



# DDRC-GRMS

Switching Room Controller

Compact switching controller for single room solutions

The Philips Dynalite DDRC-GRMS controller is a general room automation and energy management solution. This controller is completely self-contained and requires no external power supply, relays or processor.

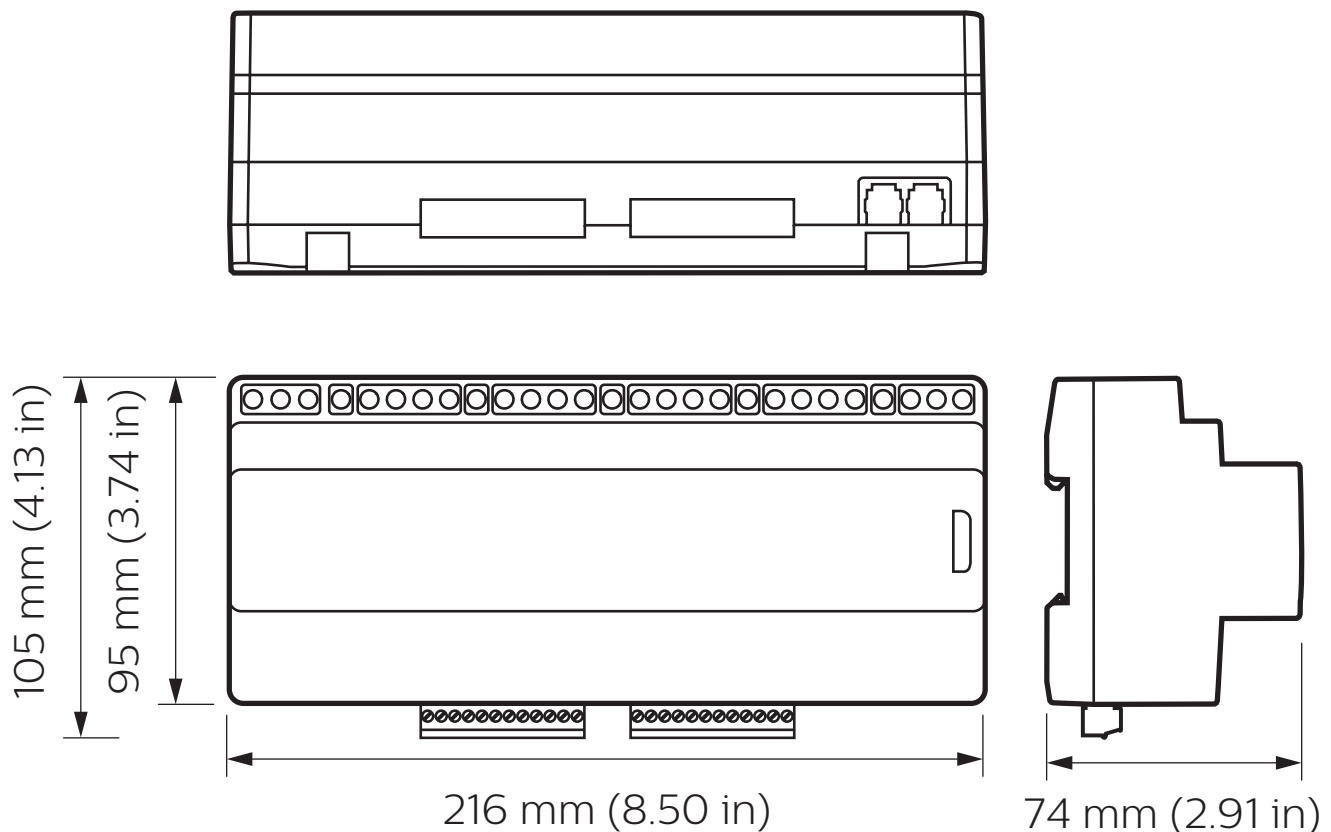
# DDRC-GRMS

## Compact switching controller for single room solutions

- **Dry contact inputs** – The unit receives instructions from button presses or a key card switch.
- **Pre-programmed** – No programming required as the unit is supplied with complex functions such as 'master on/off', 'room unoccupied', 'do not disturb' or 'make up room' already configured.
- **Built-in directional motor relays** – Provides control of motorized blinds for a full automation solution.
- **Two 16 A power relays** – Enables a total energy management solution, reducing standby power consumption by switching off power outlets and air conditioning systems when not required.
- **Up to nine switched channels** – Three groups of common-feed relays allow independent control of multiple lighting circuits and room status indicators.
- **Single box solution** – Provides an economical total energy management solution for hotel guest rooms and suites.

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## Dimensions



# Specifications

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



**DDRC-GRMS**  
Switching room controller

## Electrical

Supply Type	Single-phase
Supply Voltage	100-240 VAC
Supply Current	0.25 A
Outputs	13 x switched relays (See diagram below)
DyNet DC Output Voltage	12 VDC
DyNet DC Output Current	200 mA

## Control

Serial Ports	1 x RS485
Supported Protocols	DyNet
Dry Contact Inputs	18
Diagnostic Functions	Device online/offline status
User Controls	1 x service switch
Indicators	1 x service LED

## Relay Endurance

CH1 Mechanical	> 5 million cycles
CH1 Resistive Load	> 100,000 cycles
CH1 High Inrush Load	> 25,000 cycles
CH2 Mechanical	> 10 million cycles
CH2 Resistive Load	> 50,000 cycles
CH2 High Inrush Load	> 50,000 cycles (10 A rms / 100 A peak) > 100,000 cycles (5 A rms / 50 A peak)
CH3 Mechanical	> 1 million cycles
CH3 Resistive Load	> 100,000 cycles

## Physical

Dimensions (H x W x D)	105 x 216 x 74 mm (4.13 x 3.74 x 2.91 in)
Packed Weight	0.82 kg (1.81 lb)
Construction	Polycarbonate DIN-rail enclosure (12 unit)
Serial Ports	2 x RJ12
Supply Terminals	3 x screw terminal Line, Neutral, Earth
Supply Terminal Conductor Size	5 mm <sup>2</sup> (#10 AWG) (max)
Dry Contact Terminals	2 x 12-way pluggable screw terminal
Dry Contact Terminal Conductor Size	1.5 mm <sup>2</sup> (#16 AWG) (max)
Output Terminals	19 x screw terminal
Output Terminal Conductor Size	5 mm <sup>2</sup> (#10 AWG) (max)

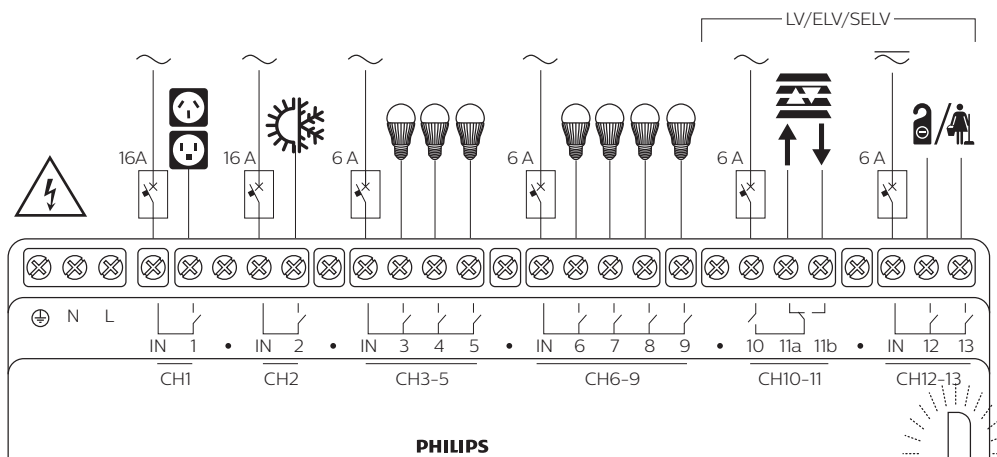
## Environment

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

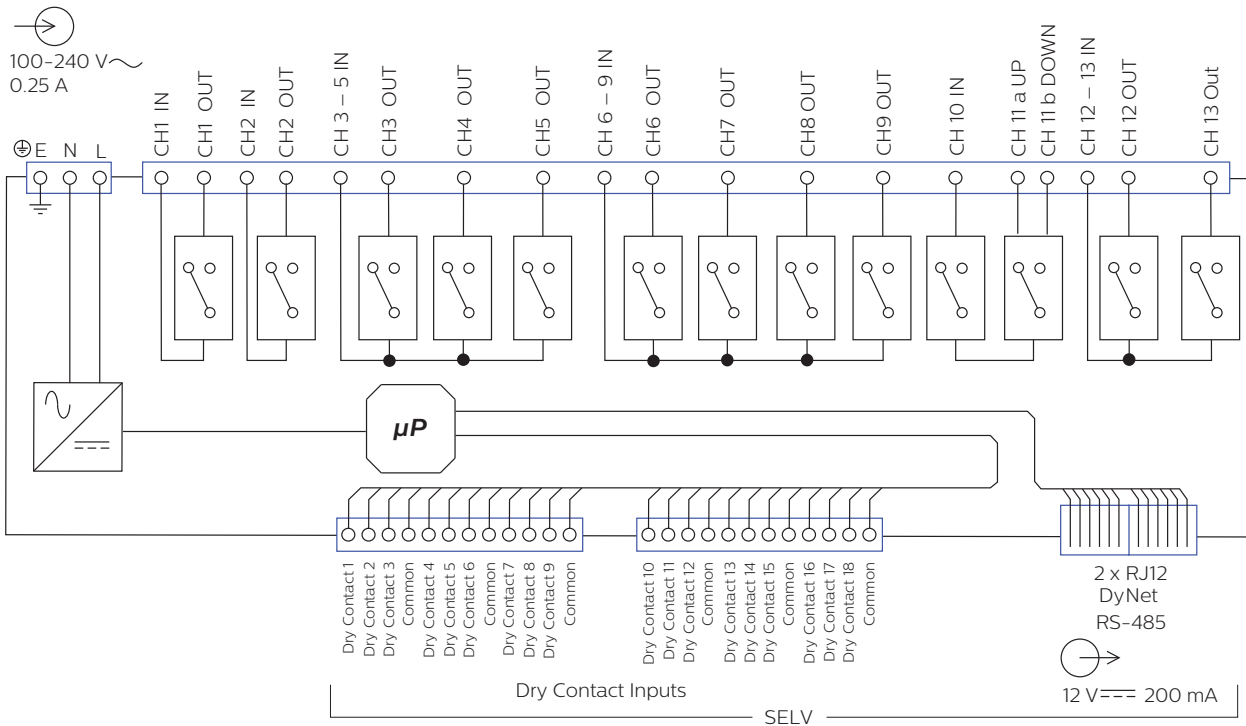
## Compliance

Certification	CE, RCM, RoHS
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## Example Output Diagram



# Electrical



## Output Channel Ratings

Load Type	Maximum Rating per Output*				
	CH1	CH2	CH3 - CH5 CH6 - CH9	CH10 - CH11	CH12 - CH13
General Use	16 A, 240 VAC	16 A, 240 VAC	4 A, 240 VAC	6 A, 240 VAC 0.5 A, 30 VDC	4 A, 240 VAC
Resistive				1 A, 30 VDC	1 A, 30 VDC
Incandescent	10 A, 120 VAC 5 A, 240 VAC	5 A, 240 VAC	4 A, 240 VAC	4 A, 240 VAC	4 A, 240 VAC
Electronic Ballast	3 A, 240 VAC	1 A, 120 VAC 0.5 A, 240 VAC	2 A, 120 VAC 0.8 A, 240 VAC	2 A, 120 VAC 0.8 A, 240 VAC	2 A, 120 VAC 0.8 A, 240 VAC
Motor		9.8 FLA (½ HP), 120 VAC 8 FLA (1 HP), 240 VAC		5.2 FLA (½ HP), 120 VAC 4.3 FLA (¾ HP), 240 VAC	
TV Rating	TV-8, 120 VAC	TV-5, 120 VAC	TV-8, 120 VAC		TV-8, 120 VAC
Inrush Current	165 A	100 A	60 A	60 A	60 A
Maximum Group Load	CH3-CH5 6 A	CH6-CH9 6 A	CH10-CH11 6 A	CH12-CH13 6 A	DEVICE 56 A

## Ordering Code

**Product**

DDRC-GRMS

**Philips 12NC**

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