



Technical Specification

- Load type:** Normal Resistance, Infrared Short, Medium and Long, Transformer Primary, Cold resistance, SiC and MoSi₂ heaters
- Inputs:** 4÷20mA, 0÷10V, SSR, with Modbus® RTU standard; and different Field Bus available
- Firing mode:** Half Cycle, Single Cycle, Burst Firing, Delayed Triggering, Phase Angle with or without Soft Start
- Control Mode:** Can be configured with feedback on Current, Voltage, Power or Open Loop mode
- Communication:** RS485 port, Modbus® RTU protocol and optional integrated fieldbus: Profibus® DP, Profinet® IO, Modbus® TCP, Ethernet® IP
- USB:** Integrated port for configuration in safety mode (no load and auxiliary voltage needed). Unit powered through USB
- Approvals:** Compliant with CE
- Dual Current Limit:** For peak and RMS value

Option

- Energy Totalizer
- Data Logging
- Bluetooth
- HB Alarm to diagnose partial or Total Load Failure and Thyristor Short Circuit
- Over-temperature alarm
- Available on some size: Fuse alarm signal (FUMS) and 2° thermal switch
- IP20 protection

Tools

- A very easy and Powerful Configurator Software is available Free of Charge on www.cdautomation.com
- CD Automation APP is also available free of charge to communicate via Bluetooth

General features

Operative voltage: 1000V +10% max -10% min

Utilization Category: AC-51

IP Code: 00 (IP20 on request)

Method of Connecting

1PH: Single Phase Load

2PH: Load in Delta, Load in Star

3PH: Load in Delta, Load in Star

Auxiliary voltage:

Order code RC____ - _1 = line voltage 100/120V transformer range 90:135V (8 VA Max)

Order code RC____ - _2 = line voltage 200/208/220/230/240V transformer range 180:265V (8 VA Max)

Relay output for Heater Break Alarm: 0.5A a 125VAC (only with HB option)

Input features

Digital Input: 4 ÷ 30Vdc 5mA Max (ON ≥4Vdc OFF <1Vdc) 0,5Hz max

Volt Analogic input: 0 ÷ 10Vdc impedance 15 kΩ

Current Analogic input: 0 ÷ 20mA impedance 100 Ω - 4 ÷ 20mA impedance 100 Ω

Potentiometer: 10 kΩ min.

Logic input SSR (Fast Enable): 4 ÷ 30Vdc 5mA Max (ON >4Vdc OFF <1Vdc) duty cycle min. 100 ms max 3Hz

Output features 1000V

Phases	Current (A)	Output Voltage range (Ue) (V)	Repetitive peak reverse voltage (Uimp) (1000V)	Latching current (mAeff)	Max peak one cycle (10msec.) (KA)	Leakage current (mAeff)	Frequency range (Hz)	Power loss Thyristor + Fuse I=Inom (W)	FANS (230Vac Standard) (115Vac Option)		
									N°	W	m3/h
1PH	900A	1000V	3600	700	20	300	47÷70	990	1	75	780
	1100A	1000V	3600	700	20	300	47÷70	990	1	75	780
2PH	900A	1000V	3600	700	20	300	47÷70	1980	2	150 (75 x 2 Fan)	1560 (780 x 2 Fan)
	1100A	1000V	3600	700	20	300	47÷70	1980	2	150 (75 x 2 Fan)	1560 (780 x 2 Fan)
3PH	900A	1000V	3600	700	20	300	47÷70	3000	3	225 (75 x 3 Fan)	2340 (780 x 3 Fan)
	1100A	1000V	3600	700	20	300	47÷70	3000	3	225 (75 x 3 Fan)	2340 (780 x 3 Fan)