



SMART ONE

AUTOMATIC CAPACITOR BANK

CUSTOMER	
DATE	
REFERENCE	
REVIEW	Rev.0



9B Lakewood Blvd
Braeside VIC 3195 Australia

- **Power Semiconductors**
- **Electrical Measurement**
- **Process Control**

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1. CAPACITOR BANK GENERAL DESCRIPTION

Specially designed to improve reactive power in small installations: stores, neighboring communities, commercial facilities...

Indoor wall mounting and ventilated room. Inside cabinet temperature max. $\leq 55^{\circ}\text{C}$.

TECHNICAL CHARACTERISTICS CAPACITOR BANK	
Rated Power	100kVar @ 400VAC
Rated Voltage	230/400/440V. Other voltages upon request
Rated Frequency	50Hz/60Hz
Rated Current	According to power
Steps	Up to four steps
General dimensions	Height:610mm Width: 475mm Depth:215mm
Recommended connection	To define
Recommended protection	To define
Degree protection	IP 21
Color	RAL 1013
Mounting	Indoor
Cable entry	Left side top entry
External CT	Not included/Necessary
Standards	IEC 61921



TECHNICAL CHARACTERISTICS	
Rated Capacitance tolerance	-5%,+10%
Rated Frequency	50Hz
Temperature range	-25°C, +55°C
Dielectric losses	≤0.2W/kVAr
Total losses	≤0.45W/kVAr (without resistors)
Over voltage	1.15xUn
Over current	1.80xIn
Discharge resistance	Incorporated
Connection	Delta
Voltage test between terminals	2.15xUn 2sec.
Voltage test between terminals and case	5kV for 10sec. AC
Inrush current	Upto 250xIn
Protection	IP 20
Humidity	Max. 95%
Life expectancy	100.000h (Temp. type D) 120.000h /temp. type C)
Altitude	Max.4000 m.a.s.l.
Mounting position	Universal

- ✓ Suitable wiring per step.
- ✓ Power factor regulator. **PR-14D**. RTR Brand.



The PR-14D PF regulators measure $\cos\phi$ in a supply system and control the connection and disconnection of capacitors to obtain a target programmed value.

TECHNICAL CHARACTERISTICS	
Display	Liquid crystal display with backlight (4 digits)
Auxiliary supply	90 - 550V Ac
Wiring input	2 phases, 2 wires (L2L3)
Rated input voltage	50 - 520V AC (L2-L3)
Rated input current	5A AC (min 50mA, max 6A)
Burden	20mΩ
Frequency range	45 - 65Hz
Power consumption	Max. 15VA
Over temp. indication	☐ Symbol turns ON
Controlling range	target PF: 0.800 (ind.) to -0.800 (cap.) Switching program: Automatic
Alarm	Over temperature error E01: phase current error
Environmental conditions	Outdoor use Temperature-operating: 0 – 60°C Temperature-storage: -20 – 60°C Humidity: 0 – 95%
Mounting	Panel mounting
Dimensions	144x144x50 mm

✓ Direct contact protection.

✓ Natural ventilation.

3. RELATED DOCUMENTATION

- Drawings.
- Products certificates
- Maintenance Instructions.

* The images that appear in this document are orientative and not contractual.