

Hot restrike igniter for high-intensity discharge lamps



Performance characteristics

- Fully electronic igniter with intelligent ignition management on the base of microprocessor technology for lamps with a supply voltage of 230 V, 277 V, 400 V respectively 480 V
- 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. 250 VAC, max. 1 A
- 3-pole control input (IVL) for reducing the maximum ignition voltage from 40 kV to 36 kV or 25 kV

Model

Version	Order no.	Max. ignition voltage	Lamps	
230/480 ZIR 2000 AS 2L	10061593	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/ ...		
		25 kV	NAV-TS 250/400	
			HST-DE 250 W, 400 W	
				HCI-TM 250.../400...
				MHN-SE 2000 W

Compliances and markings



Hot restrike igniter for high-intensity discharge lamps

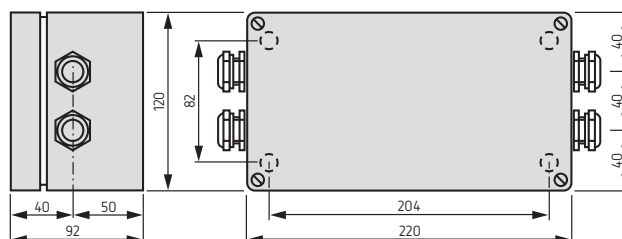
Technical data

Mains voltage supply	
Rated voltage range	220 ... 240 V 277 V 380 ... 415 V 480 V
Frequency	50/60 Hz (+/- 1 Hz) except 277 V 60 Hz (+/- 1 Hz) (277 V)
Connections	
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 ²
Lampe: Screw terminals	0.5 – 6.0 mm ²
Ignition cut-off: 2-pole screw terminal	0.5 – 6.0 mm ²
Ignition Voltage Limitation (IVL): 2-pole screw terminal	0.5 – 6.0 mm ²
Max. temperature at housing surface	+ 80 °C
Power loss	< 12 W @ 12,2 A
Nominal service life	50,000 h with failure rate ≤ 10 % and operation at $t_c = t_{c, max}$
Load capacity	max. 30 pF
Weight	2.83 kg

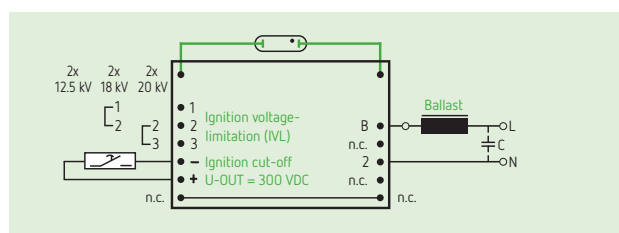
Admissible temperatures

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 ₁	L ₂	L ₃
2	N	L ₂ /L ₃	L ₃ /L ₁	L ₁ /L ₂

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 s	Max. ignition voltage* kV	Pulses per mains cycle	Load capacity	Power loss W	Inherent heating at $t_a = 25 °C$ K
	A				pF		
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.