

3-phase Thyristor Power Regulator

REOTRON MDW 700

Panel Mounting Version (IP 20)



- Switchable for phase-angle or burst-fire control up to 3 x 300 A
- Current, voltage or power regulation
- Interfaces: RS232, INTERBUS-S or PROFIBUS (Optional)
- Internal or external set-point source
- With integrated semiconductor fuses
- Effective value feedback: current, voltage or power
- LED display and keypad for setting up parameters

Applications:

- Industrial ovens
- Steam generators
- Lighting systems
- Infra-red dryers
- Pre-heating equipment
- Heating and ventilating equipment
- Heating tunnels

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REOTRON MDW series, three-phase, microprocessor controlled, thyristor regulators are suitable for resistive or resistive/inductive loads, especially those with a high R_{cold} / R_{warm} coefficient. Status relays indicate unit ready and fault conditions.

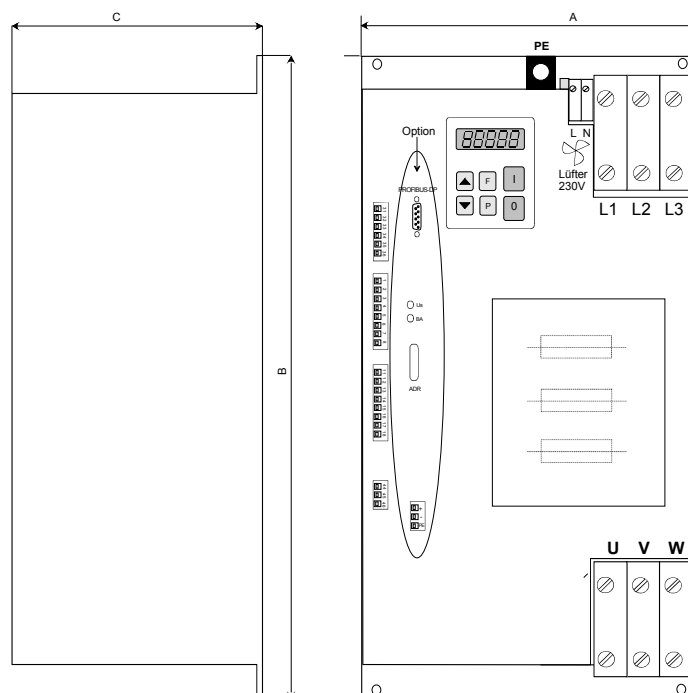
Depending on settings, the controller normally operates on the phase-angle principle (standard setting). It can also be used in a burst-fire mode. In phase-angle control mode the unit works as a current, voltage or power regulator. The proportional regulation adjustment is variable.

External set-point signals can be used for controlling current, voltage and power or potentiometers may be used instead. A serial RS232, INTERBUS-S or PROFIBUS-DP field bus interface can be used for remote adjustment. All unit settings can be made through the controller's front-panel, using a LED display and keypad.

Additional fan-assisted cooling is provided on units with current ratings higher than 50A.

Type REOTRON MDW 700	Supply Voltage [V]	Output Voltage [V]	Output Current [A]
MDW 700-10	3 x 230...400 ± 10 % 50/60 Hz	3 x 0...Ue-3 V	3 x 0...10
MDW 700-25			3 x 0...25
MDW 700-50			3 x 0...50
MDW 700-80			3 x 0...80
MDW 700-110			3 x 0...110
MDW 700-150			3 x 0...150
MDW 700-200			3 x 0...200
Load:	Resistive / resistive-inductive; with transformer load maximum inductance 1,45 Tesla		
Set point 1 & 2:	Internal using display external 0...+10 V, DC 0(4)...20 mA, potentiometer 10 kΩ		
Output 1 & 2 effective value:	Current and voltage 0...10 V, DC		
External effective value:	0...5 V, DC		
Regulator:	PI Regulation with adjustable P characteristic		
Enable:	24 V, DC or contact		
2 x status relays:	Changeover contacts 250 V, 1 A		
Operating temp.:	0...+ 45 °C		
Construction:	IP 20		

Type	a [mm]	b [mm]	c [mm]
MDW 10	160	290	205
MDW 25	160	290	205
MDW 50	255	320	205
MDW 80	255	320	205
MDW 110	255	430	210
MDW 200	255	430	210
MDW 300	255	430	210



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