



DRC-GRMS-UL

Switching Room Controller

Wall mount switching controller for single room solutions

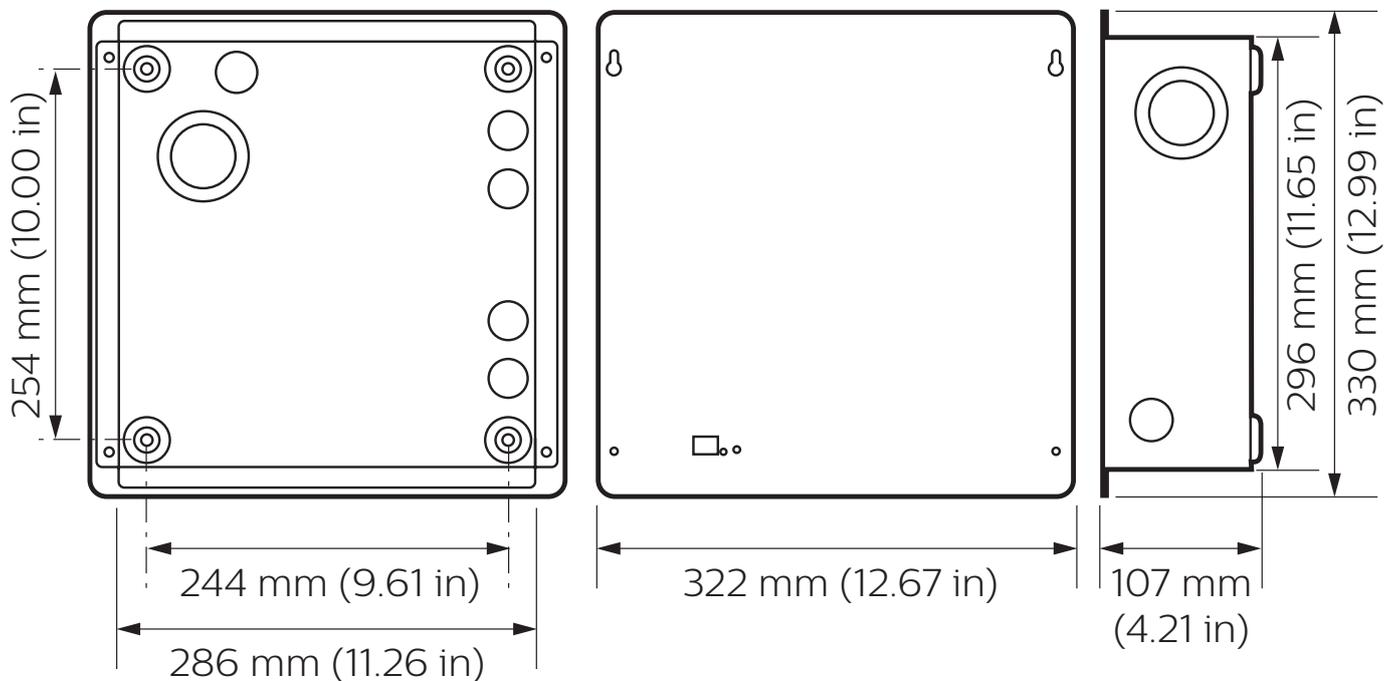
The Philips Dynalite DRC-GRMS-UL controller is a general room automation and energy management solution. This controller is completely self-contained and requires no external power supply, relays or processor. This model is suitable for use in UL markets.

DRC-GRMS-UL

Wall mount 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.
- **UL924 input** – Suitable for use with emergency lighting circuits.
- **Single box solution** – Provides an economical total energy management solution.
- **Built-in sequential logic functionality** – Allows intelligent responses to programmed triggers.

Dimensions



Specifications

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



DRC-GRMS-UL
Switching Room Controller

Electrical

Supply Type	Single-phase
Supply Voltage	100-277 VAC
Supply Current	0.7 A
Outputs	14 x switched relays (See Page 4)
Output Channel Ratings	(See Page 5)
Maximum Group Load (CH3-CH6, CH7-CH10, CH13-CH14)	16 A
Maximum Device Load	56 A
DyNet DC Output Voltage	12/24 VDC
DyNet DC Output Current	200 mA (supply for approximately 10 user interfaces)

Control

Serial Ports	1 x RS485
Supported Protocols	DyNet
Dry Contact Inputs	18
UL924 Inputs	1
Dry Contact Outputs	3
Diagnostic Functions	Device online/offline status
User Controls	1 x service switch
Indicators	1 x service LED

Physical

Dimensions (H x W x D)	330 x 322 x 107 mm (12.99 x 12.67 x 4.21 in)
Packed Weight	3.6 kg (7.94 lb)
Construction	Galvanized steel enclosure Powder-coated front cover
Supply Terminals	2 x screw terminal Line, Neutral
Supply Terminal Conductor Size*	5 mm ² (#10 AWG) (max)
Output Terminals	22 x screw terminal
Output Terminal Conductor Size*	5 mm ² (#10 AWG) (max)
Earth Bar Terminals	14 x screw terminal
Earth Bar Terminal Conductor Size	5 mm ² (#10 AWG) (max)
Dry Contact Input Terminals	2 x 12-way pluggable screw terminal
Dry Contact Input Terminal Conductor Size	1.5 mm ² (#16 AWG) (max)
UL924 Input Terminals	2-way pluggable screw terminal
UL924 Input Terminal Conductor Size	1.5 mm ² (#16 AWG) (max)
Serial Port Terminals	5-way pluggable screw terminal 3 x RJ45
Serial Port Terminal Conductor Size	2.5 mm ² (#12 AWG) (max)
Dry Contact Output Terminals	6-way pluggable screw terminal
Dry Contact Output Terminal Conductor Size	2.5 mm ² (#12 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

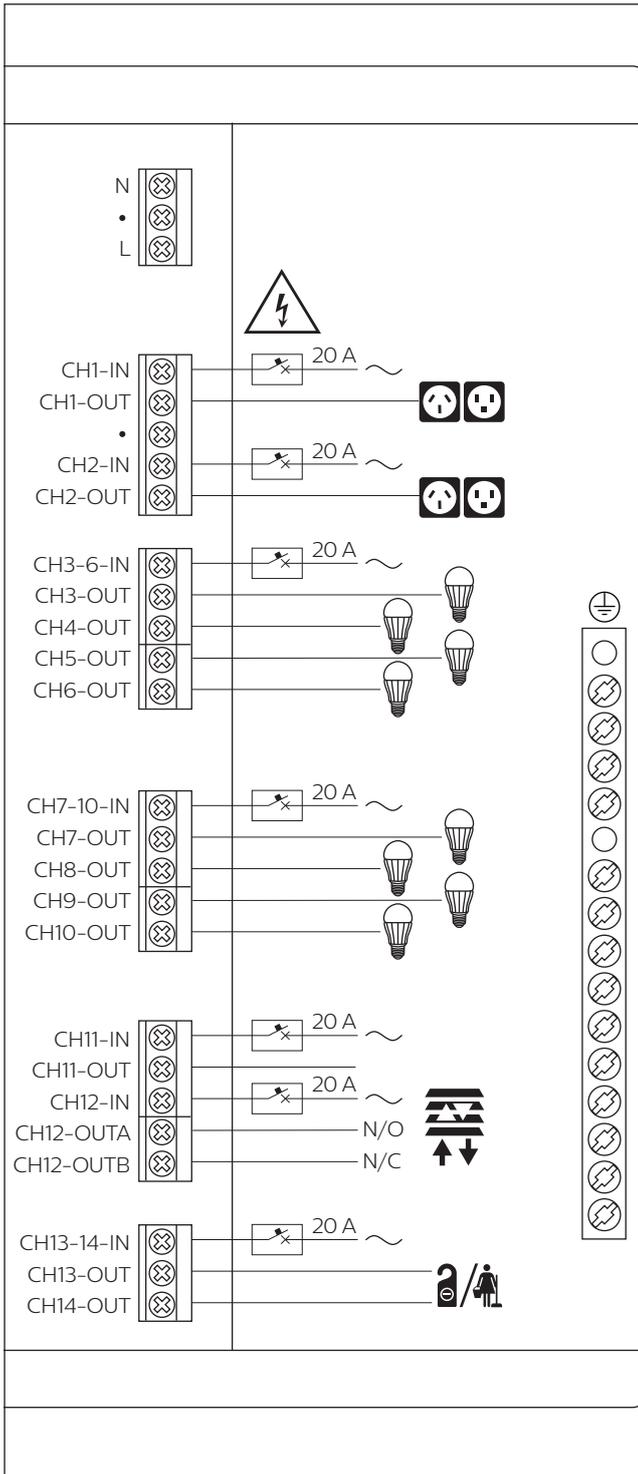
Compliance

Certification	CE, RCM, UL./cUL, FCC, ICES-003, RoHS
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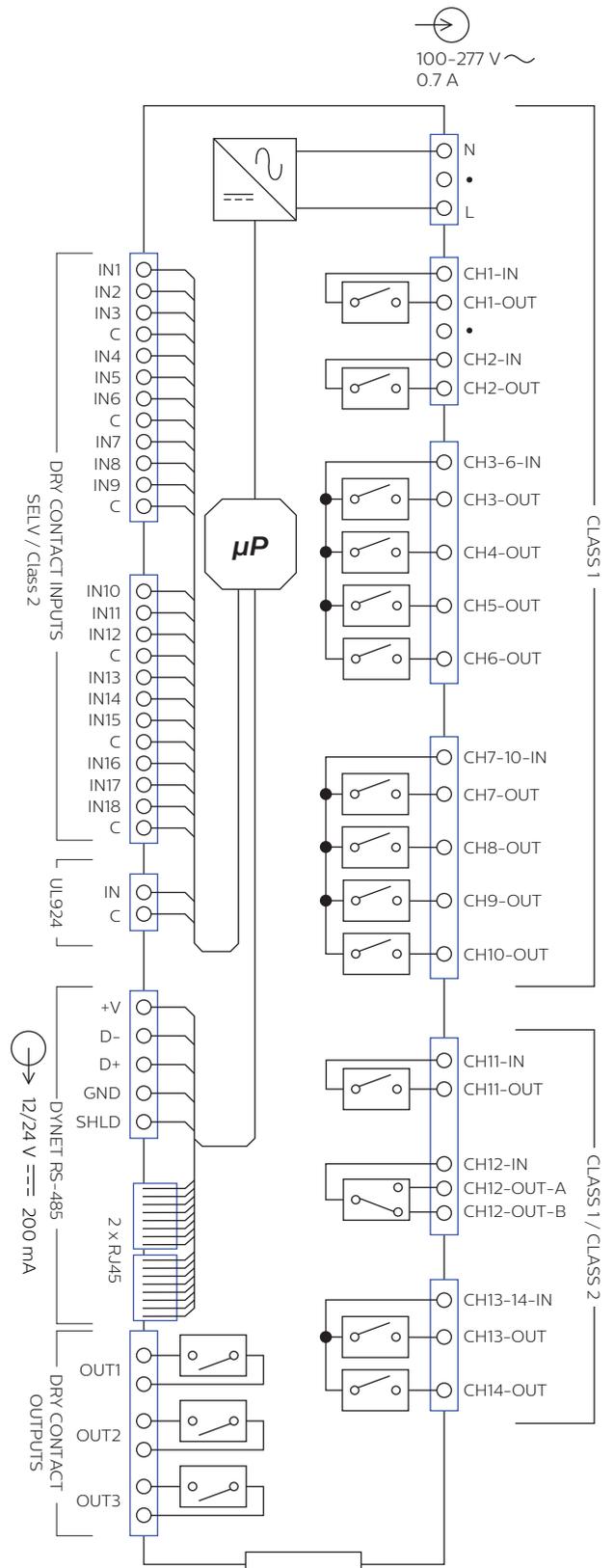
* Copper conductors only, 75°C rated minimum



Example Output Diagram



Electrical



Output Channel Ratings

Load Type	Maximum Rating per Output*				
	CH1 CH2 CH3 - CH6 CH7 - CH10	CH11	CH12	CH13 - CH14	OUT1 - OUT3
General Use	16 A, 277 VAC	16 A, 277 VAC	16 A, 277 VAC (N/O) 4 A, 250 VAC (N/C)	16 A, 277 VAC	1 A, 30 VAC/VDC
Resistive		1 A, 30 VDC	1 A, 30 VDC	1 A, 30 VDC	
Incandescent	10 A, 120 VAC 4.3 A, 277 VAC		4 A, 240 VAC	10 A, 120 VAC 4.3 A, 277 VAC	
Electronic Ballast	5 A, 120 VAC 3 A, 277 VAC		2 A, 120 VAC 0.8 A, 240 VAC	5 A, 120 VAC 3 A, 277 VAC	
Motor		9.8 FLA (½ HP), 120 VAC 8 FLA (1 HP), 240 VAC	9.8 FLA (½ HP), 120 VAC (N/O) 8 FLA (1 HP), 240 VAC (N/O)		
TV Rating	TV-8, 120 VAC	TV-5, 120 VAC	TV-5, 120 VAC	TV-8, 120 VAC	
Inrush Current	165 A	100 A	100 A	165 A	
Maximum Group Load	CH3 - CH6 16 A	CH7 -CH10 16 A	CH13-CH14 16 A	DEVICE 112 A	

Ordering Code

Product	Philips 12NC
DRC-GRMS-UL	913703331109



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