ABB i-bus® EIB

Universal Dim Actuator, 2-fold, 300 VA, MDRC UD/S 2.300.1, GH Q631 0045 R0111

The dimming actuator is a DIN rail mounted device for insertion in a distribution board. The connection to the EIB is established via a bus connecting terminal.

It has two independent channels. They can dim different luminaires (load types) as the dimmer has both a phase-aligned and phase-controlled dimming function available.

Using automatic load detection, the device is able to set its output to various loads. It then adopts the operating mode of phase-aligned dimmer or phase-controlled dimmer.

Technical Data

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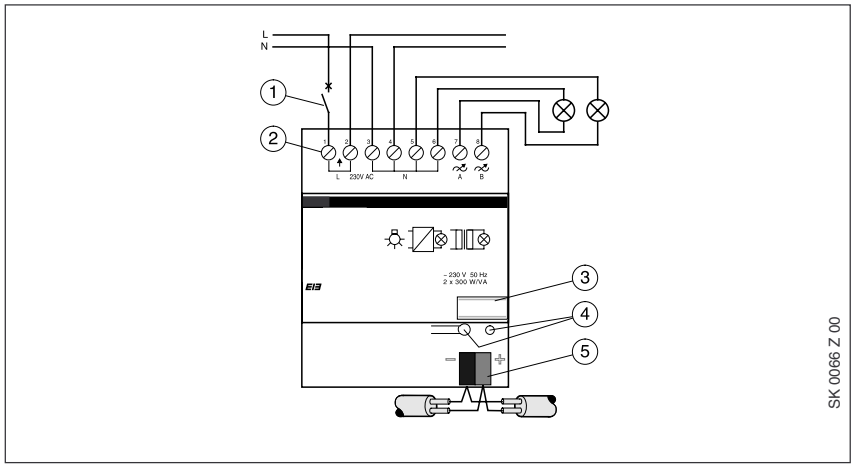
Power supply	– EIB	24 V DC, via the bus line
Operating and display elements	– LED (red) and push button	for assigning the physical address
Outputs	– Dimming outputs	2
	– Output voltage	230 V AC, dimmed via phase alignment or phase control
	– Max. output capacity (up to 45°C ambient temperature)	300 W (VA) per output 500 W (VA), only one output is connected
	– Min. output capacity	40 W (VA) per output
	– Max. leakage loss	5 W
Connections	– Load circuits	2 screw terminals each
	– Phase connection	2 terminals for the connection of phase and neutral conductor
		2 terminals for looping through
	– Wire range	0.2 - 2.5 mm^2
	– EIB	1 bus connecting terminal (included with supply)
Type of protection	– IP 20, EN 60 529	
Protection class	– II	
Ambient temperature range	– Operation	- 5 °C … 45 °C
	– Storage	-25 °C … 55 °C
	– Transport	-25 °C … 70 °C
Design	– Modular installation device, pro*M*	
Housing, colour	– Plastic housing, grey	
Mounting	– on 35 mm mounting rail, DIN EN 50022	
Dimensions	– 90 x 72 x 64 mm (H x W x D)	
Mounting depth/width	– 68 mm / 4 modules at 18 mm	
Weight	– 0.250 kg	
Certification	– EIB-certified	
CE norm	– in accordance with the EMC guideline and the low voltage guideline	

Application programs	Number of communication objects	Max. number of group addresses	Max. number of associations
Dim Stairc.fct. Slave /1	16	43	43

Circuit diagram



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1 Back-up fuse, 10 A
2 Supply terminals
3 Labelling fields
4 Programming LED, push button
5 Bus connecting terminal

Note

Both outputs A and B can operate different load types. The mixed operation of inductive and capacitive loads on the same output is however not permitted.

If the device does not function during the commissioning phase, the bus terminal on the dimmer should be removed and reinserted. The device then carries out a new load test.

Caution: Prior to programming, service release B of ETS2 V1.1 or higher must be installed on the commissioning PC. If this is not taken into account, the device cannot function and can no longer be programmed.