

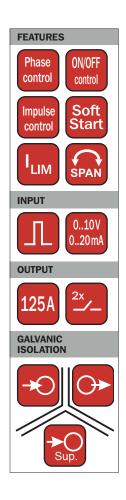
**DATASHEET** 

**ENGLISH** 

## **RPL1 Power Controller**

RS Stock number 9028111 / 9028120 / 9028123

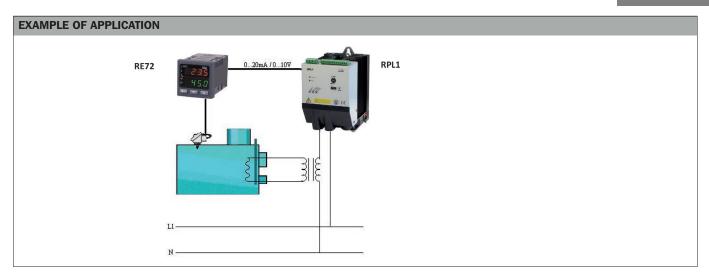




- For power control of resistive and resistive-inductive load (transformer connected to resistive load or to rectifier circuit).
- Control mode: on/off (similar to solid state relay), pulse, phase.
- Amplification of input control signal (SPAN).
- Limitation of load current.
- Overload protection.
- Signalization of exceeding the maximum temperature of radiator.
- Control of 3-phase load (requires two RPL1 controller units).



## **ENGLISH**



INPUTS					
Input type	Quantity	Range	Remarks		
Synchronizati on input	_	230 V a.c. – version RPL1-xx1xx 400 V a.c. – version RPL1-xx2xx 500 V a.c. – version RPL1-xx3xx	_		
Control voltage input	1	05 V 010 V	Rin = 20 k Ω Rin = 40 k Ω		
Control current input	1	0(4)20 mA	$Rin = 125 \Omega$		
Control pulse input	1	0/432 V	$Rin = 20 \text{ k } \Omega$		
STOP signal input 1	1	48 V	$Rin = 1 k \Omega$		
OUTPUTS					
Output type	Quantity	Range	Remarks		
Voltage (Master/Slave)	1	612 V	non stabilized		
Relay	2	NO	60 mA/350 V, Ron = 35 $\Omega$ , $U_{izol}$ = 1500 $V_{RMS}$		

ELECTRICAL PARAMETERS OF POWER CIRCUIT					
No.	Max. output current	Load supply voltage	Max. load	Lose power in thyristor	
1	25 A	230 V / 50 Hz 400 V / 50 Hz 500 V / 50 Hz	5.7 kW 10.0 kW 12.5 kW	< 40 W	
2	40 A	230 V / 50 Hz 400 V / 50 Hz 500 V / 50 Hz	9.2 kW 16.0 kW 20.0 kW	< 65 W	
3	70 A	230 V / 50 Hz 400 V / 50 Hz 500 V / 50 Hz	16.0 kW 28.0 kW 35.0 kW	< 120 W	
4	125 A	230 V / 50 Hz 400 V / 50 Hz 500 V / 50 Hz	28.0 kW 50.0 kW 62.0 kW	< 215 W	

- Leakage current in the thyristor circuit: < 20 mA
- Load type: resistive or resistive-inductive (0.2 < cos < 1), compatible with the category of operational use AC-51 acc. to EN 60947-4-3

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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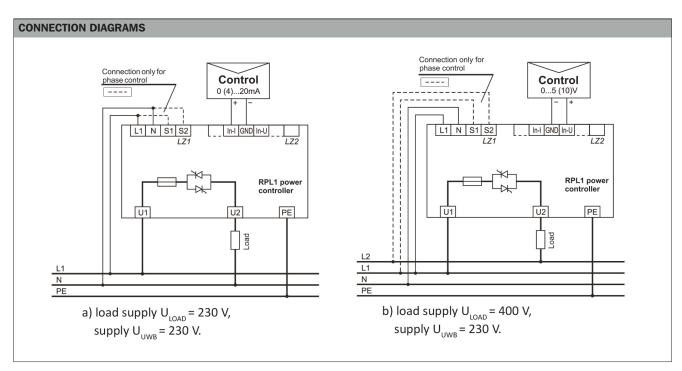
EXTERNAL FEATURES		
Overall dimensions 135 x 201 x 199 mm 135 x 231 x 199 mm - ver. RPL1-x4xx (version with a fan)		
Weight	4.5 kg 5.0 kg – ver. RPL1-x4xx (version with a fan)	

RATED OPERATING CONDITIONS				
Supply voltage N-L1	195 230 253 V a.c.			
Supply voltage frequency	50 Hz			
Power consumption	4.5 VA			
Temperature: ambient	0 40°C			
Temperature: storage	-2555			
Humidity	< 90 % , without condensation			
Operating position	vertical			

SAFETY AND COMPATIBILITY REQUIREMENTS					
Electromagnetic compatibility	noise immunity	acc. to EN 60947-4-3			
	noise emissions				
Pollution level	2				
Installation category	III				
Protection grade from terminal side	IP10 acc. to EN 60529				
Protection grade from casing side	IP20 acc. to EN 60529				
Noise immunity	EN 60947-4-3				
Maximal phase-to-earth voltage	320 V for power circuits and supply, 50 V for other circuits				

Power controller RPL1 meets the requirements of the norm EN 60947-4-3.

**Caution:** In the case of phase control, the controller meets the requirements of electromagnetic compatibility in terms of noise emissions, only when working near the transition of the supply voltage across zero.



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