# PRODUCT DATASHEET
# LED Star Classic A 100 11W 840 Frosted B22d

## LED Retrofit CLASSIC A | LED lamps, classic bulb shape



### Areas of application

- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in suitable outdoor luminaires only

### Product benefits

- Lamps with innovative LED "filament" technology
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Very low energy consumption
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

### Product features

- Professional LED lamps for line voltage
- Not dimmable
- Lifetime: up to 15,000 h
- Beam angle: up to 300°
- Lamp made of glass







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- Good quality of light; color rendering index $R_a$: ≥ 80; constant chromaticity


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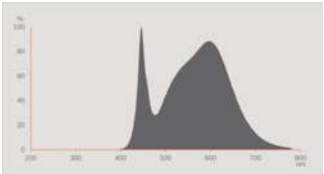
## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| Nominal wattage | 11 W |
| Construction wattage | 11.00 W |
| Nominal voltage | 220...240 V |
| Claimed equiv. conventional lamp power | 100 W |
| Nominal current | 52 mA |
| Type of current | AC |
| Inrush current | 9.5 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 18 |
| Max. lamp no. on circuit break. 16 A (B) | 23 |
| Total harmonic distortion | 110 % |
| Power factor λ | > 0.50 |

### Photometrical data

| | |
|---|---|
| Luminous flux | 1521 lm |
| Nominal useful luminous flux 90° | 1521 lm |
| Luminous efficacy | 138 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Cool White |
| Color temperature | 4000 K |
| Color rendering index Ra | ≥80 |
| Light color | 840 |
| Standard deviation of color matching | ≤6 sdcm |
| Rated LLMF at 6,000 h | 0.80 |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |




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## Light technical data

| | |
|---|---|
| Beam angle | 300 ° |
| Warm-up time (60 %) | ‹ 0.50 s |
| Starting time | < 0.5 s |

## Dimensions & Weight

| | |
|---|---|
| Overall length | 104.00 mm |
| Diameter | 60.00 mm |
| Maximum diameter | 60 mm |
| Product weight | 31.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| Ambient temperature range | -20…+40 °C |
| Maximum temperature at tc test point | 70 °C |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 15000 h |
| Number of switching cycles | 100000 |
| Lumen maintenance at end of service lifetime | 0.70 |
| Rated lamp survival factor at 6,000 h | ≥ 0.90 |

## Additional product data

| | |
|---|---|
| Base (standard designation) | B22d |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Frosted |
| Product remark | All technical parameters apply to the entire lamp / Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value |

## Capabilities

| | |
|---|---|
| Dimmable | No |

## Certificates & Standards

| | |
|---|---|
| Energy efficiency class | D [1)] |


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| | |
|---|---|
| Energy consumption | 11.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC |
| Photobiological safety group acc. to EN62778 | RG1 |

1) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

## Country-specific categorizations

| | |
|---|---|
| Order reference | LEDSCLA100 11W/ |

## Energy labelling regulation data acc EU 2019/2015

| | |
|---|---|
| Lighting technology used | LED |
| Non-directional or directional | NDLS |
| Mains or non-mains | MLS |
| Light source cap-type (or other electric interface) | B22d |
| Connected light source (CLS) | No |
| Color-tuneable light source | No |
| Envelope | No |
| High luminance light source | No |
| Anti-glare shield | No |
| Correlated colour temperature type | SINGLE_VALUE |
| Standby power | not applicable |
| Networked standby power for CLS | not applicable |
| Claim of equivalent power | Yes |
| Length | 104.00 mm |
| Height | 60.00 mm |
| Width | 60.00 mm |
| Chromaticity coordinate x | 0.380 |
| Chromaticity coordinate y | 0.380 |
| R9 Colour rendering index | 0.00 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0,9 |
| Displacement factor | 0.70 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 523268,1151045 |
| Model number | AC32501,AC41126 |


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## DOWNLOAD DATA

| | Documents and certificates |
|---|---|
| PDF | Declarations Of Conformity CE |

| | Photometric and lighting design files |
|---|---|
| | Spectral power distribution |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075592797 | Folding box<br>1 | 60 mm x 60 mm x 145 mm | 46.00 g | 0.52 $dm^3$ |
| 4058075592803 | Shipping box<br>6 | 202 mm x 134 mm x 120 mm | 382.00 g | 3.25 $dm^3$ |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## DISCLAIMER

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