Operating Instructions

Projector BS 67...., BS 68.... und BS 69....

EC Type Examination Certificate: IBExU 05 ATEX 1111

Type of Explosion Protection: I M2 Ex eq(d) I
II 2G Ex eq(d) IIC T4 / T3
II 2D T 80 °C IP 66

Degree of Enclosure Protection: IP 66

Ambient Temperature Range: - 20 °C to + 40 °C

Technical Specifications

Dimensions

Versions with metal frame lids	BS 671... BS 672...	BS 673... BS 674... BS 675... BS 676...	BS 677... BS 678...
Length approx. Width approx. Height approx.	492 mm 400 mm 190 mm	650 mm 400 mm 160 mm	750 mm 400 mm 160 mm

Versions with glass / PC lids	BS 685... BS 686...	BS 687... BS 688... BS 689... BS 690...	BS 691... BS 692... BS 693...
Length approx. Width approx. Height approx.	516 mm 424 mm 180 mm	674 mm 424 mm 150 mm	774 mm 424 mm 150 mm

Electrical parameters

Type	Rated voltage	Frequency	Lamp wattage	Current consumption approx.
BS 671	230 V	0-50/60 Hz	3 x 36 W	0.47 A
BS 672			4 x 36 W	0.63 A
BS 673			3 x 36 W	0.47 A
BS 673			3 x 40 W	0.52 A
BS 674			4 x 36 W	0.63 A
BS 674			4 x 40 W	0.70 A
BS 675			3 x 55 W	0.72 A
BS 676			4 x 55 W	0.96 A
BS 677			3 x 80 W	1.04 A
BS 678			4 x 80 W	1.39 A

Type	Rated voltage	Frequency	Lamp wattage	Current consumption approx.
BS 685			3 x 36 W	0.47 A

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Geschäftsführer: Markus Alz

BS 685			3 x 40 W	0.52 A
BS 686			4 x 36 W	0.63 A
BS 686			4 x 40 W	0.70 A
BS 687			3 x 36 W	0.47 A
BS 687			3 x 40 W	0.52 A
BS 688	230 V	0-50/60 Hz	4 x 36 W	0.63 A
BS 688			4 x 40 W	0.70 A
BS 689			3 x 55 W	0.72 A
BS 690			4 x 55 W	0.96 A
BS 691			3 x 80 W	1.04 A
BS 692			4 x 80 W	1.39 A
BS 693			8 x 18 W	0.63 A

Installation and connection

The projectors of type BS 67.., BS 68.. and BS 69.. may be installed in any position. Mounting straps being attached to the enclosure serve as mounting aid for wall mounting, or eyebolts for suspension from a ceiling.

Beneath the reflector, there is the terminal compartment containing a terminal board, a protective ground conductor terminal and a terminal diagram. The mains power supply line is fed through a cable entry into the terminal compartment and is connected to the terminal board and the ground conductor terminal according to the enclosed terminal diagram. In case the projectors are equipped with plug and socket connectors there is no terminal board, and the internal wiring is already installed by the manufacturer.

ATTENTION! If the enclosure is equipped with threaded sleeves these will have thread M 36 x 1.5!

Starting operation

Before starting operation of luminaires with cable entries care must be taken that the terminals of the connecting cables are properly tightened and the enclosure of the projector is tightly closed (check the screws in the lid and the cable entries or the plug and socket connectors).

Repair

Defect illuminants (customary four-pin compact fluorescent lamps with socket 2 G 11 – 36, 40, 55 or 80 W – or customary bi-pin fluorescent tubes with G 13 sockets – 18 W) may be exchanged by the operator himself, under the condition that the installation instructions are regarded. For this purpose versions without micro switches have to be completely de-energized; for versions with micro switches this is not required as the lamp holders become de-energized when the lid is opened (see warning label on the housing lid or – in case there is a micro switch – on the reflector: **Do Not Open While Energized!**). Regard has also to be paid to the heat generation of the projector, so that it may be necessary to wait for a couple of minutes before the projector is opened.

To open the projector the screws of the lid have to be undone. Now the illuminants are accessible and can be exchanged. When installing ensure a firm fit of the lamp holders. Lamp holders with defect contact elements have to be exchanged immediately.

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Repairs of explosion-proof projectors may only be carried out by authorized personnel and by using original spare parts of the manufacturer.

Special conditions have to be observed, if applicable.

When installing electrical equipment in potentially explosive atmospheres EN 60079-14 has to be complied with.

ATTENTION !!!

Before starting operation store the projectors in a dry place, protect against moisture!

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