LSS

PowerDim WM

Wall dimmer with either 24x 3 kVA or 12x 5 kVA power, optional power switch, switchable baseload, and configurable circuit breaker

The LSS PowerDim WM is a compact dimmer for wall mounting. The dimmer offers either 24x 3 kVA or 12x 5 kVA power circuits. Each circuit can be defined either as Dim or Non-Dim and switched over via bistable relays. The power circuits are individually protected with MCBs, which can optionally be supplemented with RCDs (4x6 or 2x6 circuits) or replaced by RCBOs per circuit.

The LSS PowerDim WM allows a base load-free dimming. For the operation of electronic ballasts (fluorescent lamps) and other small loads, an electronic base load can be switched on per circuit. Also, each dimmer circuit has a real bypass switchover, which bridges the choke and thyristor at 100% load and significantly reduces the power loss.

The LSS PowerDim WM can be controlled either via Ethernet or DMX. The control unit is equipped with an Ethernet / DMX network node that supports RDM and can be used as an RDM proxy.

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Technical Specifications:

Generals

Mechanical construction	Ready-to-use device for wall mounting
Operation	Local: Menu control with encoder and menu display Remote: Configuration via ConfigCore
RDM	RDM notification of all settings and measured values
Display	Text display with 20x4 characters and white background lighting
Ambient temperature	0 °C – 40 °C
Operating temperature	0 °C – 60 °C
RoHS Approval	Compliant
IP Class / Appliance classes	IP 20 / Class I
Color	Body: Aluminum, powder-coated, black matt structured Front panel: Aluminum, powder-coated, cobalt blue matt structured
Dimensions (H x W x D)	1106 x 555 x 155 mm
Weight	Ca. 70 kg
Scoop of delivery	1x Dimmer device inclusive 1x RJ45 connector and cable gland

Order number

Power configuration	**Combination of circuit breaker**		
	RCBO	**MCB & RCD per 6 circuits**	**MCB only**
24x 3 kVA	L02013-11	L02013-12	L02013-13
12x 5 kVA	L02013-21	L02013-22	L02013-23

Dimmer

Operating modes	Dimmer: Phase control dimmer for all ohmic/inductive loads occurring in practical operation NonDim: Switching with adjustable switching point (e.g. electronic ballasts from Fluorescent lamps and other loads)
Dimmer	- Global or single circuit setting - Switchable base load - Bypass circuit at 100% load - 8Bit / 16Bit control - 13 dimmer curves - Adjustable fade-in and fade-out times - Adjustable minimum and maximum dimming values - In case of failure, Off, Hold, and adjustable backup values

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Network connectors

DMX	DMX-Out: 2x 5 pin XLR DMX-In: 1x 5 pin XLR DMX-THRU: 1x 5 pin XLR (optically isolated according to ANSI E1.11 A1)
Ethernet back	1x RJ45 10/100 Mbit/s, Range and duplex mode manually adjustable
Network protocols	Art-Net, AVAB-IPX, AVAB-UDP, ShowNet, sACN

Device protection

Protection of the power circuits	Standard: MCB per circuit Optional: - MCB per circuit & RCD per 6 circuits - RCBO (FI/LS) per circuit
Current Control	Overload protection with individual phase monitoring, manual setting of the maximum load per phase with adjustable switch-off thresholds and maximum total load with adjustable total switch-off threshold, and prioritization of individual circuits

Connections

Internal	3 kVA 4 mm^2 connecting terminal 5 kVA 6 mm^2 connecting terminal
Optional Plug Connectors	- CEE 7/x (230 V/16 A) 2pin + Ground (253 V/16 A) for 3 kVA - DBS 2pin + Ground (230 V/16 A) for 3 kVA - DBS 2pin + Ground (230 V/26 A) for 5 kVA - 16-pin + Ground (250 V/16 A) for 3 kVA

Power Supply

Voltage/Current	400 V AC/max. 100 A via internal connecting terminal max. 50 mm^2
Device protection	max. 100 A (external)

Cooling

Cooler	Temperature controlled (max. 30 dBA)
Temperature control	- Adjustable warning and switch-off threshold - Automatic switch-off

Electrical characteristics

Power loss dimmable circles	5 kVA: max. 50 W per power circuit 3 kVA max. 30 W per power circuit In each case with 100% control and nominal load.
Rise time	180 µs
Minimum load	0 VA (not necessary), for current control 150 W

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Drawing with dimensions