



Maximum beam intensity

Philips MSR SA/Single Ended lamp are the latest MSR SA lamps; more light in the beam.

The very short arc creates a high beam intensity. The compact lamp concept makes it the perfect lamp for compact luminaires. Colors are optimal, performance is consistent.

PHILIPS

APPLICATION: EVENT LIGHTING

Philips MSR SA / Single Ended

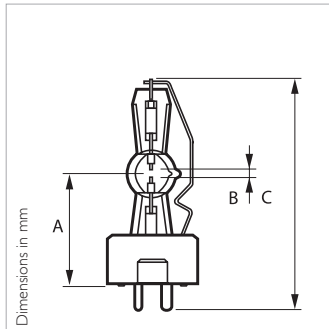
Features	Benefits
Philips Pinch Protection	Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
Very short arc	High beam intensity
Compact lamp design	Compact design luminaries
MSR filling	Excellent color characteristics, optimal colors on stage



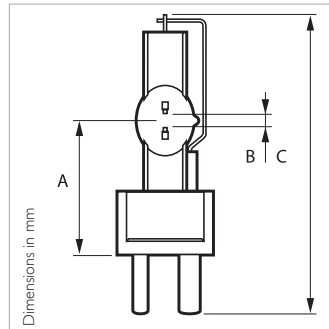
MSR 400 SA / MSR 700 SA



MSR 1200 SA / MSR 2000 SA



MSR 400 SA / MSR 700 SA



MSR 1200 SA / MSR 2000 SA

Dimensions			
Type	A	B	C max.
MSR 400 SA	36.5±0.5	3.0	80
MSR 700 SA	39.0±0.5	4.0	85
MSR 1200 SA	59.0±0.5	7.0	135
MSR 2000 SA	59.0±1.0	7.0	135

Ballast specifications			
Type of lamp	Impedance Ω	Current A	Ballast losses W
MSR 400 SA	Electronic Ballast only		
MSR 700 SA	"	"	"
MSR 1200 SA	"	"	"
MSR 2000 SA	"	"	"

Ignitor Specifications			
Type	V _p (kV) min.	Min. Ignation time max. (sec)	
MSR 400 SA	2	4.5	20
MSR 700 SA	2	4.5	20
MSR 1200 SA	2	5	20
MSR 2000 SA	2.5	5	20

Maximum permissible temperatures (°C)		
Type	Pinch	Bulb
MSR 400 SA	500	1000
MSR 700 SA	500	1000
MSR 1200 SA	500	1000
MSR 2000 SA	500	1000

Type	Lamp wattage	Cap/ base	Lumen output	Efficacy source	Chromaticity coordinates		Color rendering index	Color temp.	Burning position ^{*)}	Average lamp life	Replacement before hrs	Minimum ignition supply voltage	Lamp current	Ordering number
	W		lm	lm/W	x	y	R _a	K		h		V	A	
MSR 400 SA	400	GY9.5	30000	75	.330	.342	75	5600	ANY	750	1000	207	8.4	9281 702 05100
MSR 700 SA	700	GY9.5	55000	80	.330	.342	80	5600	ANY	750	1000	207	11.0	9281 703 05100
MSR 1200 SA	1200	GY22	96000	80	.330	.342	80	5600	ANY	750	1000	207	13.8	9281 709 05100
MSR 2000 SA	2000**	GY22	155000	86	.320	.330	> 80	6000	ANY	750	1000	207	20.0	9281 732 05100

^{*)} Tip at side

^{**)} Lamp can be operated at 2000 W for max 50% of specified average lifetime



Philips pinch protection technology

- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.
- **Philips P3 technology**, Max 500° C pinch temperature
- **No pinch protection**, Max 350° C pinch temperature



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