

3 kW / 5 kW Sine Wave Dimmer Module for EURODIM 3 Cabinets



Description

- This 3 kW or 5 kW sine wave dimmer module is designed to be fully interchangeable with the 3 kW or 5 kW thyristor modules in ADB's EURODIM 3 cabinets with 1P+N wiring.
- It is a transistor dimmer, using HF pulse width modulation techniques, for regulating the amplitude of the mains supply voltage from 0 to 100%, without generating any harmonic distortion. The output is a smooth sine curve, perfectly reflecting the input wave form. Actually the dimmer works like an autotransformer.

Major User Benefits

- Silent dimming of practically any load at any level
- Insensitivity to frequency variations and zero crossing fluctuations as a result of using a bidirectional switching topology
- ON / OFF switching of fixtures with discharge lamp and/or electronic power supply
- Elimination of harmonics, lamp filament noise, noise induced in audio equipment
- Strong reduction of reactive power and mains pollution
- Longer lamp life
- Self-protection against short circuits
- Self-limitation of peak current
- Possibility of enhancing an existing, thyristor based EURODIM 3 dimmer installation

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EURODIM 3 cabinet with crate protection and double control electronics

Technical Specifications for 3 kW/5 kW dimmers

- Power supply: 198V – 264V, 50/60 Hz.
- Power rating: 3 kW / 5 kW for continuous duty at +30 °C ambient.
- Max. peak current: 60A/100A during 100 ms.
- Output current limitation at 13.5A/23A after 40 s.
- Electrical protection by internal HRC fuse, 12A/20A.
- Electrical isolation by 1P+N switch on the front panel, or protection by RCD 30mA.
- Response to a short circuit: current is cut off, then restoring attempts every 2 s until short is removed (up to 5 attempts).
- Types of loads: 230V tungsten halogen lamps, resistive and inductive loads, transformer-fed low voltage lamps, fluorescent lighting with suitable ballasts.
- 3 LED indicators:
 - Red : Overtemperature warning (flash) + overvoltage (flash)
 - Yellow: Output current + short circuit (flash)
 - Green : Output voltage
- Status report and other technical characteristics like for EURODIM 3.

Product References : DD3 / S 1x3 / F / SN (3 kW)

DD3 / S 1x5 / F / SN (5 kW)

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