

Technical Information

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Substitutes: Edition 03 / 01

Status: preliminary

Xenon Short Arc Lamp

XBO[®] 6000 W/HTP OFR

Product description

The OSRAM XBO[®] 6000 W/HTP OFR is a DC-operated lamp that is especially suited for applications requiring excellent arc stability and a high luminance. The OSRAM XBO[®] 6000 W/HTP OFR is designed for horizontal burning position (H = horizontal, TP = threaded pin).

Technical data

Order reference	XBO [®] 6000 W/HTP OFR	
Rated lamp wattage	W	6,000
Rated lamp voltage	V	37
Rated lamp current (=)	A	160
Current control range	A	110 - 165
Ignition voltage	kV _s	40
Min. open circuit voltage for cold / hot ignition	V	85 / 110
Luminous flux	lm	280,000
Luminous intensity	cd	28,000
Average luminance	cd/cm ²	105,000
Luminous area w x h *)	mm	2.0 x 7.5
Electrode gap e (cold)	mm	9.0
Lamp length (overall) l ₁	mm	max. 433
Lamp length l ₂	mm	max. 382
LCL a	mm	165
Bulb diameter d	mm	78
Average service life	h	600
Base	Cathode:	SFc 30-14
	Anode:	SFa 30-14

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

Lamp operation

Maximum permissible base temperature	230 °C
Cooling	forced cooling / fan
Min. air flow velocity around discharge vessel	6 m/s
Magnetic arc stabilization	necessary for horizontal operation
Burning position	s 15 (vertical ± 15° ; anode up) ; p 15 (horizontal ± 15°)

