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ELKKOLUM



BI-POWER
ELECTRONIC HID BALLASTS FOR HS LAMPS

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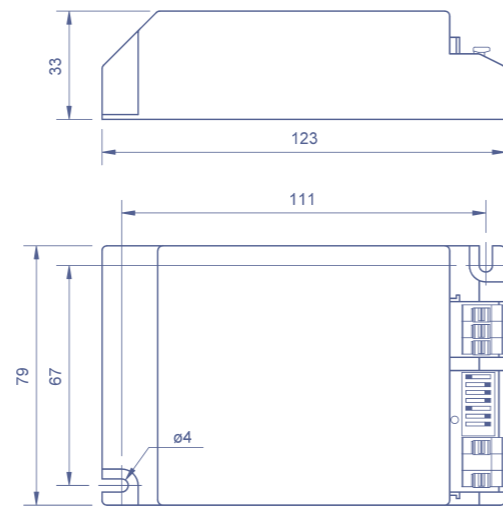


Figure 1

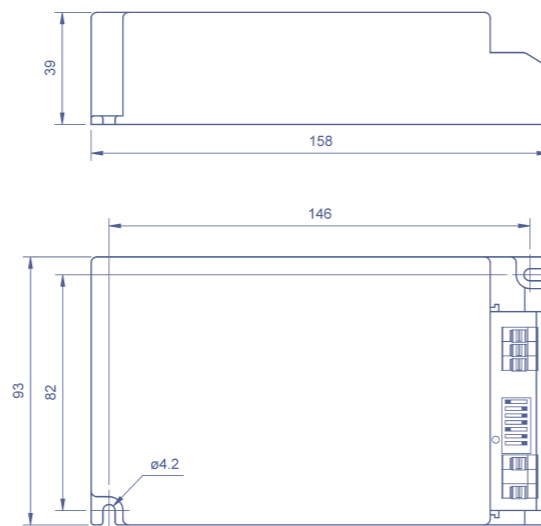


Figure 2

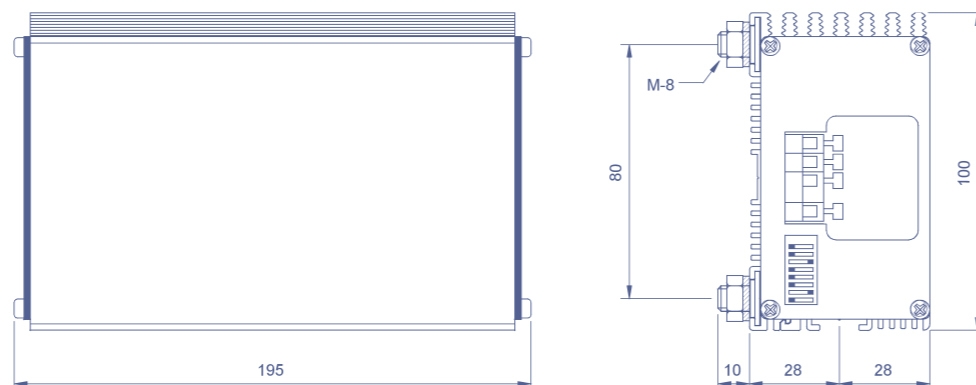


Figure 3

ADVANTAGES:

- electronic control gear;
- microcontroller based power switch;
- power factor $\geq 0,96$;
- 3 modes of reduction timing.

FEATURES:

- replaces all conventional components related to the lamp: electromagnetic ballast, igniter and power factor correction capacitor;
- lamp power stabilization in full voltage range, longer lamp life;
- controlled inrush current;
- voltage range: 220 – 240 V, 50 – 60 Hz;
- low harmonic distortion;
- works with high pressure sodium lamps.

USAGE:

- residential areas: streets, roads, avenues, roundabouts, bridges etc.
- industrial areas: industrial estates;
- commercial and public areas: car parks, railway stations, quays etc.
- transport lighting systems such as airports' aircraft parking areas etc.

ELKOLUM EC4 HID

electronic ballasts stand out with several advantages when compared to conventional systems.

Fully electronic control gear with high power factor.

Energy saving: mains power consumption is lower, providing the same quality performance. In addition, it has necessary elements for automatic switch to reduced power, with or without need for any auxiliary control line. Controlled starting current: over currents are not produced during the lamp starting. Current and mains power consumption increase from a reduced value up to the nominal ones during thermal stabilization of the lamp. This feature allows an optimal selection of the thermal magnetic circuit breaker (MCB) and the energy supply contract.

Elkolum EC4 ballasts have several protections mechanisms to switch off the lamp and to inhibit the ballast in order to avoid failures. The cause indication of the ballast stop (LED diode) allows optimization of the maintenance tasks.

The ballast is automatically reset when the normal operating conditions are re-established.

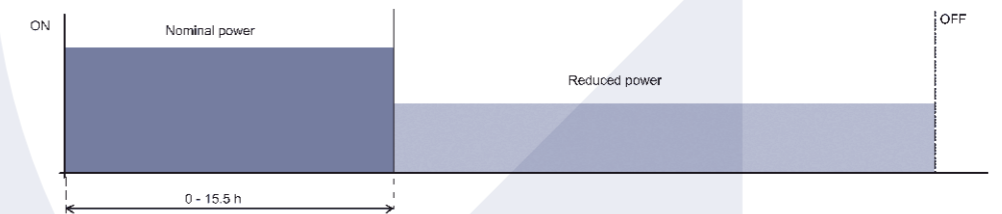
IP20 protection

According to EN 61347

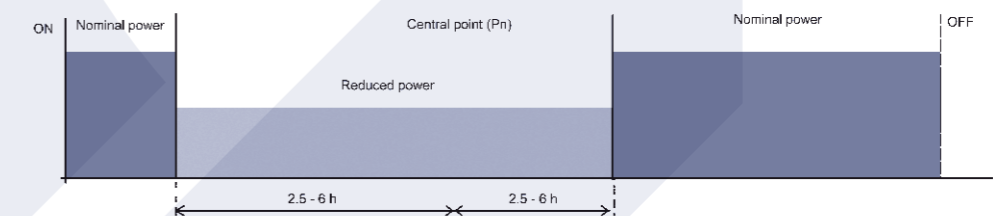
Electronic HID ballast							Lamp			System				
Type	Ord. No.	Figure	Approval	t_c	$t_{ambiente}$	Weight	Ignition voltage	Output	Type	Wires length	System Current	Nominal power	Reduced power	Power factor
				$^{\circ}C$	$^{\circ}C$	g	kV	W	HS	m	A	W	W	
EC4-50	9247	1	-	75	-20...+55	220	2.3	50	HS	2.5	0.25	55	40	0.96
EC4-70	9248	1	ENEC	75	-20...+55	220	2.3	70	HS	2.5	0.31	70	52	0.96
EC4-100	9249	2	ENEC	80	-20...+60	400	3.5	100	HS	2.5	0.44	100	60	0.97
EC4-150	9250	2	ENEC	80	-20...+55	400	3.5	150	HS	2.5	0.66	150	90	0.98
EC4-250	9251	3	-	80	-20...+55	885	3.5	250	HS	2.5	1.10	250	150	0.98

Timing options for reduction order:

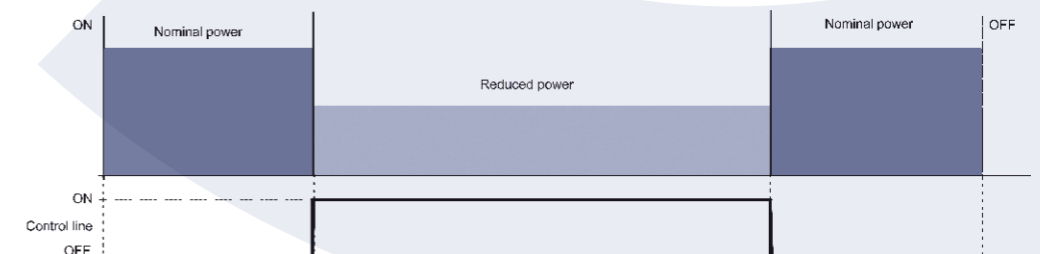
1.- Fixed timing



2.- Timing by program



3.- By control line* (230V 50/60Hz)



* Only available in types EC4-...D