

Technical Information

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Substitutes: Edition 08/92

Status: valid

Xenon Short Arc Lamp

XBO[®] 4200 W/CA OFR

Product description

The OSRAM XBO[®] 4200 W/CA OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO[®] 4200 W/CA OFR is designed for vertical burning position (CA = cable on anode base).

Technical data

Order reference	XBO [®] 4200 W/CA OFR	
Rated lamp wattage	W	4.200
Rated lamp voltage	V	29
Rated lamp current (=)	A	140
Current control range	A	80 - 160
Ignition voltage	kV _P	33
Min. open circuit voltage for cold / hot ignition	V	75 / 100
Luminous flux	lm	190,000
Luminous intensity	cd	20,000
Average luminance	cd/cm ²	100,000
Luminous area w x h *)	mm	2.1 x 5.7
Electrode gap e (cold)	mm	7.0
Lamp length (overall) l ₁	mm	max. 428
Lamp length l ₂	mm	max. 382
LCL a	mm	167.5
Bulb diameter d	mm	70
Average service life	h	1000
Base	Cathode	SFaX 27-14
	Anode	SFaX 27-13

*) 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
Operating position	s 15 (vertical ± 15° ; anode up)

