1.39	14	A2	123	98	61	52	6.2
BSN 150/100 K302-A2-TS 230V 50Hz BC2-134	1010 109 25646	150/100	SON/MH	1.80/1.20	60/40	yes	140	2.36	12/18	A2	134	113	76	65	6.2
BSN 250/150 K302-A2-TS 230V 50Hz BC2-160	1010 109 28746	250/150	SON	3.00	70	yes	140	3.27	32	A2	160	139	76	65	6.2
BSN 400/250 K407-A2-TS 230/240V 50Hz BC3-166	9137 002 86446	400/250	SON	4.60/4.45	80	yes	140	5.50	45	A2	166	145	97	83	6.2

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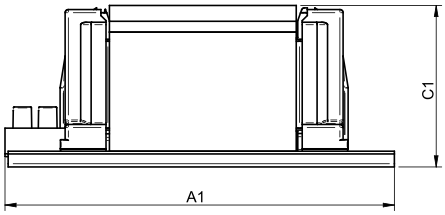
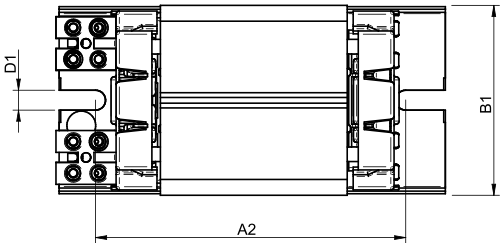
Basic ballasts for high pressure mercury lamps

- Impregnated electromagnetic ballast
- Screw terminal blocks
- For use in combination with parallel ignitors for HPI lamps
- Winding temperature Tw=140°C





220V, 50Hz, aluminium windings, without thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 250 K200-A2-A 220V 50Hz BC2-151	1010 109 14446	250	HPL/HPI	2.13/2.15	75	no	140	2.55	18	A2	151	129	76	65	6.2
BHL 400 K200-A2-A 220V 50Hz BC3-143	1010 109 14546	400	HPL/HPI	3.25/3.40	85	no	140	3.00	25/28	A2	143	121	97	83	6.2

220V, 50Hz, aluminium windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 125 K200-A 220V 50Hz BC2-126	1010 109 14346	125	HPL	1.15	65	no	140	1.51	10	A3	126	104	76	65	6.2
BHL 400 K200-A 220V 50Hz BC3-143	1010 109 14546	400	HPL/HPI	3.25/3.40	85	no	140	3.00	25/28	A3	143	121	97	83	6.2

220V, 50Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 80 K200 220V 50Hz BC1-118	9137 002 83746	80	HPL	0.80	70	no	140	0.96	7	A3	118	94	61	52	6.2
BHL 125 K200 220V 50Hz BC1-118	9137 002 83446	125	HPL	1.15	85	no	140	1.15	10	A3	118	94	61	52	6.2
BHL 250 K200 220V 50Hz BC2-126	9137 002 83546	250	HPL/HPI	2.13/2.15	85	no	140	2.02	18	A3	126	104	76	65	6.2
BHL 400 K200 220V 50Hz BC2-151	9137 002 83646	400	HPL/HPI	3.25/3.40	80/85	no	140	2.98	25/28	A3	151	129	76	65	6.2

230V, 50Hz, copper windings, with thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 250 K202-A2-TS 230V 50Hz BC2-126	1010 109 19046	250	HPL/HPI	2.13/2.15	85	yes	140	2.02	18	A2	126	104	76	65	6.2
BHL 400 K202-A2-TS 230V 50Hz BC2-151	1010 109 19446	400	HPL/HPI	3.25/3.40	80/85	yes	140	3.00	25/28	A2	151	129	76	65	6.2

230V, 50Hz, copper windings, without thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 125 K202-A2 230V 50Hz BC1-111	1010 109 28046	125	HPL	1.15	65	no	140	1.26	10	A2	111	94	61	52	6.2
BHL 250 K202-A2 230V 50Hz BC2-126	9137 002 83246	250	HPL/HPI	2.13/2.15	85	no	140	2.02	18	A2	126	104	76	65	6.2
BHL 400 K202-A2 230V 50Hz BC2-151	9137 002 84646	400	HPL/HPI	3.25/3.40	80/85	no	140	3.03	25/28	A2	151	129	76	65	6.2
BHL 700 K202-A2 230V 50Hz BC3-166	1010 109 21946	700	HPL	5.40	80	no	140	5.50	40	A2	166	145	97	83	6.2

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Basic ballasts for high pressure mercury lamps

230V, 50Hz, aluminium windings, with thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 250 K202-A2-TS-A 230V 50Hz BC2-151	1010 109 19246	250	HPL/HPI	2.13/2.15	85	yes	140	2.25	18	A2	151	129	76	65	6.2
BHL 400 K202-A2-TS-A 230V 50Hz BC3-166	1010 109 19646	400	HPL/HPI	3.25/3.40	75/85	yes	140	4.34	25/28	A2	166	145	97	83	6.2

230V, 50Hz, aluminium windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 50 K202-A 230V 50Hz BC1-118	1010 109 13146	50	HPL	0.61	80	no	140	1.00	7	A3	118	94	61	52	6.2
BHL 80 K202-A 230V 50Hz BC1-118	1010 109 13246	80	HPL	0.80	85	no	140	1.00	7	A3	118	94	61	52	6.2
BHL 125 K202-A 230V 50Hz BC2-126	1010 109 13346	125	HPL	1.15	85	no	140	1.51	10	A3	126	104	76	65	6.2
BHL 250 K202-A2-A 230V 50Hz BC2-151	1010 109 13446	250	HPL/HPI	2.13/2.15	85	no	140	2.55	18	A2	151	129	76	65	6.2
BHL 400 K202-A2-A 230V 50Hz BC3-166	1010 109 13546	400	HPL/HPI	3.25/3.40	75/80	no	140	4.34	25/28	A2	166	145	97	83	6.2

230V, 50Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 125 K202 230V 50Hz BC1-118	9137 002 85946	125	HPL	1.15	85	no	140	1.55	10	A3	118	94	61	52	6.2

230V/240V, 50Hz, copper windings, without thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 250 K307-A2-TS 230/240V 50Hz BC2-134	1010 109 19146	250	HPL/HPI	2.13/2.15	80/85	yes	140	2.25	18	A2	134	113	76	65	6.2
BHL 400 K307-A2-TS 230/240V 50Hz BC2-160	1010 109 19546	400	HPL/HPI	3.25/3.40	80/85	yes	140	3.24	28/28	A2	160	139	76	65	6.2

230V/240V, 50Hz copper windings, without thermal protection

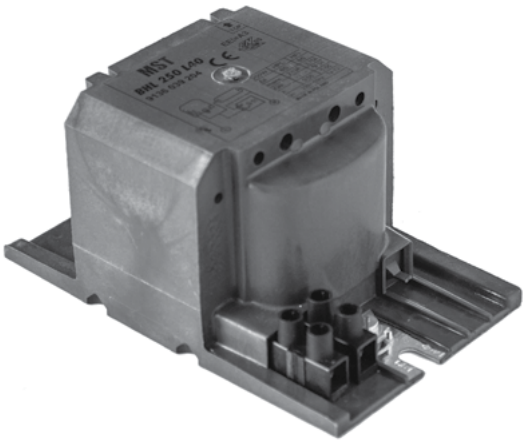
Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 50/80 K407 230/240V 50Hz BC1-118	9137 002 86146	50/80	HPL	0.61/0.80	55/80	no	140	0.96	7	A3	118	94	61	52	6.2
BHL 80/125 K407 230/240V 50Hz BC1-118	9137 002 80246	80/125	HPL	0.80/1.15	50/80	no	140	1.23	7/10	A3	118	94	61	52	6.2
BHL 125 K307 230/240V 50Hz BC1-118	9137 002 86046	125	HPL	1.15	85	no	140	1.15	10	A3	118	94	61	52	6.2

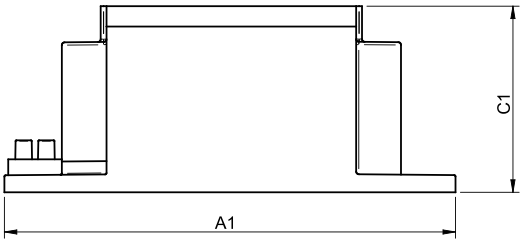
220V, 60Hz, copper windings, without thermal protection

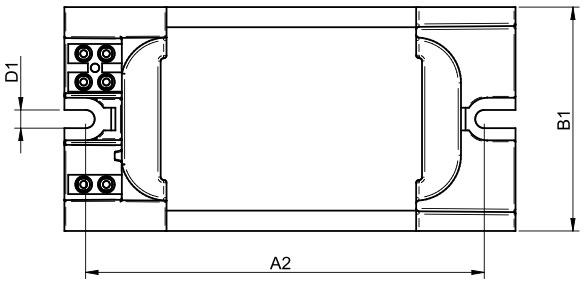
Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 125 K201 220V 60Hz BC1-118	9137 002 87946	125	HPL	1.15	85	no	140	0.93	9	A3	118	94	61	52	6.2
BHL 250 K201 220V 60Hz BC2-126	9137 002 98046	250	HPL/HPI	2.13/2.15	85	no	140	1.95	15	A3	126	104	76	65	6.2
BHL 400 K201 220V 60Hz BC2-151	9137 002 87846	400	HPL/HPI	3.25/3.40	80/85	no	140	2.85	20/23	A3	151	129	76	65	6.2

Heavy Duty ballasts for high pressure mercury lamps

- Encapsulated electromagnetic ballasts, dedicated especially for harsh and corrosive environments
- Screw terminal blocks
- For use in combination with parallel ignitors for HPI lamps
- Winding temperature Tw =130°C







230V, 50Hz, copper windings, without thermal protection, A2 class

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 250 L40-A2 230V 50Hz HD2-126	9136 039 20446	250	HPL/HPI	2.13/2.15	85	no	130	1.84	18	A2	126	107	81	66	6.2
BHL 400 L40-A2 230V 50Hz HD2-151	9136 049 20446	400	HPL/HPI	3.25/3.40	75/80	no	130	2.75	25/28	A2	151	132	81	66	6.2

230V, 50Hz, copper windings, without thermal protection

Product name	Ordering code	Power	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]				
											A1	A2	B1	C1	D1
BHL 80 L40 230V 50Hz HD1-118	9136 017 10446	80	HPL	0.80	60	no	130	1.00	7	A3	118	103	65	53	6.2
BHL 125 L40 230V 50Hz HD1-118	9136 029 50446	125	HPL	1.15	70	no	130	1.26	10	A3	118	103	65	53	6.2

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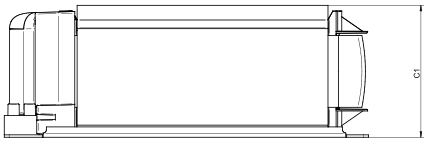
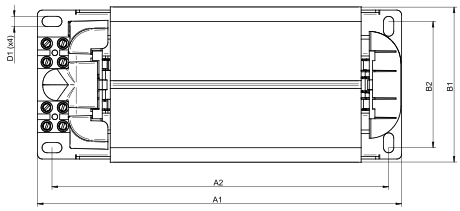
Basic horticulture ballasts for high pressure sodium lamps

- Impregnated electromagnetic ballast
- Horticulture applications
- Screw terminal blocks
- For use in combination with semi-parallel ignitors or series ignitors
- Winding temperature Tw=140°C





230V, 50Hz

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]					
													A1	A2	B1	B2	C1	D1
BSN 250 K302-A2-ITS 230V 50Hz BC2-160	1010 109 23546	250	230	50	SON/MH	3.00	70	yes	140	3.25	32	A2	160	139	76	-	65	6.2
BSN 250 K302-ITS 230V 50Hz BC2-151	1010 109 17846	250	230	50	SON/MH	3.00	85	yes	140	2.93	32	A3	151	129	76	-	65	6.2
BSN 250 K302-ITS-A 230V 50Hz BC3-143	1010 109 10446	250	230	50	SON/MH	3.00	80	yes	140	3.03	32	A3	143	121	97	-	83	6.2
BSN 400 K302-ITS-A 230V 50Hz BC3-166	1010 109 10546	400	230	50	SON/MH	4.60	80	yes	140	4.45	45	A3	166	145	97	-	83	6.2
BSN 400 K302-A2-ITS 230V 50Hz BC3-166	1010 109 17946	400	230	50	SON/MH	4.45/4.60	80	yes	140	4.95	45	A2	166	145	97	-	83	6.2
BSN 600 K302-A2-ITS 230V 50Hz BC3-166	9137 002 79046	600	230	50	SON	5.80	80	yes	140	5.50	60	A2	166	145	97	-	83	6.2
BSN 600 K302-ITS-A 230V 50Hz BC3-193	1010 109 10646	600	230	50	SON	6.10	80	yes	140	5.95	60	A3	193	172	97	-	83	6.2

380V, 50Hz

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]					
													A1	A2	B1	B2	C1	D1
BSN 600 K3014-A2-I 380V 50Hz BC3-166	9137 002 88546	600	380	50	SON	3.62	85	no	140	5.10	22.5µF/450V	A2	166	145	97	-	83	6.2

400V, 50Hz

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]					
													A1	A2	B1	B2	C1	D1
BSN 600 K309-A2-ITS 400V 50Hz BC3-166	9137 002 88346	600	400	50	SON	3.62	85	yes	140	5.50	22.5µF/450V	A2	166	145	97	-	83	6.2
BSN 600 K309-ITS-A 400V 50Hz BC3-193	1010 109 10746	600	400	50	SON	3.62	85	yes	140	5.95	22.5µF/450V	A3	193	172	97	78	83	6.2
BSN 750 K209-A2-TS 400V 50Hz BC3-193	1010 109 27546	750	400	50	SON	3.40	80	yes	140	7.00	28µF/450V	A2	193	172	97	-	83	3.2

480V, 60Hz

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	EEI	Dimensions [mm]					
													A1	A2	B1	B2	C1	D1
BSN 600 K3030-ITS 480V 60Hz BC3-166	9137 002 92946	600	480	60	SON	3.26	85	yes	140	5.50	15µF/480V	A3	166	145	97	-	83	6.2
BSN 600 K3030-ITS-A 480V 60Hz BC3-193	1010 109 10846	600	480	60	SON	3.26	85	yes	140	5.95	15µF/480V	A3	193	172	97	78	83	6.2

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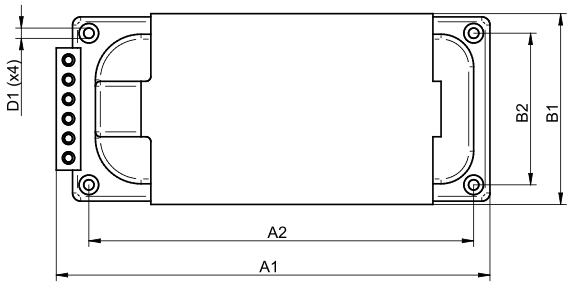
High Power ballasts for high pressure sodium, mercury and metal halide lamps

- Encapsulated ballasts for use with high power lamps
- A2 energy efficiency index
- For use in combination in series, semi-parallel (1000W), or parallel ignitor (HPI lamps)
- Encapsulated dedicated especially for harsh and corrosive environments
- Screw terminal blocks
- Copper windings
- Winding temperature Tw=130°



Heavy Duty, copper windings, A2 class

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	We-ight [kg]	Capaci-tor [µF]	Dimensions [mm]					
										A1	A2	B1	B2	C1	D1
BSN 1000 L02-A2 220V 50Hz	9137 002 18146	1000	220	50	MHN-LA/ SON	9.30/10.30/ 10.60	70	11.50	100uF 280V	256	222	117	88	102	7
BSN 1000 L43-A2 220V 60Hz	9137 002 17646	1000	220	60	MHN-LA/ SON	9.30/10.30/ 10.60	70	11.50	100uF 280V	256	222	117	88	102	7
BSN 1000 L78-A2 230/240V 50Hz	9137 002 17546	1000	230/240	50	MHN-LA/ SON	9.30/10.30/ 10.60	70	11.50	100uF 280V	256	222	117	88	102	7
BHL 1000 L02-A2 220V 50Hz	9137 002 18446	1000	220	50	HPL	8.25	65	8.60	60uF 250V	206	172	117	88	102	7
BHL 1000 L78-A2 230/240V 50Hz	9137 002 17346	1000	230/240	50	HPL	7.50/8.25	65	8.60	60uF 250V	206	172	117	88	102	7
BMH 1800 L43-A2 220V 60Hz	9137 002 17846	1800	220	60	MHN-SA	17.30	80	17.50	200uF 280V	317	282	117	88	102	7
BMH 1800 L78-A2 230/240V 50Hz	9137 002 17746	1800	230/240	50	MHN-SA	17.30	80	17.50	200uF 280V	317	282	117	88	102	7
BHL 2000 L78-A2 230/240V 50Hz	9137 002 18046	2000	230/240	50	HPI	16.50	75	17.50	100uF 280V	317	282	117	88	102	7
BHD 2000 L76-A2 380/400/415V 50Hz	9137 002 32146	2000	380/400/415	50	MHN-LA/ SA/FC	11.30/9.60/ 10.30/11.00	70/75	17.50	60uF 450V	317	282	117	88	102	7
BHD 2000 L77-A2 400/415/430V 50Hz	9137 002 48746	2000	400/415/430	50	MHN-LA/ SA	9.60/10.30/ 11.30	70/75	17.50	60uF 450V	317	282	117	88	102	7
BMH 2000 L76-A2 380/400/415V 50Hz	9137 002 18246	1800/ 2000	380/400/415	50	MHN-LA/ SA	10.50/9.60/ 10.30	65	17.50	60uF 450V	317	282	117	88	102	7
BHL 2000 L50-A2 360/380/400V 50Hz	9137 002 18346	2000	360/380/400	50	HPI	8.60/9.10	70	11.50	40uF 450V	256	222	117	88	102	7
BHL 2000 L76-A2 380/400/415V 50Hz	9137 002 17946	2000	380/400/415	50	HPI	8.60/9.10	70	17.50	40uF 450V	317	282	117	88	102	7

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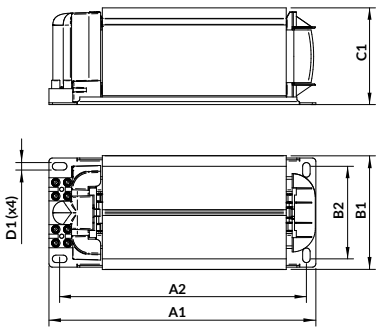
High Power ballasts for high pressure sodium, mercury and metal halide lamps

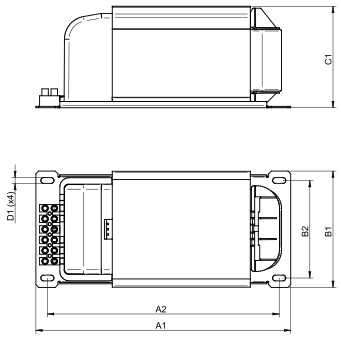
- Basic ballasts for use with high power lamps
- A2 energy efficiency index
- For use in combination with semi-parallel ignitors or series ignitors
- Winding temperature Tw=140°C
- Narrow cross-section is ideal for pole mounting situation
- Screw terminal blocks
- Copper windings
- Winding temperature Tw=140°



Basic, copper windings, A2 class

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequ-ency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Weight [kg]	Capacitor [µF]	Dimensions [mm]					
										A1	A2	B1	B2	C1	D1
BSN 1000 K300-A2-I 220V 50Hz	1010 109 21246	1000	220	50	SON/MHN-LA	10.30	80	9.50	100uF 280V	285	268	97	78	83	6.2
BSN 1000 K301-A2-I 220V 60Hz	1010 109 25146	1000	220	60	SON/MHN-LA	10.30	85	8.50	100uF 280V	225	208	97	78	83	6.2
BSN 1000 K302-A2-I 230V 50Hz	1010 109 21346	1000	230	50	SON/MHN-LA	10.30	75	11.00	100uF 280V	285	268	97	78	83	6.2
BSN 1000 K304-A2-I 240V 50Hz	1010 109 21446	1000	240	50	SON/MHN-LA	10.30/10.60/9.30	75	11.00	100uF 280V	285	268	97	78	83	6.2
BSN 1000 K309-A2-ITS 400V 50Hz	1010 109 27946	1000	400	50	SON	5.00	70	9.00	28uF 250V	225	172	97	78	83	6.2
BHL 1000 K200-A2 220V 50Hz	1010 109 20446	1000	220	50	HPL/HPI	7.50/8.25	80/85	6.70	60/65uF 250V	193	172	97	78	83	6.2
BHL 1000 K202-A2 230V 50Hz	1010 109 21746	1000	230	50	HPL/HPI	7.50/8.25	70	8.50	60/65uF 250V	225	208	97	78	83	6.2

- Basic ballasts for use with high power lamps
- A2 energy efficiency index
- For use in combination in series, semi-parallel (1000W), or parallel ignitor (HPI lamps)
- Winding temperature Tw=140°C
- Impregnated electromagnetic ballast
- Screw terminal blocks
- Aluminium windings
- Winding temperature Tw=140°



Basic, aluminium windings, A2 class

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequ-ency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Weight [kg]	Capacitor [µF]	Dimensions [mm]					
										A1	A2	B1	B2	C1	D1
BSN 1000 L201-A2-A 220V 60Hz	9137 007 50646	1000	220	60	SON/MHN-LA	9.30/10.00/ 10.30/10.60	75	10.00	100uF 280V	228	204	126	106	112	7
BSN 1000 L307-A2-A 230/240V 50Hz	9137 002 75446	1000	230/240	50	SON/MHN-LA	9.30/10.00/ 10.30/10.60	70	10.30	100uF 280V	228	204	126	106	112	7
BSN 1000 L407-I-A2-A 230/240V 50Hz	9137 002 98646	1000	230/240	50	SON/MHN-LA	9.30/10.00/ 10.30/10.60	85	10.00	100uF 280V	228	204	126	106	112	7
BHL 1000 L201-A2-A 220V 60Hz	9137 007 50846	1000	220	60	HPL/HPI	7.50/8.25	75	7.65	60uF 250V	228	204	126	106	112	7
BHL 1000 L307-A2-A 230/240V 50Hz	9137 002 98546	1000	230/240	50	HPL/HPI	7.50/8.25	75	7.65	60uF 250V	228	204	126	106	112	7
BMH 2000 L5018-A2-A 380/400/415V 50Hz	9137 002 75346	2000	380/400/415	50	MHN-LA/FC/SA/ SB/SE	9.60/10.00/10.30/ 11.30/11.50	60/80	17.75	60uF 450V	317	292	126	106	112	7
BMH 2000 L5019-A2-A LA/FC 360/380/400/415V 50Hz	9137 002 98246	2000	360/380/400/ 415	50	MHN-LA/FC	9.60/10.00/10.30	85	16.00	60uF 450V	317	292	126	106	112	7
BMH 2000 L5030-A2-A 380/400/415V 60Hz	9137 002 98346	2000	380/400/415	60	MHN-LA/SA/SB/FC	9.60/10.00/10.30/ 11.30/11.60	60/80	17.75	60uF 450V	317	292	126	106	112	7
BHL 2000 L4018-A2-A 380/400/415V 50Hz	9137 002 98446	2000	380/400/415	50	HPI	8.60/9.10	80	13.70	40uF 450V	277	244	126	106	112	7
BHL 2000 L4030-A2-A 380/400/415V 60Hz	9137 007 51046	2000	380/400/415	60	HPI	8.60/9.10	80	13.70	40uF 450V	277	244	126	106	112	7

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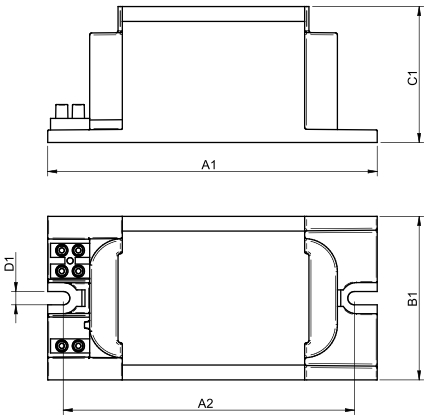
Basic and Heavy Duty ballasts for low pressure sodium lamps

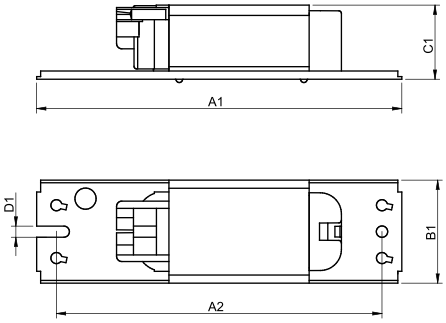
- Impregnated or encapsulated electromagnetic ballasts
- Screw terminal blocks
- For use in combination with Philips SX 26 or SX 76 parallel ignitors

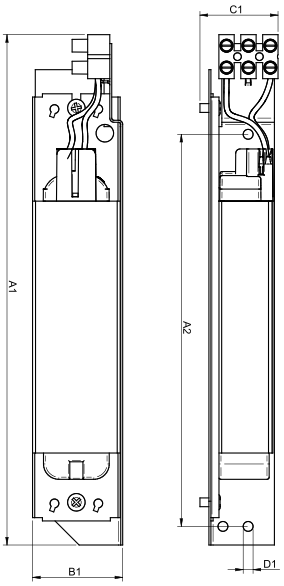
BSX 35 L40, BSX 90 L40

BSX 18 L82, BSX 26 L81, BSX 26 L82

BSX 26 L82 240V 50Hz WITH BRACKET







Basic and Heavy Duty ballasts for low pressure sodium lamps

Product name	Ordering code	Power [W]	Mains voltage [V]	Mains frequency [Hz]	Lamps	Lamp current [A]	Delta T [°C]	Thermal protection	Tw [°C]	Weight [kg]	Capacitor [µF]	Dimensions [mm]				
												A1	A2	B1	C1	D1
BSX 18 L82 240V 50Hz BC0-155	9137 002 00746	18	240	50	SOX	0.35	60	no	133	0.55	4.50	155	140	39	28	4.2
BSX 26 L81 230V 50Hz BC0-196	9137 002 00546	26	230	50	SOX	0.45	55	no	130	0.77	4.50	195	180	39	28	4.2
BSX 26 L82 240V 50Hz BC0-196	9137 002 00846	26	240	50	SOX	0.45	55	no	130	0.77	4.50	195	180	39	28	4.2
BSX 26 L82 240V 50Hz WITH BRACKET	9137 002 79846	26	240	50	SOX	0.45	55	no	130	0.89	4.50	233	179	41	37	4.2
BSX 35 L40 230V 50Hz HD1-118	9136 537 30446	35	230	50	SOX	0.80	55	no	130	0.90	8.00	118	103	65	53	6.2
BSX 90 L40 230V 50Hz HD1-118	9136 500 80446	90	230	50	SOX	0.94	65	no	130	1.26	10.00	118	103	65	53	6.2

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Ignitors for high intensity discharge lamps

Digital ignitors main features:

- Long life performance
- Lamp state check
- Lamp end-of-life recognition
- Automatic switch off
- Automatic counter reset
- Strongly recommended for use with MH lamps due to the end of life effects

Semi-parallel ignitors

- Compact dimensions
- Operating with wide range of lamps 35-1800 W
- Available in digital and analog version
- To be used only with semi-parallel ballasts
- Available with screw and click mounting
- Screw terminal blocks

Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
SK 578 220-240V 50/60Hz	1010 111 10146	35 ... 1000	SON/MH	220-240	50/60	1.80	5.00	90	-30 ... +85	10*	Plastic click	64	57	40	28
SK 578-S 220-240V 50/60Hz	1010 111 10246	35 ... 1000	SON/MH	220-240	50/60	1.80	5.00	90	-30 ... +85	10*	Plastic screw	68	58	40	28
SK 578 Digital 220-240V 50/60Hz	1010 111 10346	35 ... 1000	SON/MH	220-240	50/60	1.80	5.00	90	-30 ... +85	10*	Plastic click	64	57	40	28
SK 578-S Digital 220-240V 50/60Hz	1010 111 10446	35 ... 1000	SON/MH	220-240	50/60	1.80	5.00	90	-35 ... +85	10*	Plastic screw	68	58	40	28
SN 56 220-240V 50/60Hz	1010 111 11446	1000 ... 1800	SON/MH	220-240	50/60	2.80	5.00	70	-20 ... +50	100*	Plastic click	113	106	40	35
SN 56-S 220-240V 50/60Hz	1010 111 11746	1000 ... 1800	SON/MH	220-240	50/60	2.80	5.00	70	-20 ... +50	100*	Plastic screw	117	106	40	35
SN 59 220-240V 50/60Hz	1010 111 11546	1000 ... 1800	SON/MH	220-240	50/60	2.80	5.00	70	-20 ... +50	40*	Plastic click	113	106	40	35
SN 59-S 220-240V 50/60Hz	1010 111 11846	1000 ... 1800	SON/MH	220-240	50/60	2.80	5.00	70	-20 ... +50	40*	Plastic screw	117	106	40	35

*with typical cable of 100pF per meter

Semi-parallel horti ignitors

- Compact dimensions
- Operating with 600W SON Green Power lamps
- Available in digital and analog versions
- To be used only with semi-parallel ballasts
- Available with click mounting
- Screw terminal blocks

Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
SK 97 380-400V 50/60Hz	1010 111 10646	600	SON Green Power	380-400	50/60	3.70	5.00	90	-30 ... +85	10*	Plastic click	84	77	40	35
SK 97-S 380-400V 50/60Hz	1010 111 11046	600	SON Green Power	380-400	50/60	3.70	5.00	90	-30 ... +85	10*	Plastic screw	88	78	40	35
SK 98 Digital 380-480V 50/60Hz	1010 111 10746	600	SON Green Power	380-400	50/60	3.70	5.00	90	-30 ... +85	10*	Plastic click	88	78	40	35
SK 98-S Digital 380-480V 50/60Hz	1010 111 11146	600	SON Green Power	380-480	50/60	3.70	5.00	90	-30 ... +85	10*	Plastic screw	113	106	40	35

*with typical cable of 100pF per meter

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Ignitors for high intensity discharge lamps

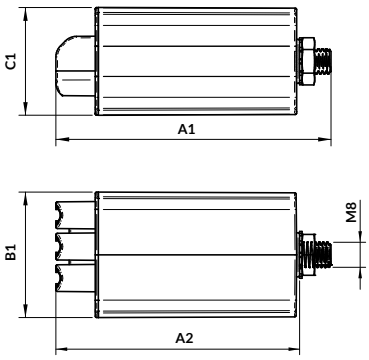
Parallel ignitors

- Compact dimensions
- Operating with 250, 400 and 2000W HPI lamp
- To be used only with parallel ballasts
- Available with screw and click mounting
- Screw terminal blocks

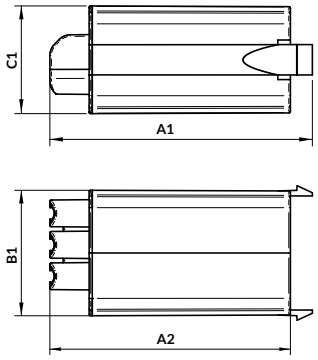
Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
SI 51 220-240V 50/60Hz	1010 111 10846	250 ... 400	HPI	220-240	50/60	0.58	0.75	85	-20 ... +75	1500*	Plastic click	84	77	40	35
SI 51-S 220-240V 50/60Hz	1010 111 10946	250 ... 400	HPI	220-240	50/60	0.58	0.75	85	-20 ... +75	1500*	Plastic screw	88	78	40	35
SI 52 220-240V 50/60Hz	1010 111 11246	1000 ... 2000	HPI	220-240	50/60	0.58	0.75	85	-20 ... +75	350*	Plastic click	84	77	40	35
SI 52-S 220-240V 50/60Hz	1010 111 11346	1000 ... 2000	HPI	220-240	50/60	0.58	0.75	85	-20 ... +75	350*	Plastic screw	88	78	40	35
SI 54 380-440V 50/60Hz	1010 111 11646	2000	HPI	380-440	50/60	0.90	1.50	75	-20 ... +65	1200*	Plastic click	113	106	40	35
SI 54-S 380-440V 50/60Hz	1010 111 11946	2000	HPI	380-440	50/60	0.90	1.50	75	-20 ... +65	1200*	Plastic screw	117	106	40	35

*with typical cable of 100pF per meter

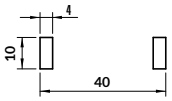
PLASTIC SCREW HOUSING



PLASTIC CLICK HOUSING



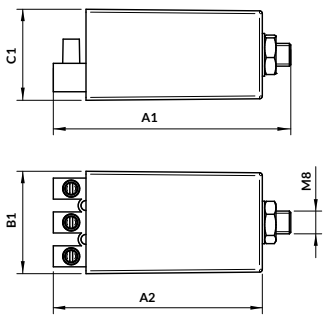
Mounting holes for click version



Parallel ignitors BAG

- Screw terminal block
- Compact dimensions
- To be used with parallel ballast
- Operating with 250, 400 and 1000W HPI lamps

PLASTIC SCREW HOUSING



Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
NP 603	8028 111 11746	250 ... 1000	HPI-T	220-240	50/60	0.70	1.00	105	-30 ... +85	100*	Plastic screw	55	40	30	21.6

*with typical cable of 100pF per meter

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Ignitors for high intensity discharge lamps

Series ignitors

- Compact dimensions
- Available in digital and analog versions
- To be used with series or semi-parallel ballasts
- Available with screw mounting
- Screw terminal block

Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
SU 10-S 220-240V 50/60Hz	8010 111 10646	50 ... 70	SON	220-240	50/60	1.90	2.30	105	-30 ... +90	2*	Plastic screw	84	74	36	32
SUD 10-S 220-240V 50/60Hz	8010 111 10046	50 ... 70	SON	220-240	50/60	1.90	2.30	105	-20 ... +90	2*	Plastic screw	84	74	36	32
SU 38-S 220-240V 50/60Hz	8010 111 10246	35 ... 400	SON/ MH	220-240	50/60	4.00	5.00	105	-30 ... +70	2*	Plastic screw	84	74	36	32
SUD 40-S 220-240V 50/60Hz	8010 111 10146	35 ... 400	SON/ MH	220-240	50/60	4.00	5.00	105	-30 ... +70	1*	Plastic screw	84	74	36	32
NI 1000 LE 220-240V 50/60Hz	1010 111 12046	400 ... 1000	SON/ MH	220-240	50/60	3.50	5.00	85	-30 ... +55	1*	Plastic screw	97	87	48	38
MZN 1000 S 220-240V 50/60Hz	1010 111 12246	400 ... 1000	SON/ MH	220-240	50/60	3.50	5.00	85	-30 ... +55	1*	Aluminium screw	93	83	51	51
380 MZN 2000 S 380-415V 50/60Hz	1010 111 12146	1000 ... 2000	SON/ MH	380-415	50/60	4.00	5.00	90	-30 ... +45	2*	Aluminium screw	93	83	51	51

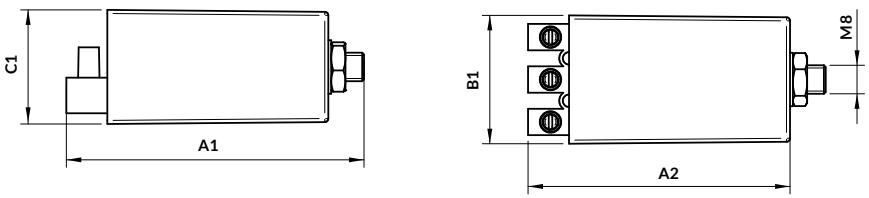
Series ignitors BAG

- Compact dimensions
- Available in digital and analog versions
- To be used with series ballasts
- Screw terminal block

Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
NI 70 S 4K	8028 111 11146	50 ... 70	HS/HI-CE	220-240	50/60	1.90	2.50	105	-30 ... +90	2*	Plastic screw	78	62	36	32
NI 70 S 4K-TU	8028 111 10646	35 ... 70	HI	220-240	50/60	1.90	2.50	105	-30 ... +90	2*	Plastic screw	78	62	36	32
MZN 400 SU	8028 111 10946	70 ... 400	HI/HS	220-240	50/60	4.00	5.00	105	-30 ... +85	1*	Aluminium screw	97	72	51	51
NI 400 LE 4K	8028 111 10446	35 ... 400	HS/HST-DE/HI/HI-CE	220-240	50/60	3.50	5.00	105	-30 ... +70	1*	Plastic screw	78	62	36	32
NI 400 LE 4K-TU	8028 111 11046	70 ... 400	HI/HS/HST	220-240	50/60	3.50	5.00	105	-30 ... +95	1*	Plastic screw	78	62	36	32
MZN 400 S-TU	8028 111 10746	70 ... 400	HI/HS/HST-DE/HI-CE	220-240	50/60	3.50	5.00	105	-30 ... +70	1*	Aluminium screw	88	62	45	45
NI 200 S 4K	8028 111 10546	70 ... 200	HS/MSD/HSD/MSR/ MT	220-240	50/60	1.90	2.50	105	-30 ... +75	2*	Plastic screw	78	62	36	32
MZN 1000/2000	8028 111 10246	400 ... 1000	HS/HI	220-240	50/60	3.00	5.00	95	-30 ... +60	20*	Aluminium screw	100	75	61	61

*with typical cable of 100pF per meter

PLASTIC / ALUMINIUM SCREW HOUSING



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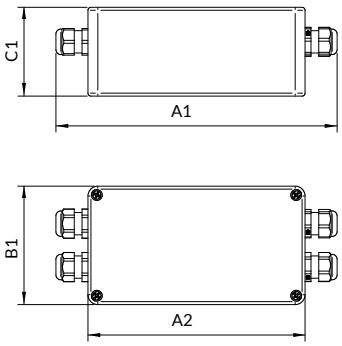
Hot restrike ignitor BAG

- Fully electronic ignitor with inteligent ignition managment
- Instant start of hot and cold lamp
- Automatic switch-off in case of abnormal lamp operation, or end-of-life of lamp
- Individual adaptation of the ignition parameters
- Symetric ignition on both leads

PLASTIC SCREW HOUSING

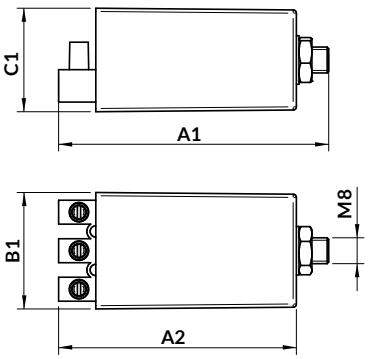


Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Ignition voltage [kV]		Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
						min	max					A1	A2	B1	C1
230/480 ZIR 2000 AS 2L	8028 111 10846	250 ... 2000	HIT/HST/HCI /HQI/MHN	230-480	50/60	25.00	40.00	80	-30 ... +50	0.3*	Plastic screw	290	220	120	92

Power switch for high intensity discharge lamps - HID power reduction

- Switch-over to reduce power operation without applying control voltage (acc. to minutes time delay)
- System works for 5 minutes of full load operation after start, independent of the applied control signal
- System switch-over to full power when applying control voltage (after delay time)
- Maximum switching lamp power: 600W for HID sodium lamp, and 700W for HID mercury lamp
- Maximum switching lamp current: 8A

PLASTIC SCREW HOUSING



Plastic screw housing

Product name	Ordering code	Power [W]	Lamps	Mains voltage [V]	Mains frequency [Hz]	Tc [°C]	Ta [°C]	Cable length [m]	Housing	Dimensions [mm]			
										A1	A2	B1	C1
NPV 700-TM05	8028 111 12046	50 ... 700	HS/HM	220-240	50/60	80	-30 ... +80	0,3*	Plastic screw	74	62	36	32

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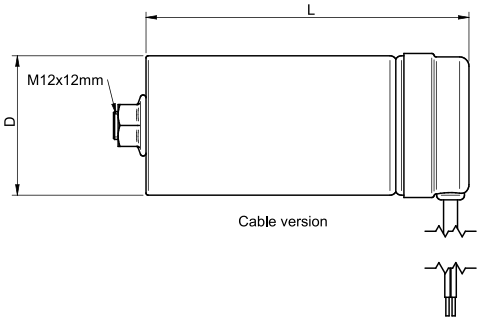
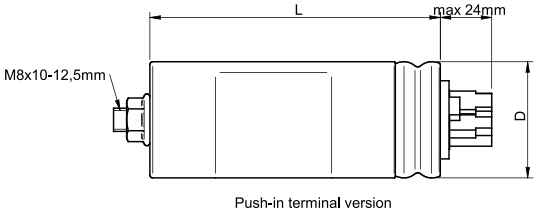
Capacitors

Main characteristics:

- Type B, aluminium housing
- Low inductance
- Push-in terminal (Wago 214 terminal) or cable (2x0,75mm²)
- Self-healing ability
- Overpressure safety break-action mechanism
- Discharge resistor
- Requirement a clearance of at least 10mm above the terminals to ensure proper activation break action mechanism





Technical data:	
Parameter	Value
Tolerance of capacitance	±5%
Rated frequency	50/60Hz
Relative humidity in capacitor environment at 20÷25°C	75% (annual average) 95% (max value within 30 days)
Service life	30000h
Condensation	Not permitted
Dissipation factor (tgd)	≤ 0,0015 at 50Hz/250V
Dielectric strength:	
between terminals	2U_N/50Hz - 2sec.
between terminals connected together and cas	2kV / 50Hz - 2sec

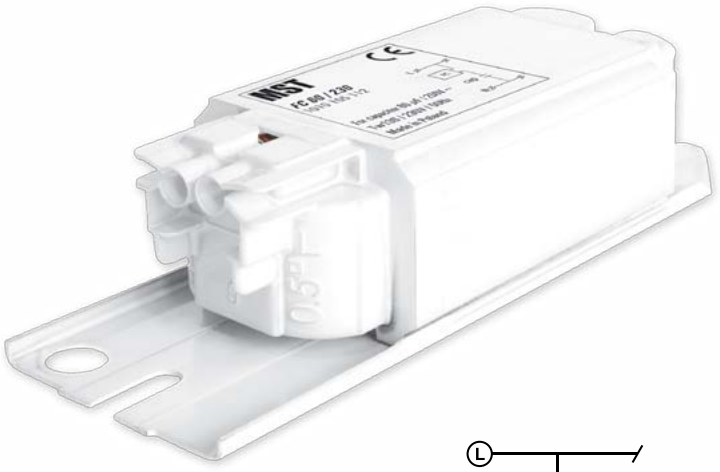
Product name	Ordering code	Capacitor [uF]	Mains voltage [V]	Ambient temp. [°C]	Terminal	Diameter D [mm]	Length L [mm]
CAP 4.5µF 250V MST I60	4010 401 13410	4.50	250	-40 ... +100	Push-in	25	62
CAP 6.5µF 250V MST I60	4010 401 13510	6.50	250	-40 ... +100	Push-in	25	60
CAP 8µF 250V MST I60	4010 401 13610	8.00	250	-40 ... +100	Push-in	25	74
CAP 9µF 250V MST I60	4010 401 13710	9.00	250	-40 ...+100	Push-in	30	62
CAP 10µF 250V MST I60	4010 401 12810	10.00	250	-40 ...+100	Push-in	30	74
CAP 12µF 250V MST I60	4010 401 12910	12.00	250	-40 ... +100	Push-in	30	74
CAP 12.5µF 250V MST I60	4010 401 13810	12.50	250	-40 ... +100	Push-in	30	74
CAP 14µF 250V MST I60	4010 401 13910	14.00	250	-40 ... +100	Push-in	30	74
CAP 16µF 250V MST I60	4010 401 14010	16.00	250	-40 ... +100	Push-in	30	87
CAP 18µF 250V MST I60	4010 401 13010	18.00	250	-40 ... +100	Push-in	40	74
CAP 20µF 250V MST I60	4010 401 13110	20.00	250	-40 ... +100	Push-in	40	74
CAP 25µF 250V MST I60	4010 401 13210	25.00	250	-40 ... +100	Push-in	40	74
CAP 32µF 250V MST I60	4010 401 10311	32.00	250	-40 ... +100	Push-in	40	87
CAP 45µF 250V MST I60	4010 401 10411	45.00	250	-40 ... +100	Push-in	40	100
CAP 50µF 250V MST I60	4010 401 14410	50.00	250	-40 ... +100	Push-in	45	100
CAP 60µF 250V MST I60	4010 401 10511	60.00	250	-40 ... +100	Push-in	45	100
CAP 100µF 280V MST 025	4010 401 11610	100.00	280	-40 ... +85	Cable	60	140
CAP 20µF 450V MST 025	4010 401 11711	20.00	450	-40 ... +85	Push-in	40	87
CAP 22.5µF 450V MST 25	4010 401 14310	22.50	450	-40 ... +85	Push-in	45	87
CAP 25µF 450V MST 025	4010 401 14210	25.00	450	-40 ... +85	Push-in	45	87
CAP 28uF 450V MST 025	4010 401 10610	28.00	450	-40 ... +85	Push-in	45	87
CAP 40µF 450V MST 025	4010 401 11410	40.00	450	-40 ... +85	Cable	60	90
CAP 60µF 450V MST 025	4010 401 11510	60.00	450	-40 ... +85	Cable	60	140
CAP 15uF 480V MST 025	4010 401 12...	15.00	480	-40 ... +85	Push-in	45	74

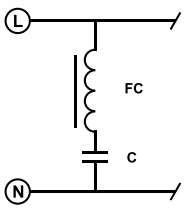
Filter coils

Coils for filtering signals for power factor capacitors. The coil reactance is chosen as to balance out the reactance of the capacitor and is effective to work with audio signals of 300Hz and higher.

The type of filter coil needed depends on the value of the capacitor used.

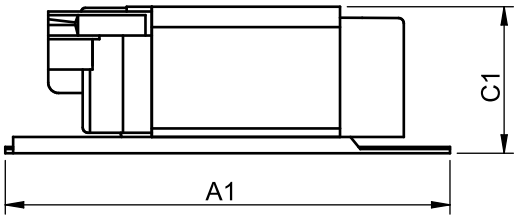
The value of filter coil is printed as the value of capacitor with which this coil should be connected in series. For example in the FC 10/230, suitable capacitor is 10uF and 230V.

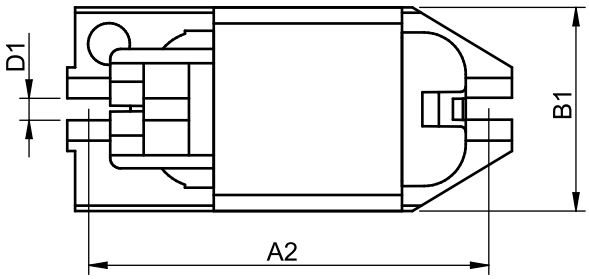




Main characteristic:

- For use in series with power factor correction capacitors
- Small, compact and light weight design
- Low energy losses and therefore low delta T
- Push-in terminals enabling easy connection





Product name	Ordering code	Capacitor [µF/V]	Dimensions [mm]				
			A1	A2	B1	C1	D1
FC 08/230	1010 105 10246	8uF/250V	85	75	39	28	4.2
FC 12/230	1010 105 10446	12uF/250V	85	75	39	28	4.2
FC 20/230	1010 105 10746	20uF/250V	85	75	39	28	4.2
FC 32/230	1010 105 10946	32uF/250V	85	75	39	28	4.2
FC 45/230	1010 105 11146	45uF/250V	130	109	39	28	4.2
FC 60/230	1010 105 11246	60uF/250V	130	109	39	28	4.2
FC 20/400	1010 105 11446	20uF/450V	130	109	39	28	4.2

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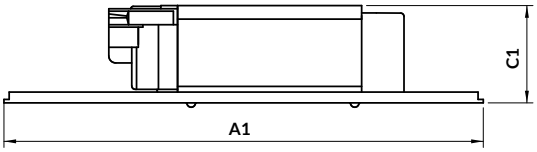
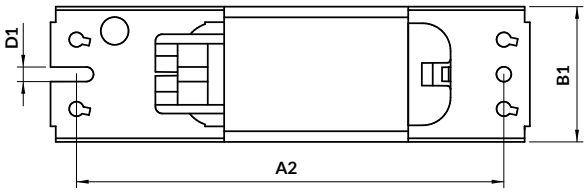
Ballasts for standard fluorescent lamps

- Reliable electrical and mechanical performance
- Long life
- Compact dimensions
- Impregnated with polyester lacquer
- Optimum lamp performance under optimum temperature conditions
- Quick and easy wiring
- Copper or aluminium windings





220V, 50Hz, copper windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 18W 220V C	9130 154 30346	C	0.37	130	65/100	0.48	155	140	39	28	4.2
BTA 36W 220V C	9137 002 02846	C	0.43	130	65	0.47	155	140	39	28	4.2
BTA 36W 220V	9137 002 76746	C	0.39	130	70/175	0.46	155	140	39	28	4.2
BTA 58W 220V C	9137 002 65746	C	0.67	130	55/125	0.78	195	180	39	28	4.2

220V, 50Hz, aluminium windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 18W 220V C A SI	9137 002 84846	C	0.37	140	65/105	0.58	155	140	39	28	4.2
BTA 2x18W 220V C A SI	9137 002 85446	C	0.37	140	65	0.53	155	140	39	28	4.2
BTA 36W 220V C A SI	9137 002 85346	C	0.37	140	60/175	0.58	155	140	39	28	4.2
BTA 36W 220V C A LC SI	9137 002 84746	C	0.43	140	50	0.55	155	140	39	28	4.2

230V, 50Hz, copper windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 15W 230V B2	9130 121 20446	B2	0.31	130	55/95	0.48	155	140	39	28	4.2
BTA 18W 230V B2	9137 002 73546	B2	0.37	130	50/90	0.55	155	140	39	28	4.2
BTA 18W 230V C	9130 154 30446	C	0.37	130	65/110	0.48	155	140	39	28	4.2
BTA 2x18W 230V B1	9137 002 74746	B1	0.37	130	65/130	0.48	155	140	39	28	4.2
BTA 30W 230V B2	9137 002 74046	B2	0.36	130	55/115	0.55	155	140	39	28	4.2
BTA 30W 230V C	9130 241 20446	C	0.36	130	60/145	0.48	155	140	39	28	4.2
BTA 36W 230V B1	9130 321 20446	B1	0.43	130	35/95	0.78	195	180	39	28	4.2
BTA 36W 230V B2	9137 002 73946	B2	0.43	130	55/160	0.55	155	140	39	28	4.2
BTA 36W 230V C	9137 002 73846	C	0.43	130	50/125	0.55	155	140	39	28	4.2
BTA 36W 230V C65	9137 002 73746	C	0.43	130	65/155	0.55	155	140	39	28	4.2
BTA 58W 230V B2	9130 370 30446	B2	0.67	130	50/125	0.94	195	180	39	28	4.2
BTA 58W 230V C	9137 002 51546	C	0.67	130	55/125	0.77	195	180	39	28	4.2

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Ballasts for standard fluorescent lamps

230V, 50Hz, aluminium windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 18W 230V B2 A SI	9137 002 74846	B2	0.37	140	45/80	0.68	155	140	39	28	4.2
BTA 18W 230V C A SI	1010 102 10746	C	0.37	140	60/110	0.57	155	140	39	28	4.2
BTA 2x18W 230V B1 A SI	9137 002 85246	B1	0.37	140	60/125	0.58	155	140	39	28	4.2
BTA 30W 230V B2 A SI	1010 102 10546	B2	0.36	140	55/135	0.58	155	140	39	28	4.2
BTA 36W 230V B2 A SI	9137 002 85146	B2	0.43	140	45/150	0.68	155	140	39	28	4.2
BTA 36W 230V C A SI	1010 102 10446	C	0.37	140	50/175	0.56	155	140	39	28	4.2

240V, 50Hz, copper windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 18W 240V B2	9137 002 71846	B2	0.37	130	50/95	0.55	155	140	39	28	4.2
BTA 36W 240V B2	9137 002 71946	B2	0.43	130	40/105	0.78	195	180	39	28	4.2
BTA 58W 240V B2	9130 370 30546	B2	0.67	130	50/140	0.94	195	180	39	28	4.2

240V, 50Hz, aluminium windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 18W 240V B2 A SI	9137 002 90946	B2	0.37	140	55/95	0.68	155	140	39	28	4.2
BTA 2x18W 240V B1 A SI	9137 002 88846	B1	0.37	140	60/125	0.58	155	140	39	28	4.2
BTA 2x18W 240V C A SI	1010 102 10646	C	0.37	140	55	0.53	155	140	39	28	4.2
BTA 36W 240V B2 A SI	9137 002 91046	B2	0.43	140	55/165	0.68	155	140	39	28	4.2

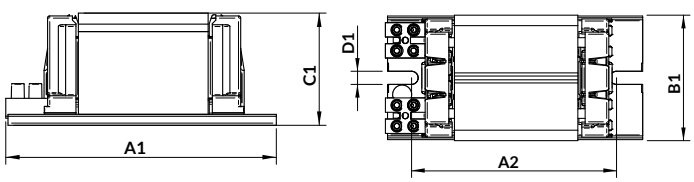
220V, 60Hz, aluminium windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 18W 220V 60Hz C A SI	2030 102 10741	C	0.37	140	65	0.42	155	140	39	28	4.2
BTA 2x18W 220V 60Hz C A SI	2030 102 10641	C	0.37	140	60	0.42	155	140	39	28	4.2
BTA 36W 220V 60Hz C A SI	1010 102 11141	C	0.43	140	60/175	0.58	155	140	39	28	4.2

Ballasts for standard fluorescent lamps, A2 class

Product description

- Reliable electrical and mechanical performance
- Long life-time
- Optimum lamp performance under optimum temperature conditions

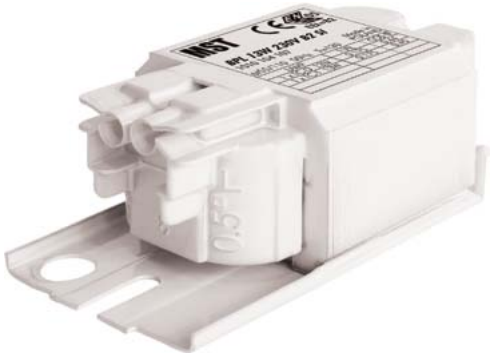


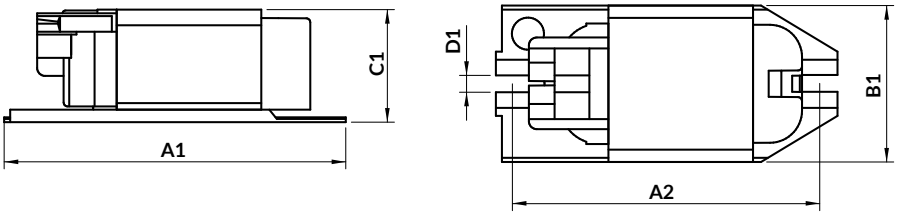
230V, 50Hz, copper windings, A2 class

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BTA 2x18W 230V A2 BC1-111	1010 122 10146	A2	0.37	130	20/40	1.24	111	94	61	52	6.2
BTA 36W 230V A2 BC1-111	1010 122 10246	A2	0.43/37	130	25/45	1.27	111	94	61	52	6.2
BTA 58W 230V A2 BC1-123	1010 122 10346	A2	0.67	130	30/70	1.39	123	61	52	6.2	4.2

Ballasts for compact fluorescent lamps

- Reliable electrical and mechanical performance
- Long life
- Compact dimensions
- Impregnated with polyester lacquer
- Quick and easy wiring
- Optimum lamp performance under optimum temperature conditions





220V, 50Hz, copper windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BPL 8W 220V B2 SI	1010 104 10046	B2	0.15	130	50/85	0.31	85	77	39	28	4.2
BPL 11W 220V B2 SI	1010 104 10346	B2	0.16	130	55/80	0.31	85	77	39	28	4.2
BPL 13W 220V B2 SI	1010 104 10646	B2	0.18	130	55/105	0.31	85	77	39	28	4.2
BPL 18W 220V B2 SI	1010 104 10946	B2	0.23	130	60/130	0.31	85	77	39	28	4.2
BPL 26W 220V B2 SI	1010 104 11246	B2	0.33	130	55/130	0.45	110	96	39	28	4.2

230V, 50Hz, copper windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BPL 8W 230V B2 SI	1010 104 10146	B2	0.15	130	50/85	0.31	85	77	39	28	4.2
BPL 11W 230V B2 SI	1010 104 10446	B2	0.16	130	55/85	0.31	85	77	39	28	4.2
BPL 13W 230V B2 SI	1010 104 10746	B2	0.18	130	55/110	0.31	85	77	39	28	4.2
BPL 18W 230V B2 SI	1010 104 11046	B2	0.23	130	60/140	0.31	85	77	39	28	4.2
BPL 26W 230V B2 SI	1010 104 11346	B2	0.33	130	55/145	0.45	110	96	39	28	4.2

240V, 50Hz, copper windings

Product name	Ordering code	EEI	Lamp current [A]	Tw [°C]	Delta T / Delta T abn. [°C]	Weight [kg]	Dimensions [mm]				
							A1	A2	B1	C1	D1
BPL 8W 240V B2 SI	1010 104 10246	B2	0.15	130	50/85	0.31	85	77	39	28	4.2
BPL 11W 240V B2 SI	1010 104 10546	B2	0.16	130	55/95	0.31	85	77	39	28	4.2
BPL 13W 240V B2 SI	1010 104 10846	B2	0.18	130	55/110	0.31	85	77	39	28	4.2
BPL 18W 240V B2 SI	1010 104 11146	B2	0.23	130	65/145	0.31	85	77	39	28	4.2
BPL 26W 240V B2 SI	1010 104 11446	B2	0.33	130	55/160	0.45	110	96	39	28	4.2

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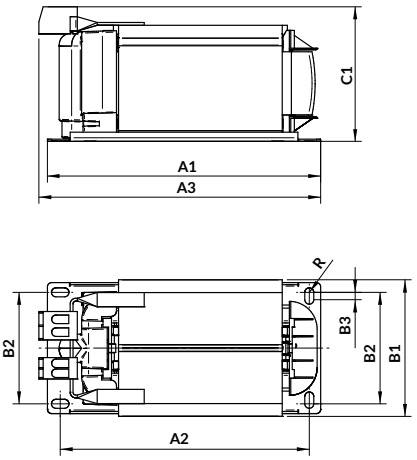
Compensation coils

Product description:

- Intended to consume capacitive VArs
- Product according to EN/IEC 60076-6
- Thermal protection integrated
- Additional ratings on request
- Copper windings
- Ambient temperature 40°C
- 3 phase reactor possible - star connection



Product name	Ordering code	Reactive power [kVar]	Inductance [mH]	Current [A]	Weight [kg]	Dimensions [mm]								Losses [W]	Insulation class
						A1	A2	A3	B1	B2	B3	C1	R1		
CEKO 1f/0,1/230 TS	1010 116 13442	0.10	1684	0.43	3.70	142	121	-	96	78	6	82	3	8.00	B
CEKO 1f/0,167/230	1010 116 13842	0.17	1008	0.73	1.30	118	93	118	61	-	6,3	52	3.15	11.40	B
CEKO 1f/0,2/230 TS	1010 116 13042	0.20	842	0.87	3.70	142	121	-	96	78	6	82	3	10.00	B
CEKO 1f/0,2/230	1010 116 14242	0.20	842	0.87	1.80	126	104	126	76	-	6.3	65	3.15	11.30	B
CEKO 1f/0,233/230	1010 116 14342	0.23	724	1.00	1.80	126	104	126	76	-	6.3	65	3.15	13.10	B
CEKO 1f/0,25/230 TS	1010 116 10142	0.25	673	1.09	3.70	142	121	-	96	78	6	82	3	11.00	B
CEKO 1f/0,267/230	1010 116 14442	0.27	631	1.16	2.25	133	111,5	133	76	-	6.3	65	3.15	13.70	B
CEKO 1f/0,3/230 TS	1010 116 10242	0.30	560	1.30	3.80	142	121	-	96	78	6	82	3	14.00	B
CEKO 1f/0,3/230	1010 116 14542	0.30	560	1.30	2.25	133	111,5	133	76	-	6.3	65	3.15	16.50	B
CEKO 1f/0,333/230	1010 116 14642	0.33	506	1.45	2.00	133	111,5	133	76	-	6.3	65	3.15	17.70	B
CEKO 1f/0,367/230	1010 116 14742	0,37	459	1.60	2.80	151	129	151	76	-	6.3	65	3.15	17.90	B
CEKO 1f/0,4/230 TS	1010 116 12642	0.40	421	1.74	4.00	142	121	-	96	78	6	82	3	17.00	B
CEKO 1f/0,433/230	1010 116 14842	0,43	389	1.88	3.20	160	138	160	76	-	6.3	65	3.15	18.90	B
CEKO 1f/0,45/230 TS	1010 116 13542	0.45	374	1.96	4.00	142	121	-	96	78	6	82	3	17.00	B
CEKO 1f/0,5/230 TS	1010 116 10342	0.50	337	2.17	4.00	142	121	-	96	78	6	82	3	22.00	B
CEKO 1f/0,5/230	1010 116 14942	0.50	337	2.17	3.20	160	138	160	76	-	6,3	65	3.15	23.20	B
CEKO 1f/0,55/230 TS	1010 116 13142	0.55	306	2.39	5.30	165	144	-	96	78	6	82	3	22.50	B
CEKO 1f/0,567/230	1010 116 15042	0.57	297	2.46	3.20	160	138	160	76	-	6,3	65	3.15	26.70	B
CEKO 1f/0,6/230 TS	1010 116 10442	0.60	280	2.61	5.30	165	144	-	96	78	6	82	3	23.40	B
CEKO 1f/0,667/230	1010 116 15142	0,67	253	2.90	3.60	142	121	-	96	78	6	82	3	22.00	B
CEKO 1f/0,75/230 TS	1010 116 10542	0.75	225	3.26	5.50	165	144	-	96	78	6	82	3	29.00	B
CEKO 1f/0,833/230 TS	1010 116 15242	0.83	202	3.62	5.50	165	144	-	96	78	6	83	3	30.90	B
CEKO 1f/1/230 TC TS	1010 116 11742	1.00	168	4.35	7.00	192	175	198	96	78	6	97	3	36.00	B
CEKO 1f/1/230 TS	1010 116 10642	1.00	168	4.35	7.00	192	175	-	96	78	6	83	3	36.00	B
CEKO 1f/1,25/230 TC TS	1010 116 12842	1.25	135	5.43	8.50	189	170	189	108	88	6	106	4	42.50	B
CEKO 1f/1,33/230 TC TS	1010 116 11842	1.33	127	5.78	9.50	189	170	192	108	88	6	106	4	46.00	B
CEKO 1f/1,5/230 TC TS	1010 116 11942	1.50	112	6.52	12.00	239	222	236	108	88	6	106	4	58.00	B
CEKO 1f/1,67/230 TC TS	1010 116 13742	1.67	101	7.26	13.00	239	108	88	108	88	6	106	4	65.00	B
CEKO 1f/2/230 TC TS	1010 116 12042	2.00	84	8.70	13.00	239	222	236	108	88	6	106	4	76.00	B
CEKO 1f/2,5/230 TC TS	1010 116 12142	2.50	67.3	10.87	16.50	299	222	298	108	88	6	106	4	92.00	B
CEKO 1f/3/230 TC TS	1010 116 12442	3.00	56.1	13.04	17.00	239	222	212	108	88	6	175	4	119.00	B
CEKO 1f/3,33/230 TC TS	1010 116 12242	3.33	50.6	14.48	19.00	239	222	212	108	88	6	175	4	125.00	B
CEKO 1f/4/230 TC TS	1010 116 12542	4.00	42.1	17.40	23.00	265	252	270	108	88	6	175	4	145.00	B
CEKO 1f/5/230 TC TS	1010 116 12342	5.00	33.68	21.74	27.00	300	282	302	108	88	6	175	4	208.00	B

Technical information

Definitions

1. **ΔT (delta T)** - it is the difference of temperature of the coil windings within an operating electromagnetic ballast compared to when it is in an off status.
2. **ΔTabn (ΔT in abnormal situation)** - it is the increase of winding temperature at 110% mains voltage when the starter is short circuited.
3. **Tw (T windings)** - it is the maximum temperature allowed for the windings in an electromagnetic ballast. When the temperature higher then Tw (130 or 140 degrees, depending on the ballast type), the isolation around the wire can be damaged.
4. **Ta (ambient temperature)** - it is the temperature specified for the product as maximum allowed surrounding temperature in the luminaire. The Ta (ambient temperature) of electromagnetic ballast is therefore approx. Tw-ΔT.
5. **Thermo switch (TS)** - it is for thermal protection against overheating. This prevents the ballast damage when the lamp reaches end of life.
6. **PF (power factor)** - it determines the amount of current that is consumed by a system. When the PF is low the current consumption is high. The PF can be improved by a PF capacitor or reactor (depend on PF character).
7. **Reinforced ballasts (letter R in the naming)** - these ballasts are designed to be used in class II luminaires.
8. **Advantages of semi-parallel systems**
   - Ignitor is not self-heating
   - Ballast generates high-energy ignition pulse that ignites lamps under all conditions
   - Current does not flow through ignitor when lamp is operating therefore lifetime of digital semi-parallel ignitor can reach more than 10 years of operation
   - High-energy ignition pulse, enabling remote gearing
   - Silent system operation
   - Semi-parallel ballasts can be used both with semi-parallel and series ignitors
   - Semi-parallel system has lower energy consumption compared to series one

Features and benefits of aluminium wire

Raw material prices are growing, manufacturers of luminaires are looking for cheaper alternatives to improve their own competitiveness. Alternatives having equal or better performance. Because that MST decided to develop the new product platform based on aluminum wire. Years of experience in this field and positive users feedback unequivocally confirm the correctness of technological solutions adopted in the most critical elements of aluminium wire ballast design. Main facts:

- aluminium wire has the same kind of insulation as copper wire (temperature index 200^{0}C),
- experience with Fluo and HID ballasts with aluminium show that production process (winding etc.) has no negative influence on insulation quality,
- if during ballasts lifetime any insulation damages or cracks will appear, they will be quickly covered by oxide layer – due to this phenomenon overall insulation of aluminium wire is even better than copper wire,
- all ballasts with aluminium wire have Tw=140 (market standard is Tw=130),
- ballasts are tested (acc. IEC 61347) 30 days at 238^{0}C (most of the copper wire ballasts are tested at 222^{0}C)

High intensity discharge lamps naming applied by producers in lighting

	High-pressure sodium vapour lamps	Metal Halide lamps	High-pressure mercury vapour lamps	Low-pressure sodium vapour lamps
MST	SON	MH, HPI	HPL	SOX
BAG	HS	HI, MH	HPI	-
ELT	Na	Hgl	Hg	-
Helvar	HS	HI	HM	-
OSRAM	Vialox NAV, Plantastar-T	Powerball HCI, Powerstar HQI	HQL	SOX
PHILIPS	SON	MHN, CDM, CDO, HPI	HPL	SOX
Tridonic	HS	HI	HM	-
Venture	HPS	MH	Mercury lamps	SOX
VosslohSchwabe	HS	HI	HM	-
Electrostart	HSI	MHI	MVI	-

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Cross reference table - lamp, ballast, ignitor and capacitor combination

Lamp type	Mains	Lamp power	Ballast type	SK 578 (-S)	SK 578 (-S) Digital	SU 10-S / NI 70 S 4K-TU	SUD 10-S / NI 70 S 4K-TU	SUD 40-S / NI 400 LE 4K (-TU) / MZN 400 S-TU	SU 38-S / NI 400 LE 4K (-TU) / MZN 400 S-TU	NI 1000 LE / MZN 1000 S	380 MZN 2000 S	SK 98 Digital	SK 97	SI 51 (-S)	SI 52 (-S)	SI 54 (-S)	NP 603	SN 56 (-S)	SN 59 (-S)	Philips SN(D) 57	Philips SN(D) 58	Philips SX 26	Philips SX 76	Capacitor
SON	220 - 240V 50/60Hz	50W	Basic	x	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10uF/250V
			Dual wattage	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	
		70W	Basic	x	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12uF/250V
			Dual wattage	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	
			Reinforced	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		100W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12uF/250V
			Dual wattage	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		150W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18uF/250V
			Dual wattage	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		250W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32uF/250V
			Dual wattage	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		400W	Basic	x	x	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	45uF/250V
			Dual wattage	-	-	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	
		600W	Basic	x	x	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-	60uF/250V
		1000W	Basic aluminium	-	-	-	-	-	-	x	-	-	-	-	-	-	-	x	x	-	-	-	-	100uF/250V
			Basic copper	x	x	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	-	-	-	-	x	-	-	-	-	-	-	-	x	x	-	-	-	-	
SON Horti	220 - 240V 50/60Hz	250W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32uF/250V
		400W		x	x	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	45uF/250V
		600W		x	x	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-	60uF/250V
	380 - 400V 50Hz	600W		-	-	-	-	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	22,5uF/450V
	480V 60Hz	600W		-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	15uF/480V
MH	220 - 240V 50/60Hz	35W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6uF/250V
		50W	Basic	x	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10uF/250V
			Heavy Duty	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	
		70W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12uF/250V
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		100W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12uF/250V
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		150W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18uF/250V
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		250W	Basic	x	x	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32uF/250V
			Heavy Duty	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		400W	Basic	x	x	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	45uF/250V
			Heavy Duty	-	-	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	x	-	-	
			Reinforced	-	-	-	-	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-	-	
		1000W	Basic aluminium	-	-	-	-	-	-	x	-	-	-	-	-	-	-	x	x	-	-	-	-	100uF/250V
			Basic copper	x	x	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Heavy Duty	-	-	-	-	-	-	x	-	-	-	-	-	-	-	x	x	-	-	-	-	
MH	360 - 430V 50/60Hz	2000W	Basic	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	60uF/450V
			Heavy Duty	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	
HPI	220 - 240V 50/60Hz	250W	Basic	-	-	-	-	-	-	-	-	-	-	x	-	-	x	-	-	-	-	-	-	18uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	x	-	-	x	-	-	-	-	-	-	
		400W	Basic	-	-	-	-	-	-	-	-	-	-	x	-	-	x	-	-	-	-	-	-	25uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	x	-	-	x	-	-	-	-	-	-	
		1000W	Basic	-	-	-	-	-	-	-	-	-	-	-	x	-	x	-	-	-	-	-	-	60uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	x	-	x	-	-	-	-	-	-	
		2000W	Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-	145uF/250V
HPI	360 - 415V 50/60Hz	2000W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	40uF/450V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	
HPL	220 - 240V 50/60Hz	50W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7uF/250V
		80W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		125W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		250W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		400W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		1000W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60uF/250V
			Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SOX	220 - 240V 50/60Hz	18W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	4,5uF/250V
		26W	Basic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	6uF/250V
		35W	Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x	-	8uF/250V
		90W	Heavy Duty	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x	10uF/250V

Distribuited by:
AMLUX s.r.l.
46042 Castel Goffredo (MN)
info@amlux.it - www.amlux.it

Products naming

LED MODULES

RdLED 210mm 1500lm 830 33V EMG Optimum

Linear shape	LinLED
Rectangular shape	RecLED
Round shape - one piece	RdLED
1/2 part of round shape	RdLED 1/2
1/4 part of round shape	RdLED 1/4

Dimensions: length x width or diameter [mm]

Luminous flux

Product family

EMG	Emergency circuit
XXV	Voltage of module
CCT	Colerrated colour temperature
7	CRI > 70
8	CRI > 80
9	CRI > 90

HID HEAVY DUTY BALLASTS

BSN 150 L33-A2-TS

High Pressure Sodium (SON)	BSN
Low Pressure Sodium (SOX)	BSX
High Pressure Mercury (HPL)	BHL
Metal Halide (MH)	BMH
Metal Halide (MH)	BHD

Lamp power

Low PF	L

A2	A2 Energy Efficiency Index
TS	Termo Switch

02	220V 50Hz
33	230V 50Hz
34	240V 50Hz
40	230V 50Hz
43	220V 60Hz
50	360/380/400V 50Hz
76	380/400/415V 50Hz
77	400/415/430V 50Hz
78	230/240V 50Hz

HID BASIC BALLASTS

BSN 150 K407-A2-ITS-A

High Pressure Sodium (SON)	BSN
Low Pressure Sodium (SOX)	BSX
Metal Halide (MH)	BMH
High Pressure Mercury (HPL)	BHL

Lamp power

Semi-parallel types compatibile with SK/SK Digital ignitors	K
Low PF	L

Number of terminals

Screw terminal	0
Insert (poke-in) terminal	2

A2	A2 Energy Efficiency Index
I	Ignitor tap
TS	Thermal protection
R	Reinforced
A	Aluminium wire

0	220V 50Hz
1	220V 60Hz
2	230V 50Hz
3	230V 60Hz
4	240V 50Hz
5	240V 60Hz
6	220/230V 50Hz
7	230/240V 50Hz
9	400V 50Hz
12	208/240V 50Hz
14	380V 50Hz
18	380/400/415V 50Hz
19	360/380/400/415V 50Hz
30	480V 60Hz or 380/400/415V 60Hz
80	220V 50Hz low profile
81	230V 50Hz low profile
82	240V 50Hz low profile

HID wiring diagrams

SEMI-PARALLEL 220..240V
SK 578 (-S)
SK 578 (-S) Digital
SN 56 (-S)
SN 59 (-S)
Philips SN(D) 57
Philips SN(D) 58

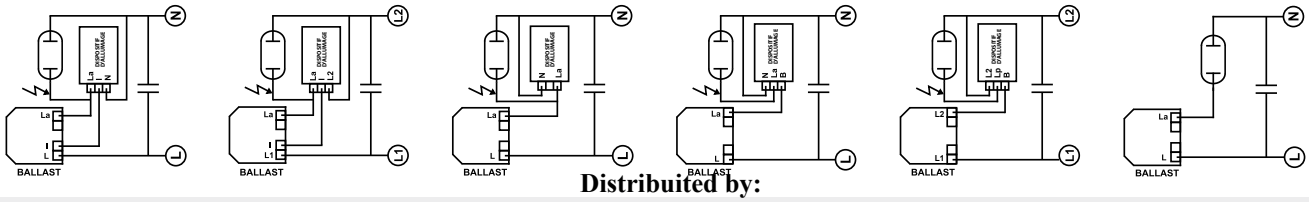
SEMI-PARALLEL 380..480V
SK 98 (-S) Digital
SK 97 (-S)

PARALLEL
SI 51 (-S)
SI 52 (-S)
SI 54 (-S)
Philips SX 26
Philips SX 76
NP 603

SERIES 220..240V
SU 10-S
SUD 10-S
SUD 40-S
SU 38-S
NI 70 S 4K (-TU)
NI 400 LE 4K (-TU)
MZN 400 S-TU
NI 1000 LE
MZN 1000 S

SERIES 360..430V
380 MZN 2000 S

NO IGNITOR



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