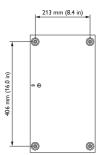
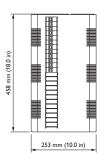


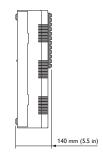
## DRC 1220GL Relay Controller Heavy-duty switching of lighting and non-lighting loads

The Philips Dynalite DRC1220GL is a 12 channel relay controller, featuring a maximum of load of 20A per channel and a total device load of 180A. It is used for switching both lighting and nonlighting loads.

- Minimize peak demand current In areas where it is beneficial to sequentially switch on large lighting loads, such as factories and indoor sporting arenas, the devices can be programmed to stagger the switching process.
- Service override switch Incorporated as standard, forces all channels to 100%.
- Inbuilt diagnostic functionality Features
  Device Online/Offline status indication.
- Internal controls Philips Dynalite
  accessory module enabled for optional
  additional functionality. Includes
  programmable logic controller capable of
  comprehensive conditional and sequential
  logic and arithmetic function processing.
- Options available Including an additional RS485 DyNet/DMX512 port or earth leakage and overload protection on each channel.







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

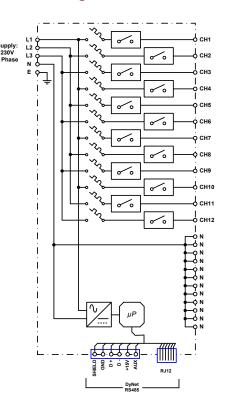


## **Specifications**

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

| Input Voltage   230 VAC ± 14% 50 / 60 Hz 3 Phase Å @ 63 A per phase  | Item          | Specification                      | Details  |
|--|---------------|------------------------------------|--|
| Electrical  Outputs    12 x switched outputs @ 20 A   Maximum device load is 180 A   | Electrical    | Input Voltage                      | 230 VAC ± 14% 50 / 60 Hz 3 Phase   |
| Protection   12 x 20 A 6 kA single pole thermal magnetic circuit breakers  |               | DyNet DC Supply                    | 12 V @ 200 mA (supply for approx 10 user interfaces)                           |
| Switching Device Relay 50 A, 230 VAC resistive (5000 W lighting load rated)  Control Inputs/Outputs One DMX512 / RS-485 DyNet serial port One programmable dry contact AUX input  User Controls Service override switch - all channels to 100% Diagnostic LED  Internal Controls Programmable Logic Controller  Preset Scenes 170  Diagnostic Functions Device online/offline status  Supply Terminals L1, L2, L3, 1 x 35 mm² maximum conductor size  Line for each channel 1 x 10 mm² maximum conductor size Neutral Link bar provided Earth Link bar provided  Earth Link bar provided  Amins - 4 x 25 mm dia. knockouts mounted on 100 mm x 50 mm removable gland plate  Data: 1 x 25 mm dia. knockout Outputs: 6 x 25 mm  Dimensions (H x W x D) Std: 458 mm x 253 mm x 140 mm (18.0" x 10.0" x 5.5")  -RCBO: 585 mm x 252 x 126 (23.0" x 9.9" x 5.0")  Packed Weight 10.25 kg  Construction Alloy / Steel wall-mount case with epoxy finish  Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport Temperature: -25 to 60° C ambient Humdity: 0 to 90% non-condensing  Certification Certification CE, C-Tick  Options & Ordering  Extra DyNet / DMX512 Port (-A) DRC1220GL (Philips 12NC 913703058709)  Earth leakage and overload   |               | Outputs                            | , –  |
| Control Inputs/Outputs  One DMXS12 / RS-485 DyNet serial port One programmable dry contact AUX input  User Controls  Service override switch - all channels to 100% Diagnostic LED  Internal Controls  Programmable Logic Controller Preset Scenes  170  Diagnostic Functions  Device online/offline status  Supply Terminals  L1, L2, L3, 1 x 35 mm² maximum conductor size  Line for each channel 1 x 10 mm² maximum conductor size Neutral Link bar provided Earth Link bar provided  Cable Entries  Physical  Dimensions (H x W x D)  Eached Weight  Construction  Alloy / Steel wall-mount case with epoxy finish Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Certification  C |               | Protection                         | $12 \times 20  \text{A}$ 6 kA single pole thermal magnetic circuit breakers    |
| Control Inputs/Outputs  One programmable dry contact AUX input  User Controls  Service override switch - all channels to 100% Diagnostic LED  Internal Controls  Preset Scenes  170  Diagnostic Functions  Device online/offline status  Supply Terminals  LI, L2, L3, 1 x 35 mm² maximum conductor size  Line for each channel 1 x 10 mm² maximum conductor size  Neutral Link bar provided Earth Link bar provided Earth Link bar provided Earth Link bar provided  Cable Entries  Physical  Dimensions (H x W x D)  Packed Weight  Construction  Alloy / Steel wall-mount case with epoxy finish  Coperating Conditions  Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport  Certification  Certi |               | Switching Device                   | Relay 50 A, 230 VAC resistive (5000 W lighting load rated)                     |
| Diagnostic LED   | Control       | Control Inputs/Outputs             | · ·  |
| Preset Scenes 170  Diagnostic Functions Device online/offline status  L1, L2, L3, 1 x 35 mm² maximum conductor size  Line for each channel 1 x 10 mm² maximum conductor size Neutral Link bar provided  Earth Link bar provided  Cable Entries Mains - 4 x 25 mm dia. knockouts mounted on 100 mm x 50 mm removable gland plate  Data: 1 x 25 mm dia. knockout  Outputs: 6 x 25 mm  Dimensions (H x W x D) Std: 458 mm x 253 mm x 140 mm (18.0" x 10.0" x 5.5")  Packed Weight 10.25 kg  Construction Alloy / Steel wall-mount case with epoxy finish  Operating Conditions Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport Temperature: -25 to 60° C ambient Humdity: 0 to 90% non-condensing  Certification Certification CE, C-Tick  Options & Ordering Extra DyNet / DMX512 Port (-A)  Earth leakage and overload  |               | User Controls                      |  |
| Diagnostic Functions  Device online/offline status  L1, L2, L3, 1 x 35 mm² maximum conductor size  Line for each channel 1 x 10 mm² maximum conductor size Neutral Link bar provided Earth Link bar provided Earth Link bar provided  Cable Entries  Mains - 4 x 25 mm dia. knockouts mounted on 100 mm x 50 mm removable gland plate Data: 1 x 25 mm dia. knockout Outputs: 6 x 25 mm  Dimensions (H x W x D)  Std: 458 mm x 253 mm x 140 mm (18.0" x 10.0" x 5.5") -RCBO: 585 mm x 252 x 126 (23.0" x 9.9" x 5.0")  Packed Weight  10.25 kg  Construction Alloy / Steel wall-mount case with epoxy finish Operating Conditions  Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Certification  Certification  Certification  Certification  CE, C-Tick  Standard Product  DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) Earth leakage and overload   |               | Internal Controls                  | Programmable Logic Controller  |
| Supply Terminals  L1, L2, L3, 1 x 35 mm² maximum conductor size  Line for each channel 1 x 10 mm² maximum conductor size Neutral Link bar provided Earth Link bar provided  Mains - 4 x 25 mm dia. knockouts mounted on 100 mm x 50 mm removable gland plate Data: 1 x 25 mm dia. knockout Outputs: 6 x 25 mm  Dimensions (H x W x D)  Std: 458 mm x 253 mm x 140 mm (18.0" x 10.0" x 5.5") -RCBO: 585 mm x 252 x 126 (23.0" x 9.9" x 5.0")  Packed Weight 10.25 kg Construction Alloy / Steel wall-mount case with epoxy finish Operating Conditions Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Certification Certification Certification Certification Certification Certification Certification Certification DRC1220GL (Philips 12NC 913703058709) Extra DyNet / DMX512 Port (-A) Earth leakage and overload  |               | Preset Scenes                      | 170  |
| Output Terminals  Line for each channel 1 x 10 mm² maximum conductor size Neutral Link bar provided Earth Link bar provided  Amains - 4 x 25 mm dia. knockouts mounted on 100 mm x 50 mm removable gland plate Data: 1 x 25 mm dia. knockout Outputs: 6 x 25 mm  Dimensions (H x W x D)  Std: 458 mm x 253 mm x 140 mm (18.0" x 10.0" x 5.5") -RCBO: 585 mm x 252 x 126 (23.0" x 9.9" x 5.0")  Packed Weight 10.25 kg Construction Alloy / Steel wall-mount case with epoxy finish Operating Conditions Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing  Certification Certification CEE, C-Tick Standard Product DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) Earth leakage and overload   |               | Diagnostic Functions               | Device online/offline status   |
| Output Terminals    I x 10 mm² maximum conductor size Neutral Link bar provided Earth Link bar provided  | Physical      | Supply Terminals                   | L1, L2, L3, 1 $\times$ 35 mm $^2$ maximum conductor size                       |
| Physical  Cable Entries  Cable Entries  Data: I x 25 mm dia. knockout Outputs: 6 x 25 mm  Dimensions (H x W x D)  Std: 458 mm x 253 mm x 140 mm (18.0" x 10.0" x 5.5") -RCBO: 585 mm x 252 x 126 (23.0" x 9.9" x 5.0")  Packed Weight  10.25 kg  Construction  Alloy / Steel wall-mount case with epoxy finish  Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport  Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing  Certification  Certification  Certification  Certification  CE, C-Tick  Standard Product  DRC1220GL (Philips 12NC 913703058709)  Extra DyNet / DMX512 Port (-A) Earth leakage and overload   |               | Output Terminals                   | I x 10 mm² maximum conductor size<br>Neutral Link bar provided                 |
| Packed Weight 10.25 kg  Construction Alloy / Steel wall-mount case with epoxy finish  Operating Conditions Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport Temperature: -25 to 60° C ambient Humdity: 0 to 90% non-condensing  Certification Certification CE, C-Tick  Standard Product DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) DRC1220GL-A (Philips 12NC 913703058709)  Earth leakage and overload  |               | Cable Entries                      | mm removable gland plate  Data: I x 25 mm dia. knockout                        |
| Construction Alloy / Steel wall-mount case with epoxy finish  Operating Conditions Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing  Certification Certification CE, C-Tick Standard Product DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) Port (-A) Earth leakage and overload   |               | Dimensions $(H \times W \times D)$ | ` '  |
| Operating Conditions  Temperature: 0 to 50° C ambient Humdity: 0 to 95% non-condensing  Storage & Transport  Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing  Certification  Certification  Certification  CE, C-Tick  Standard Product  DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) Port (-A)  Earth leakage and overload   |               | Packed Weight                      | 10.25 kg   |
| Operating Conditions  Humdity: 0 to 95% non-condensing  Temperature: -25 to 60° C ambient Humidity: 0 to 90% non-condensing  Certification  Certification  CE, C-Tick  Standard Product  DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A)  Port (-A)  Earth leakage and overload  |               | Construction                       | Alloy / Steel wall-mount case with epoxy finish                                |
| Certification CE, C-Tick  Standard Product DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) DRC1220GL-A (Philips 12NC 913703058709)  Earth leakage and overload   |               | Operating Conditions               | ·  |
| Standard Product DRC1220GL (Philips 12NC 913703057909)  Extra DyNet / DMX512 Port (-A) DRC1220GL-A (Philips 12NC 913703058709)  Earth leakage and overload   |               | Storage & Transport                |  |
| Extra DyNet / DMX512 Options & Port (-A) DRC1220GL-A (Philips 12NC 913703058709)  Earth leakage and overload   | Certification | Certification                      | CE, C-Tick   |
| Options & Port (-A) DRC1220GL-A (Philips 12NC 913703058709)  Condering Earth leakage and overload  |               | Standard Product                   | DRC1220GL (Philips 12NC 913703057909)  |
| Earth leakage and overload   |               | ,                                  | DRC1220GL-A (Philips 12NC 913703058709)  |
| (-RCBO) Note: Necessitates larger enclosure  |               | protection on each channel         | DRC1220GL-RCBO (Philips 12NC 913703000609) Note: Necessitates larger enclosure |

## Electrical Diagram







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