

## Hot restrike ignitor for high-intensity discharge lamps

### Performance characteristics

- Fully electronic ignitor with intelligent ignition management on the base of microprocessor technology for lamps with a supply voltage of 230V, 277V, 400V respectively 480V
- Multi-Lamp function for automatic recognition of the connected lamp and individual adaptation of the ignition parameters
- Flicker-free and lamp preserving instant start of hot and cold lamps; lamp service life virtually independent of switching frequency
- Symmetric ignition, i.e. high voltage on both lamp leads
- Automatic switch-off in case of abnormal lamp operation and End-of-Life recognition to protect the components of the luminaire
- Switch-off upon cycling recognition of lamps at the end of their service life to avoid blinking operation
- Reliable lamp start irrespective of mains voltage fluctuations
- Additional 2-pole control input for the direct connection of a micro switch working as a gate switch to deactivate ignition while opening the luminaire, max. 250VAC, max. 1 A
- 3-pole control input (IVL) for reducing the maximum ignition voltage from 40kV to 36kV or 25kV



### Model

Version	Order no.	Max. ignition voltage	Lamps
230/480 ZIR 2000 AS 2L	1010 111 13146	40 kV	MHN-LA 1000 W/...
			2000 W/ 956 Cable 400 V
			MHN-SA 1800 W/ 956 (P)SFC 400 V
			2000 W/ 956 X830R 400 V
			MHN-SB Pro 2000 W/ 956 Cable 400 V
			LU .../TD 1000 W
			HQI-TS 1000 W/...
			2000W/D/S...
			2000W/N/L
			2000 W/NDL/...
		HRI-TS 1000 W/...	
		2000W/D/S...	
		2000W/N/L	
		2000 W/NDL/...	
		HIT-DE 2000 dw	
		36 kV	HCI-TS 250 W/...
			HQI-TS 250/...; 400/...
			RCC-TS 250/...
			HRI-TS 250/...; 400/...
			ARC.../TD... 250 W
HSI-TD 250 W			
HIT-DE 250 W, 400 W			
MH-DE 250 W/...			
NAV-TS 250/400			
HST-DE 250 W, 400 W			
25 kV	HCI-TM 250.../400...		
	MHN-SE 2000 W		

### Compliances and markings



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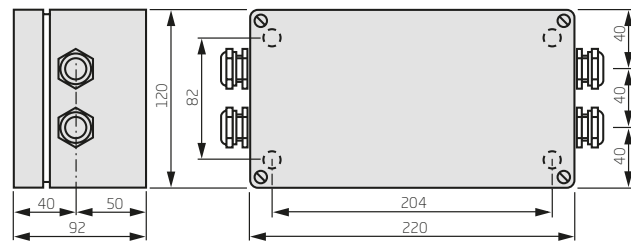
### Technical data

<b>Mains voltage supply</b>	
Rated voltage range	220 ... 240 V 277 V 380 ... 415 V 480 V
Frequency	50/60 Hz ( $\pm$ 1 Hz) except 277 V 60 Hz ( $\pm$ 1 Hz) (277 V)
<b>Connections</b>	
Screwed cable glands	M20 x 1,5
Cable connector HV-connectors	6.5 – 12.0 mm
Cable diameter "Ignition cut-off" and mains terminals	7.0 – 11.0 mm
Mains: 3-pole screw terminal	0.5 – 6.0 mm <sup>2</sup>
Lampe: Screw terminals	0.5 – 6.0 mm <sup>2</sup>
Ignition cut-off: 2-pole screw terminal	0.5 – 6.0 mm <sup>2</sup>
Ignition Voltage Limitation (IVL): 2-pole screw terminal	0.5 – 6.0 mm <sup>2</sup>
<b>Max. temperature at housing surface</b>	+ 80 °C
<b>Power loss</b>	< 12 W @ 12,2 A
<b>Nominal service life</b>	50,000 h with failure rate $\leq$ 10 % and operation at $t = t_{c,max}$
<b>Load capacity</b>	max. 30 pF
<b>Weight</b>	2.83 kg

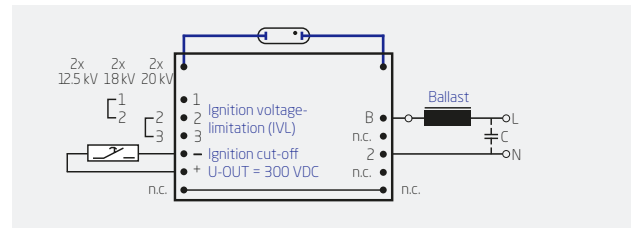
### Admissible temperatures

Version	Ambient ( $t_a$ )	Case ( $t_c$ )
230/480 ZIR 2000 AS 2L	- 30 °C ... + 50 °C @ 12.2 A	max. + 80 °C

### Dimensions



### Wiring diagram



Terminal	230/277 V	400/480 V		
B	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>
2	N	L <sub>2</sub> /L <sub>3</sub>	L <sub>3</sub> /L <sub>1</sub>	L <sub>1</sub> /L <sub>2</sub>

### Conformance with regulations

EN 61 347-1 General and safety requirements  
EN 61 347-2-1

EN 60 927 Performance requirements

Environmental tests for mechanical capacity:

IEC 60 068-2-6 Test Fc: vibrations (sinusoidal)

IEC 60 068-2-27 Test Ea: shock and bump

IEC 60 068-2-29 Test Eb: shock and bump

Quality management certified according to ISO 9001

### Operating data

Version	Nominal lamp current	Ignition time	Max. ignition voltage*	Pulses per mains cycle	Load capacity	Power loss	Inherent heating at $t_a = 25$ °C
	A	s	kV		pF	W	
230/480 ZIR 2000 AS 2L	max. 12.2	max. 30	25/36/40	1	max. 30	< 12 @ 12.2 A	-

\* The maximum ignition voltage is selected via connecting terminals "Ignition Voltage Limitation (IVL)". In case the terminals are connected by means of a bridge between 1 and 2 respectively 2 and 3 the maximum ignition voltage of 36 kV respectively 40 kV is released. In case of absence of that connection the unit provides maximum 25 kV. Half the ignition voltage is fed to each lamp lead.

**Note:** Continuous switching off and on can damage the product.