

Technical Information

No. 4186

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Substitutes: Edition 05/11

Status: valid

Xenon Short Arc Lamp

XBO® 2000 W/HS OFR

■ Product description

The OSRAM XBO® 2000 W/HS OFR is a DC-operated lamp that is especially suited for applications requiring excellent arc stability and a high luminance. The OSRAM XBO® 2000 W/HS OFR is designed for horizontal burning position (H = horizontal, S = short).

■ Technical data

Order reference	XBO® 2000 W/HS OFR	
Rated lamp wattage	W	2000
Rated lamp voltage	V	24
Rated lamp current (DC)	A	80
Current control range	A	50 – 85
Ignition voltage	kV _p	36
Min. open circuit voltage for cold / hot ignition	V	85 / 110
Luminous flux	lm	80000
Luminous intensity	cd	7500
Average luminance	cd/cm ²	80000
Luminous area w x h ¹⁾	mm	1.3 x 4.0
Electrode gap e (cold)	mm	5
Lamp length (overall) l ₁	mm	max. 342
Lamp length l ₂	mm	max. 302
Cable length l ₃	mm	max. 290
LCL a	mm	145
Bulb diameter d	mm	60
Warranty	h	2400
Base	Cathode	SFa 27-7,9
	Anode	SFaX 27-9,5

¹⁾ w = luminance half width value; h = height of luminous area (corresponds to electrode gap, hot)

■ Lamp operation

Maximum permissible base temperature	230°C
Cooling requirements	forced cooling / fan necessary
Min. air flow velocity around discharge vessel	5 m/s
Operating position	s 30 (vertical ± 30°; anode up) ; p 30 (horizontal ± 30°)
Detailed electrical lamp operation is described in our Guidelines for Power Supplies and Igniters, no. DO GL- 4186	

