PHILIPS
dynalite

Phase-Cut Dimmers

DTE1210

Trailing Edge Dimmer Controller

Controls a wide range of dimmable electronic transformers

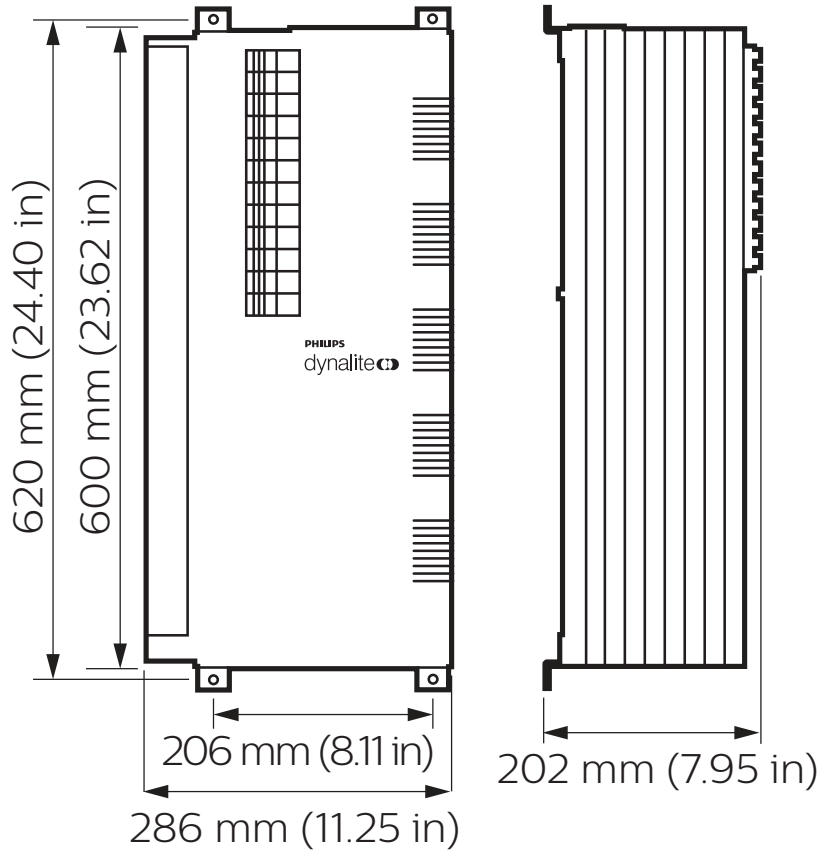
The Philips Dynalite DTE1210 trailing edge dimmer controller features 12 channels, with a maximum load per channel of 10 A and a total box load of 120 A. The trailing edge output makes the device suitable for control of electronic transformers, incandescent lamps and track lighting.

DTE1210

Controls a wide range of dimmable electronic transformers

- **Operates from three phase supply** – Using a three phase supply when connected to a three circuit track permits the track to be loaded to maximum rating.
- **Dual communication ports** – Enable direct DMX512 integration with theatrical systems
- **Voltage regulation and soft start technologies** – Protects lamps and extends life dramatically, minimizing lamp replacement 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, and three pole circuit breakers.

Dimensions



Specifications

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

DTE1210

Trailing Edge Dimmer Controller

Electrical

Supply Type	Single-phase Three-phase
Single-Phase Supply	230 VAC (±14%) @ 63 A
Three-Phase Supply	230 / 400 VAC (±14%) ⅄ @ 40 A/phase
Backup CPU Supply	12 VDC @ 1 A (SELV / Class 2)
Outputs	12 x trailing edge dimming
Output Channel Current	10 A
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	200 mA
Power Conditioning	Regulated outputs Overvoltage protection Surge protection Brownout / Sag protection Spike protection Soft start 16 bit fade resolution (65,536 steps) Active phase angle firing compensation Inappropriate load detection
Electrical Protection	12 x 10 A circuit breakers (single-pole thermal magnetic, 6 kA surge)
Regulating Device	Dual MOSFET (47 A, 650 V, 141 A surge)
IEC Overvoltage Category	III

Control

Serial Ports	1 x RS485 1 x DMX
Supported Protocols	DyNet DMX Rx
DMX Rx Channels	12
Dry Contact Inputs	1 (AUX)
Diagnostic Functions	Device online/offline status
User Controls	1 x service switch 12 x output channel override
Indicators	1 x service LED 3 x phase indicator LED

Physical

Dimensions (H x W x D)	600 x 286 x 202 mm (23.62 x 11.46 x 7.95 in)
Packed Weight	16.7 kg (36.82 lb)
Construction	Alloy/steel wall mount case Epoxy finish
Mains Cable Entry	4 x Ø 25 mm knockout on 133 x 44 mm removable gland plate
Data Cable Entry	1 x Ø 25 mm knockout
Serial Ports	2 x RJ12 1 x 6-way screw terminal 1 x 2-way screw terminal
Serial Port Conductor Size	2.5 mm^2 (#12 AWG) (max)
Supply Terminals	4 x screw terminal (Line 1, Line 2, Line 3, Neutral)
Supply Terminal Conductor Size	16 mm^2 (#6 AWG) (max)
Load Terminals	12 x 2-way screw terminal (Line, Neutral)
Load Terminal Conductor Size	16 mm^2 (#69 AWG) (max)
Earth Bar Terminals	14 x screw terminal
Earth Bar Terminal Conductor Size	2 x 16 mm^2 (#6 AWG) (max) 12 x 5mm^2 (#10 AWG) (max)

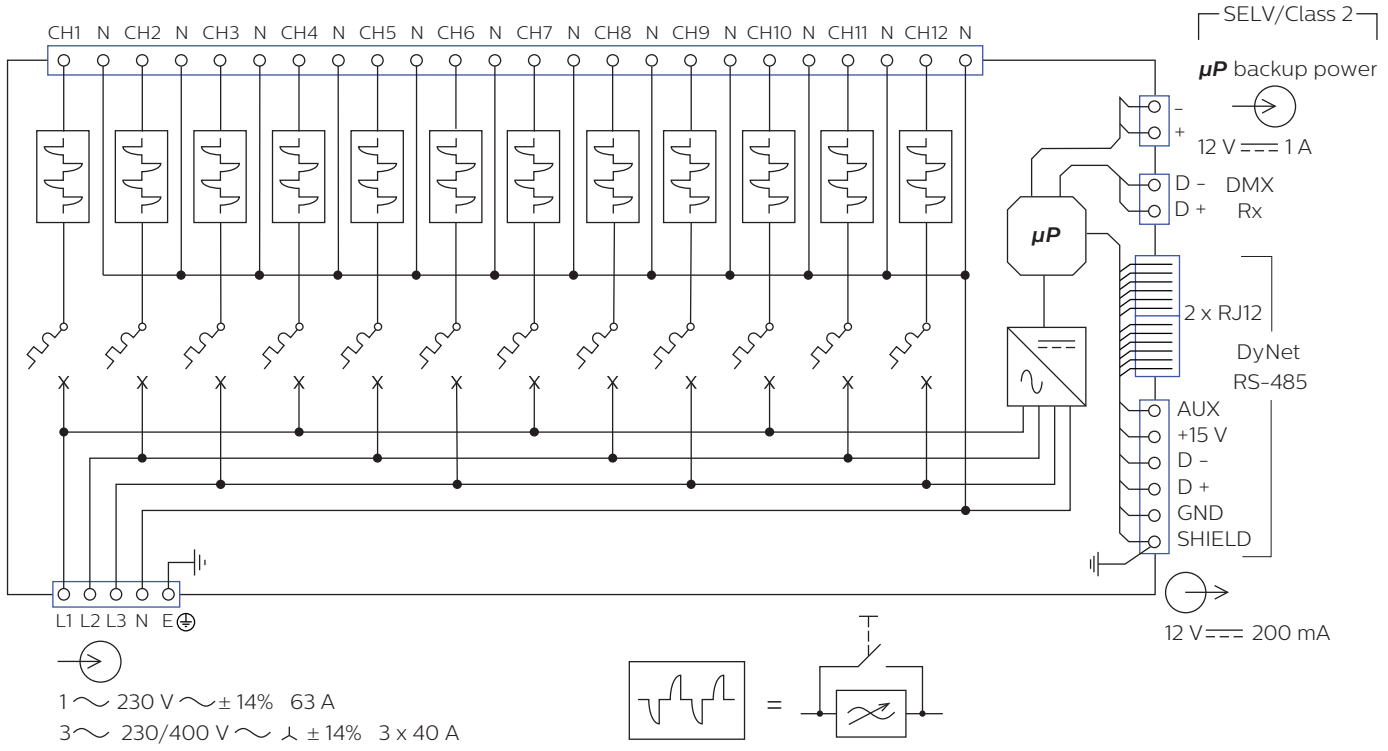
Environment

Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage/Transport Temperature	-25° to 70°C ambient (-13° to 158°F)
Humidity	0 to 90% non-condensing
IEC Pollution Degree	II

Compliance

Certification	CE, RCM, RoHS

Electrical



Ordering Code

Product	Philips 12NC
DTE1210 (Standard)	913703022009
DTE1210-RCBO (Earth leakage and overload protection)	913703022609
DTE1210-RCBO-3POLE (RCBO and 3-pole circuit protection)	913703021609

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