

KNX Dimmer Trailing Edge

Model No: L6793-06XK

Profile

- The dimming power amplifier employs trailing-edge phase control technology, receiving KNX signals and converting them into high-power 0-220V TRIAC dimming output.
- Compatible with incandescent lamps, dimmable LED lamps, and low-voltage halogen lamps with electronic transformers.
- Each channel delivers an output power of up to 600W.

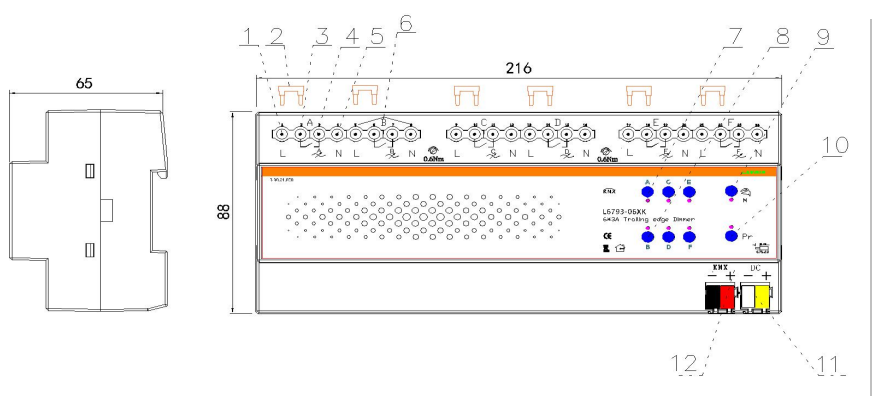
Features

- Featuring a manual dimming button, metal housing for enhanced heat dissipation, multi-level temperature protection, and flicker-free dimming module
- Equipped with signal input buffer design for smooth dimming performance (timing $\geq 220\mu s$)
- Comprehensive protection includes short-circuit, overload, and over-voltage safeguards
- Long lifespan, compact size, and compatible with 35mm DIN-rail installation
- Plug-in design for signal input terminals ensures easy and reliable connection

Technical Parameters

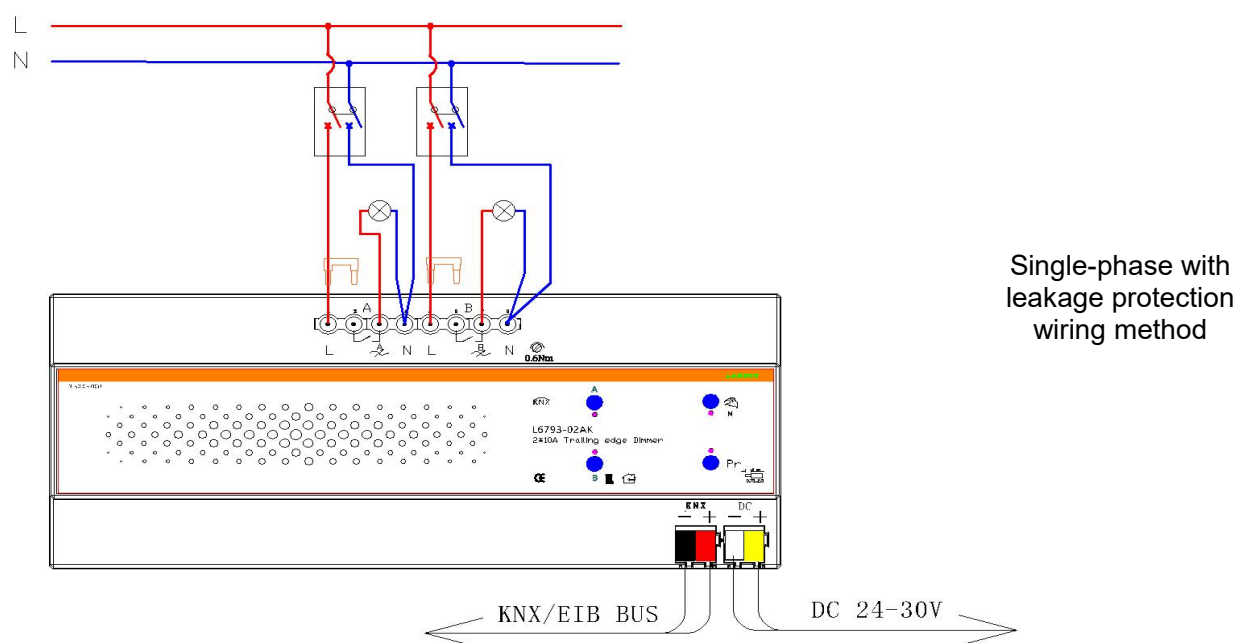
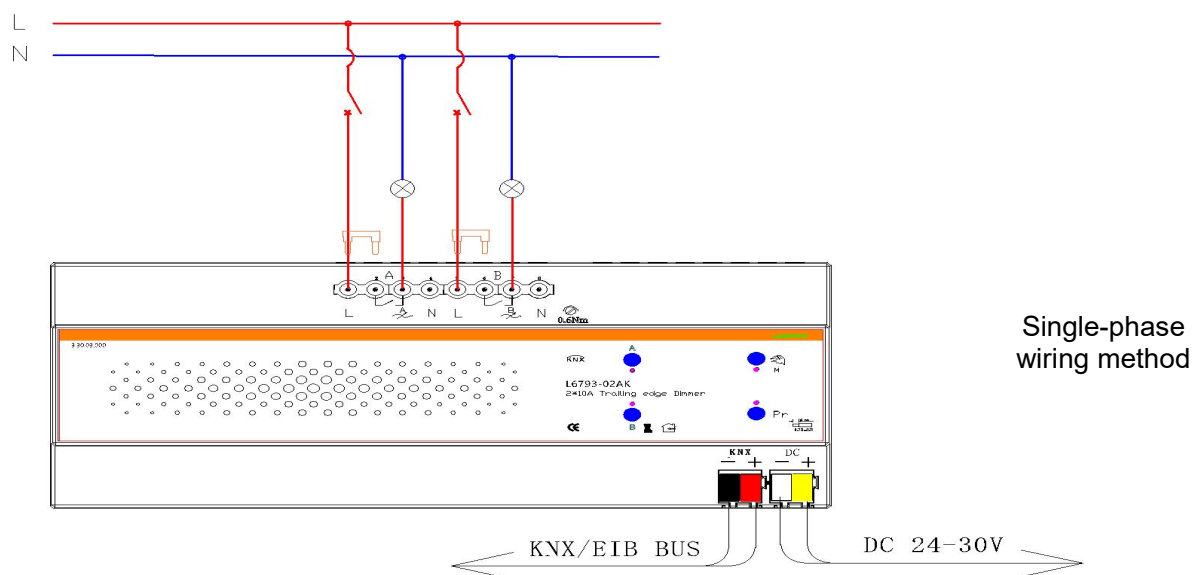
Model No	L6793-06XK
Brand	LAMMIN
Input Signal	KNX signal
Input Voltage	AC 220V
Output Voltage	AC 0-220V
Working Power	DC 24-30V
Frequency Range	50/60Hz
Max Load Current	3A/CH*6
Max Output	600W*6
Min Load	40W
Certification	CE
Working Temp	-20°C~+50°C
Warranty	3 years
Size(L*W*H)MM	88*216*65
Installation	35mm DIN rail
Photo	

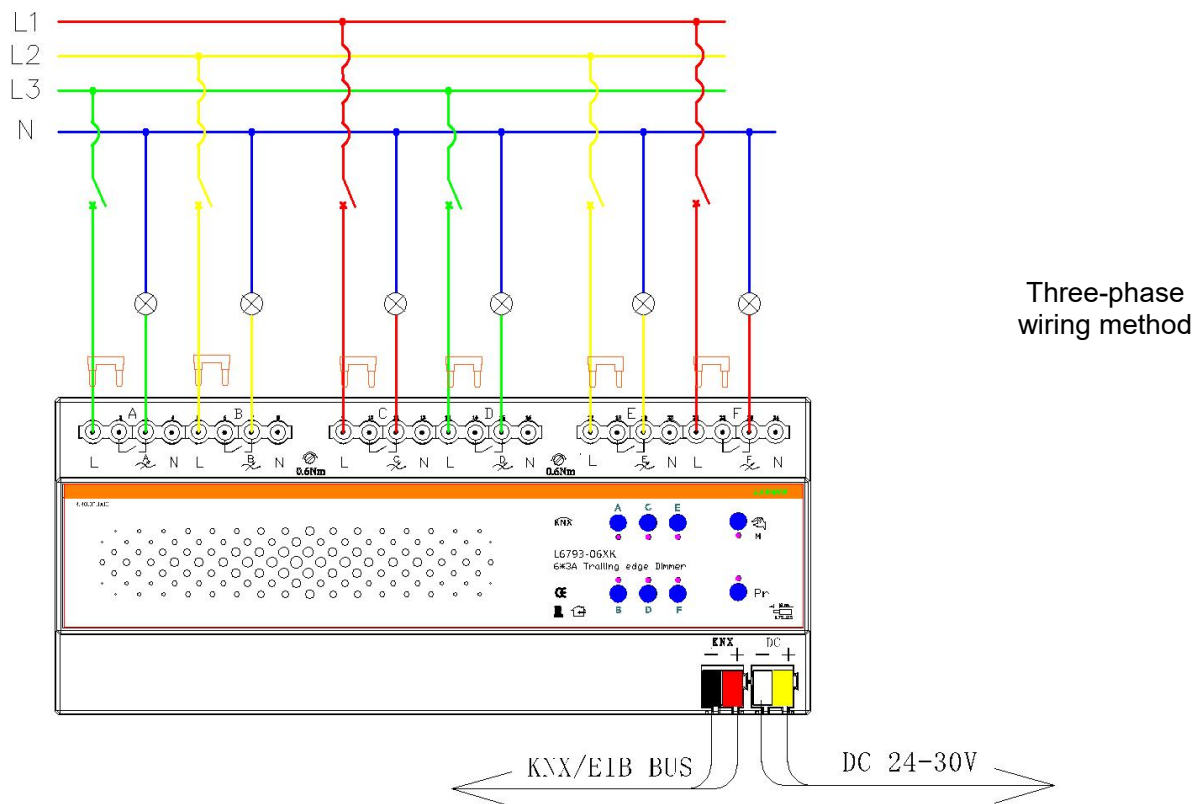
Wiring Diagram and Installations



- 1)A channel input L
- 2)Emergency jumper wire
- 3)A channel emergency jumper terminal
- 4)A channel output terminal
- 5)N line transfer terminal
- 6)B channel wiring
- 7)A channel manual button
- 8)B channel manual button
- 9)Manual-automatic conversion button
- 10)KNX program download button
- 11)Auxiliary working power
- 12)KNX wiring terminal

- Press 9 to switch mode manual or automatic mode
- In manual mode, briefly press buttons 7, 8, and the light will cycle through dimming from 0% to 50% to 100% and maintain the current dimming level.
- Briefly press button 9 or re-power the device to exit the manual mode.





Usage Guideline

- When there are multiple high-power dimmers in the distribution box, each dimmer's neutral line should be introduced into the neutral line panel separately, and should not be connected to the neutral line panel after being connected in series.
- According to the diagram, after the power is turned on, the indicator light will flash slowly, indicating that the power is working normally. Through ETS database, absolute brightness and relative dimming can be set.
- In case of emergency and detection, switch to manual mode by button (9). When switching to automatic mode, the indicator light of button (9) will be on, indicating that the current state is manual.
- In manual mode, short press the emergency manual/test button (7). At this time, the indicator light below the corresponding button (7) is lit, and the output brightness of A circuit will continue to cycle from (0-50%-100%-0); after stopping, the brightness will remain.
- Short press button (9) or power off and power on the dimmer KNX bus, the dimmer will return to normal working state, that is, the output brightness will follow the KNX instruction to change.
- Each channel is equipped with an emergency jumper (2) that connects to the input L terminal (1) and the dimmer's emergency jumper terminal (3). The internal relay terminals of the dimmer are directly connected to the input L terminal (1). In this configuration, the internal dimming function is short-circuited by the emergency jumper, converting the circuit to direct control by the internal relay. This results in a circuit that only has on-off functionality.
- Before formal debugging or when the dimming part fails, the on-off control can be realized by connecting the emergency jumper.

Note: When the load power factor is lower than 0.95, the load power must be reduced accordingly.