

PHILIPS

Dynalite

Relay Controllers

DDRC1220FR-GL
Relay Controller



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Robust control of switched loads

The Philips Dynalite DDRC1220FR-GL provides control of multiple types of switched loads. This general-purpose 12 channel controller supports switched loads of up to 20 A per channel, up to a maximum device load of 180 A.

Feed-through power circuit design: Electrically equivalent to a 12 pole contactor, with the added advantage of each pole being separately controllable via the DyNet network.

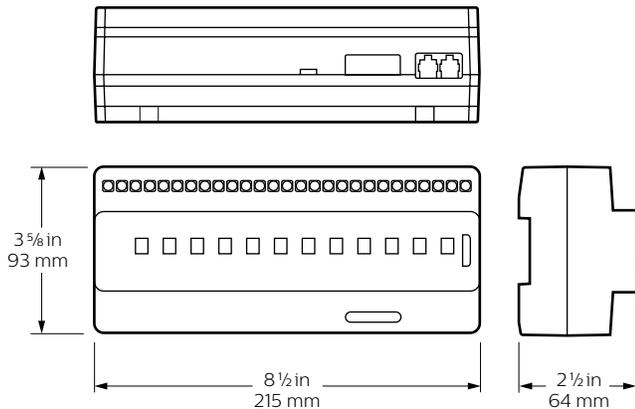
Flexible mounting solution: A DIN-rail mountable device, designed to be installed into the distribution board supplying power to the controlled circuit.

Inbuilt diagnostic functionality: Features circuit run time tracking on each channel and Device Online/Offline status indication.

Multiple wiring schemes supported: Controls single phase and neutral or three phase and neutral (star) wiring configurations.

Hardware override: Service override switch accessible from front panel.

Dimensions



Output Channel Ratings

Load Type	Maximum Rating per Output
	UL/cUL
General Use	16 A, 277 VAC
Incandescent	
Standard Ballast	
Electronic Ballast	16 A, 277 VAC
Motor	16 FLA** (1 HP), 120 VAC 14.5 FLA** (2 1/2 HP), 240 VAC 14.1 FLA** (3 HP), 277 VAC
Inrush Current	500 A

Ordering Code

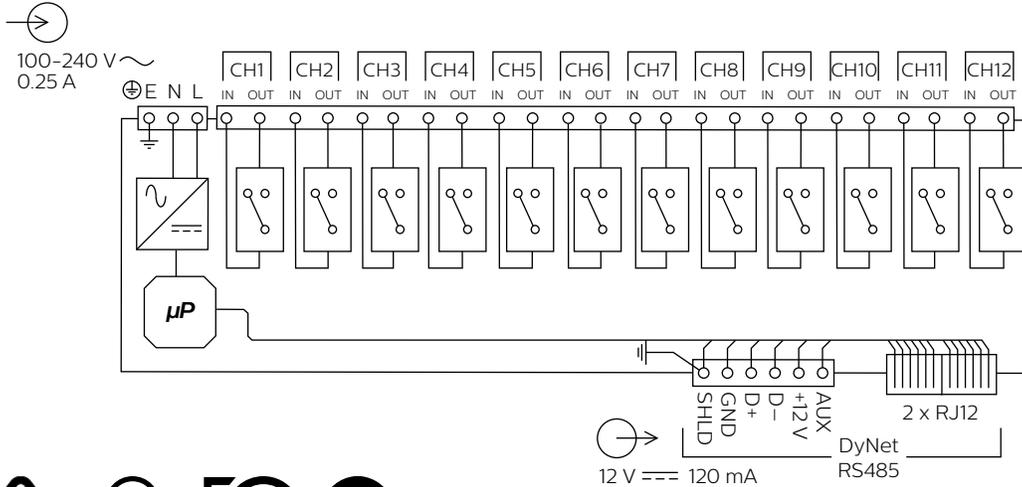
Product	Philips 12NC
DDRC1220FR-GL	913703243009

* Note Maximum Device Load and Maximum CH-CH Voltage on next page.
 ** FLA: Full Load Amps.

DDRC1220FR-GL Relay Controller

Dynalite – Robust control of switched loads

Electrical



Physical

Dimensions (H x W x D)	3.66 x 8.46 x 2.52 in (93 x 215 x 64 mm)
Packed Weight	1.1 lb (2.43 kg)
Construction	Polycarbonate DIN rail enclosure (12 unit)
Serial Ports	2 x RJ12 1 x 6-way screw terminal SHLD, GND, D+, D-, +12V, AUX
Serial Port Conductor Size	2.5 mm ² (#12 AWG) (max)
Supply Terminals	3 x screw terminal Line, Neutral, Earth
Supply Terminal Conductor Size	5 mm ² (#10 AWG) (max)
Output Terminals	12 x 2-way screw terminal Line In, Line Out
Output Terminal Conductor Size	5 mm ² (#10 AWG) (max)

Electrical

Supply Type	Single-phase
Supply Voltage	100-240 VAC
Supply Current	0.25 A
Outputs	12 x SPST feed-through relay with manual override
Output Channel Current	20 A (max)
Output Channel Ratings	(see first page)
Maximum CH-CH Voltage	300 VAC (UL) 400 VAC (CE)
Output Channel Ratings	(see first page)
Supported Wiring Schemes	Single Phase and Neutral Three Phase and Neutral (Star)
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	200 mA (supply for approx. 10 user interfaces)
Overvoltage Category	III

Environment

Operating temp	32° to 122°F ambient (0° to 50°C)
Storage/Transport temp	-13° to 158°F ambient (-25° to 70°C)
Humidity	0 to 90% non-condensing
IEC Pollution Degree	II

Control

Serial Ports	1 x RS485
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 Manual override switch for each channel
Indicators	1 x diagnostic LEDD

Compliance

Certification	CE, RCM, UL/cUL, FCC, ICES-003, RoHS
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Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008