

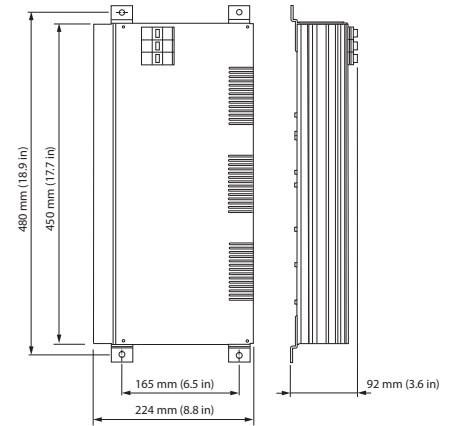


DTE310 Trailing Edge Dimmer Controller

Controls most types of dimmable electronic transformers

The DTE310 trailing edge dimmer controller features three channels, with a maximum load per channel of 10A. The trailing edge output makes this device suitable for control of both trailing and leading edge electronic transformers, as well as incandescent lamps and track lighting.

- Operates from three phase or single phase supply — Using a three phase supply when connected to a three circuit track permits the track to be loaded to maximum rating.
- Voltage regulation and soft start technologies — Protects lamps and extends life dramatically, minimizing re-lamping and ongoing maintenance requirements.
- Naturally ventilated — Integral ventilation in the housing of the unit means that no forced cooling is required, thereby reducing maintenance.
- Interface to other devices — Incorporates multipurpose programmable dry contact and analog inputs for interfacing to other devices.
- Internal controls — Programmable logic controller capable of comprehensive conditional and sequential logic and arithmetic function processing.
- Options available — Including earth leakage and overload protection on each channel, or three pole circuit breakers.



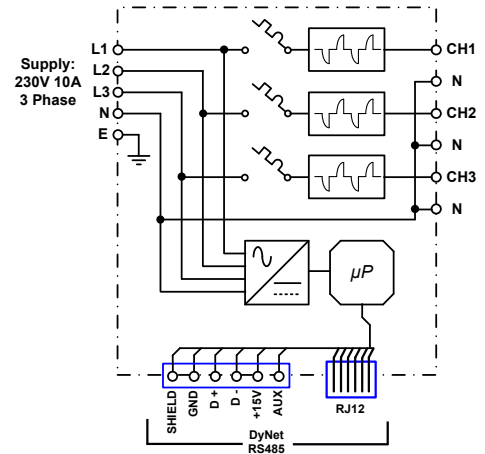
For detailed product information, please refer to the product information pages at www.philips.com/dynamalite and follow the links.

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

| Item | Specification | Details |
|---------------------|--|--|
| Electrical | Input Voltage | 230 V \pm 14% 50 / 60 Hz Single Phase @ 30 A or; 230 V \pm 14% 50 / 60 Hz 3 Phase Δ @ 10 A per phase |
| | DyNet DC Supply | 12 V @ 200 mA (supply for approx 10 user interfaces) |
| | Outputs | 3 x dimmed outputs trailing edge phase control @ 10 A |
| | Protection | 3 x 10 A 6 kA single pole thermal magnetic circuit breakers Internal inductive load detection Over-voltage / current detection |
| | Regulating Device | Dual MOSFETs - 47 A, 650V, 141 A surge |
| | Power Conditioning | Regulated outputs Over voltage protection Surge protection Brownout / Sag protection Spike protection Soft start 16 bit fade resolution (65,536 steps) Active phase angle firing compensation |
| Control | Control Inputs/Outputs | One DMX512 / RS-485 DyNet serial port One programmable dry contact AUX input Eight dry contact / 0-5V / 0-10V analogue inputs |
| | User Controls | Service override switch Diagnostic LED Hardware bypass switches for each channel |
| | Internal Controls | Programmable Logic Controller |
| | Preset Scenes | 170 |
| | Diagnostic Functions | Device online/offline status |
| Physical | Supply Terminals | L1, L2, L3 1 x 16 mm ² max conductor size |
| | Output Terminals | Line, Neutral for each channel 1 x 16 mm ² max conductor size Earth Link bar provided |
| | Dry Contact Terminals | 1 x 1 mm ² max conductor size |
| | Cooling System | Naturally ventilated, no forced cooling, no maintenance |
| | Dimensions (H x W x D) | 450 mm x 224 mm x 92 mm (17.7" x 8.8" x 3.6") |
| | Packed Weight | 6.0 kg |
| | Construction | Alloy / Steel wall mount case with epoxy finish |
| | Operating Conditions | Temperature: -0 to 40° C ambient Humidity: 0 to 95% non-condensing |
| Storage & Transport | Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing | |
| Certification | Certification | CE, C-Tick |
| Options & Ordering | Standard Product | DTE310 (Philips 12NC - 913703021009) |
| | 3 Pole cct breakers Earth leakage & overload protection on each channel | DTE310-3POLE (Philips 12NC - 913703021209) DTE310-RCBO (Philips 12NC - 913703021309) |

Electrical Diagram



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