

# Technical Information

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Substitutes: Edition 06/01

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# Xenon Short Arc Lamp

# XBO<sup>®</sup> 700 W/HS OFR

## ■ Product description

The OSRAM XBO<sup>®</sup> 700 W/HS OFR is a DC -operated lamp that is especially suited for applications requiring excellent arc stability and high luminance. The OSRAM XBO<sup>®</sup> 700 W/HS OFR is designed for horizontal burning position ( H = horizontal) and excels with its compact dimensions ( S=short).

## ■ Technical data

|  |                               |           |
|--|-------------------------------|-----------|
| Order reference                                      | XBO <sup>®</sup> 700 W/HS OFR |           |
| Rated lamp wattage                                   | W                             | 700       |
| Rated lamp voltage                                   | V                             | 18        |
| Rated lamp current (=)                               | A                             | 37        |
| Current control range                                | A                             | 30 - 45   |
| Ignition voltage                                     | kV <sub>P</sub>               | 30        |
| Min. open circuit voltage<br>for cold / hot ignition | V                             | 60 / 75   |
| Luminous flux  | lm                            | 20,000    |
| Luminous intensity                                   | cd                            | 2,000     |
| Average luminance                                    | cd/cm <sup>2</sup>            | 40,000    |
| Luminous area w x h *)                               | mm                            | 1.1 x 2.9 |
| Electrode gap e (cold)                               | mm                            | 3.6       |
| Lamp length (overall) l <sub>1</sub>                 | mm                            | max. 235  |
| Lamp length l <sub>2</sub>                           | mm                            | max. 205  |
| LCL a  | mm                            | 95        |
| Bulb diameter d                                      | mm                            | 40        |
| Average service life                                 | h                             | 2,000     |
| Warranty   | h                             | 1,500     |
| Base   | Cathode:                      | SFaX 27-8 |
|  | Anode:                        | SFa 27-11 |

\*) 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                                      |
| Min. air flow velocity around discharge vessel | 5 m/s   |
| Burning position                               | s 20 (vertical ± 20°; anode up) ; p 20 (horizontal ± 20°) |

