

OPTIM 1

Regulated capacitors



Description

The regulated capacitors of the **OPTIM 1 / OPTIM 1A** series are power factor compensation units operated by a computer one reactive relay.

Application

Their simple installation, high-technology and robustness make **OPTIM 1** and **OPTIM 1A** regulated capacitors an ideal compact unit for compensating reactive energy in low power installations or loads where the load levels are not subject to major fluctuations such as:

- Small businesses
- Restaurants
- Lifts
- Irrigation pumps
- etc.

Features

Electrical features

Operating voltage	400 V (other voltages: please ask)
Support voltage	440 V
Frequency	50 Hz (other voltages: please ask)
Capacity tolerance	-5%...+10%
Insulation level	3 kV at 50 Hz
Impulse test	15 kV, ray type wave 1.2/50 μs
Current transformer input	250 mA
Contacting operating voltage	230 V
Unit composed of	<ul style="list-style-type: none"> • CLZ capacitors • Appropriate contactors for capacitive currents • Circuit breaker protection • Computer One reactive relay
Residual discharge voltage	75 V / 3 minutes
Total losses	< 0.5 W / kvar
Overvoltage	<ul style="list-style-type: none"> • 10% 8 over 24 hours • 15% up to 15 minutes over 24 hours • 20% up to 5 minutes over 24 hours • 30% up to 1 minute over 24 hours

Environmental conditions

Class	D according to IEC-60831	
Temperature	Daily mean	45 °C
	Annual mean	35 °C
	Maximum	55 °C
	Minimum	-25 °C
Humidity	80% non-condensing	
Altitude	< 1000 m above sea level.	

Mechanical features

Enclosure material	Thermoplastic
Protection Degree	IP 21
Colour	RAL 7035 Grey

Assembly conditions

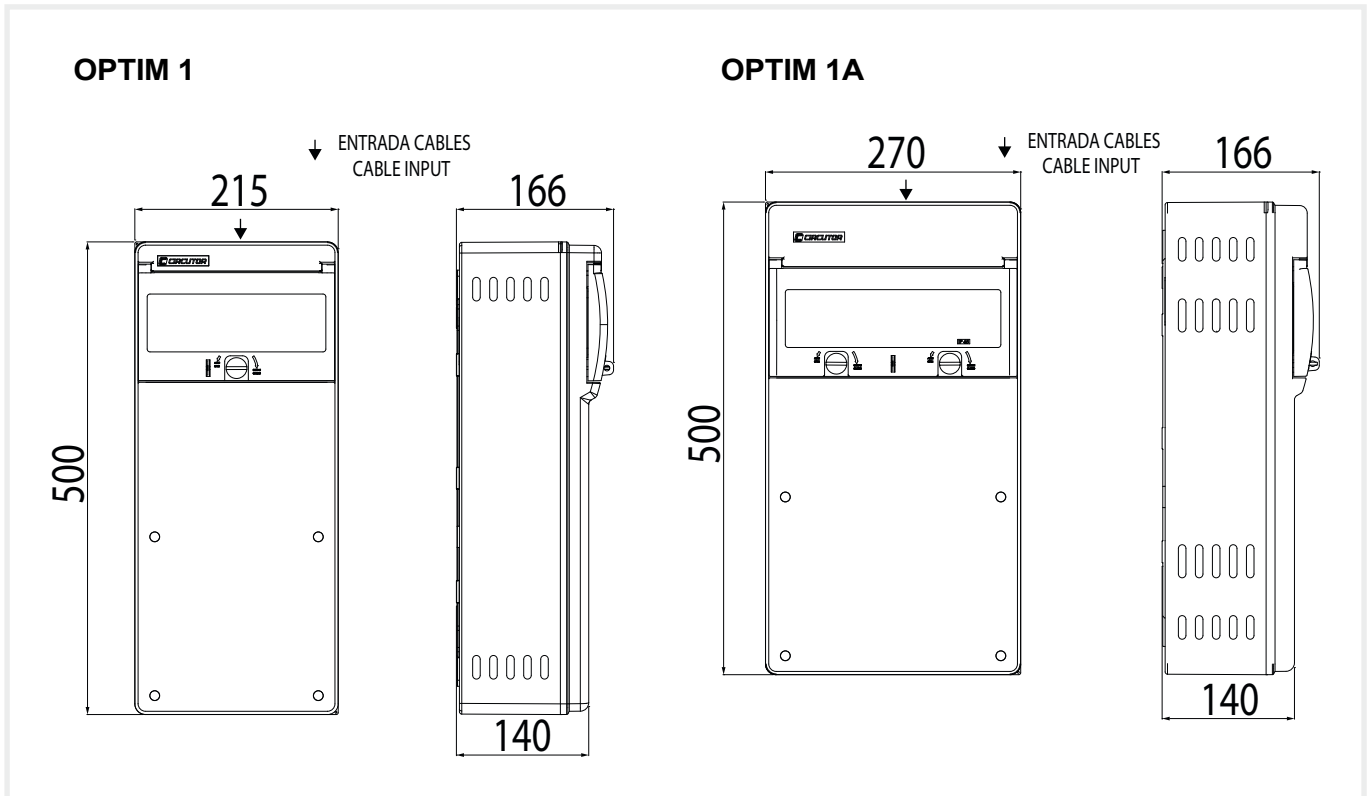
Type of assembly	Wall-mounted
Position	Vertical
Ventilation	Natural or forced, in accordance with options

Standards

IEC 60831-1, UNE 60831-1, IEC 61921, IEC 60439, IEC 61439

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**Dimensions****References**

kvar		Switch	Cable cross-section (mm ²)	Weight (kg)	Dimensions (mm) width x height x depth	Type	Code
440 V	400 V						
2.5	2	Included	6	4	215 x 500 x 140	OPTIM 1-2.5-440	R3Q631EN
5	4	Included	6	4.5	215 x 500 x 140	OPTIM 1-5-440	R3Q641EN
6.25	5	Included	6	5	215 x 500 x 140	OPTIM 1-6.25-440	R3Q651EN
10	8	Included	6	5	215 x 500 x 140	OPTIM 1-10-440	R3Q671EN
12.5	10	Included	6	5	215 x 500 x 140	OPTIM 1-12.5-440	R3Q681EN
15	12.5	Included	6	5	215 x 500 x 140	OPTIM 1-15-440	R3Q691EN
18.2	15	Included	6	6	270 x 500 x 140	OPTIM 1A-18.2-440	R3Q6E1EN
25	20	Included	10	7	270 x 500 x 140	OPTIM 1A-25-440	R3Q6F1EN
30	25	Included	10	7	270 x 500 x 140	OPTIM 1A-30-440	R3Q6D1EN