

X10835

Commercial Catering Equipment | Catering Heater Controller



QVR-QVR/S-QLC

High Surge with 17A, 230v
Variable AC Regulator



CONTACT US:

☎ 0044 (0) 1704-516 501

✉ enquiries@united-automation.com

🌐 www.united-automation.com

KEY FEATURES:

- ✓ **Versatile Voltage Control:** These variable phase-angle regulators are robust, compact, and enclosed units designed for 230V up to 17A single-phase mains-driven loads. Enjoy fully adjustable voltage outputs ranging from 0-98%, catering to diverse applications.
- ✓ **High Inrush Current Handling:** The inclusion of a large TRIAC ensures the unit can expertly manage high inrush currents, providing a safety margin crucial for industrial installations.
- ✓ **Optional Extras for Front Panel Mounting:** Customize your setup with optional adhesive-backed silver labels and hairline knobs, simplifying front panel mounting for a streamlined appearance.

APPLICATIONS:

Ideal for a diverse range of applications, including:

- Ovens
- Fish & Chips Fryers
- Restaurants
- Hospitality Industry
- Quartz Lamps / Heat Lamps
- Moulder Machines
- Dryers
- Some Inductive Loads, e.g., Transformers and Motors.

VARIANTS:

- **QVR** – Non-Switched Potentiometer
- **QVR/S** – Switched Potentiometer
- **QLC** – 4-Positioned Switch Potentiometer

Discover unparalleled power control with our Voltage Regulators, meticulously designed to maintain voltage stability within a compatible range for your electrical components. Specifically crafted variable regulators for quartz lamps ensure precise control and stabilization of voltage supplied to lamps, optimizing performance in various applications.

Phase-Angle Regulators for Power Distribution Efficiency: In electrical power distribution systems, our phase-angle regulators shine. Correcting phase angle differences between parallel-connected electrical transmission systems, they expertly manage power flow. This ensures that each system operates at its maximum capacity, enhancing overall efficiency.

Guard Against Surges with High Surge Option: Experience ultimate protection with our regulators. A High Surge, a transient wave of current, voltage, or power, is effectively managed by our regulators, providing a robust defence in power systems. Safeguard your equipment against sub-cycle overvoltages with a duration of less than a half-cycle of the normal voltage waveform.

TECHNICAL SPECIFICATIONS

Maximum RMS on-state current	17A
Minimum Operating Current	200mA
Triac Limiting RMS on state Current	41A
Peak one cycle surge @ 20mS	400A
I ² t for fusing	112A ² s
Isolation voltage	2500V rms
Maximum recommended unit temperature	70°C
Maximum cable temperature	105°C
Maximum recommended unit load at 20°C ambient, (without extra heatsink)	10A
Maximum recommended unit load at 40°C ambient, (without extra heatsink)	5A
Mains supply +/-10%	230VAC
Mains Frequency	50/60Hz

*RMS = Root Mean Square



BMF House - Wight Moss Way,
Southport Business Park
Southport PR8 4HQ
ENGLAND

united automation unitedautomationltd UA_Limited



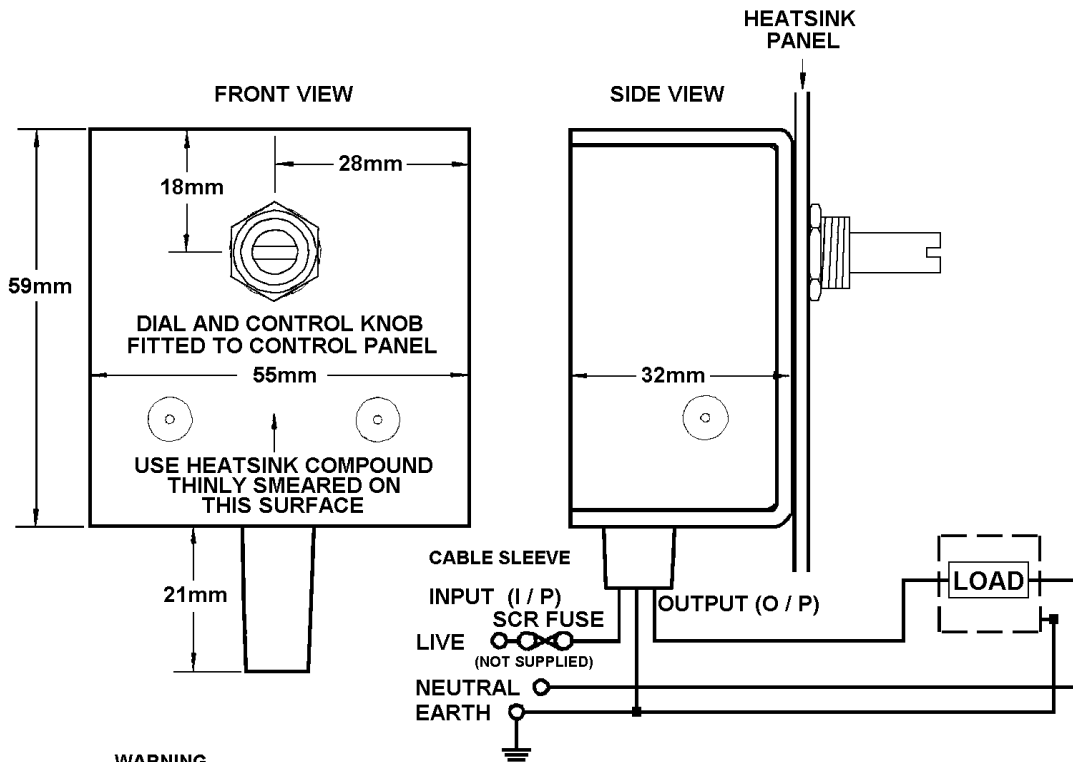
QVR – QVR/S – QLC

High Surge with 17A, 230v

Variable AC Regulator

INSTALLATION

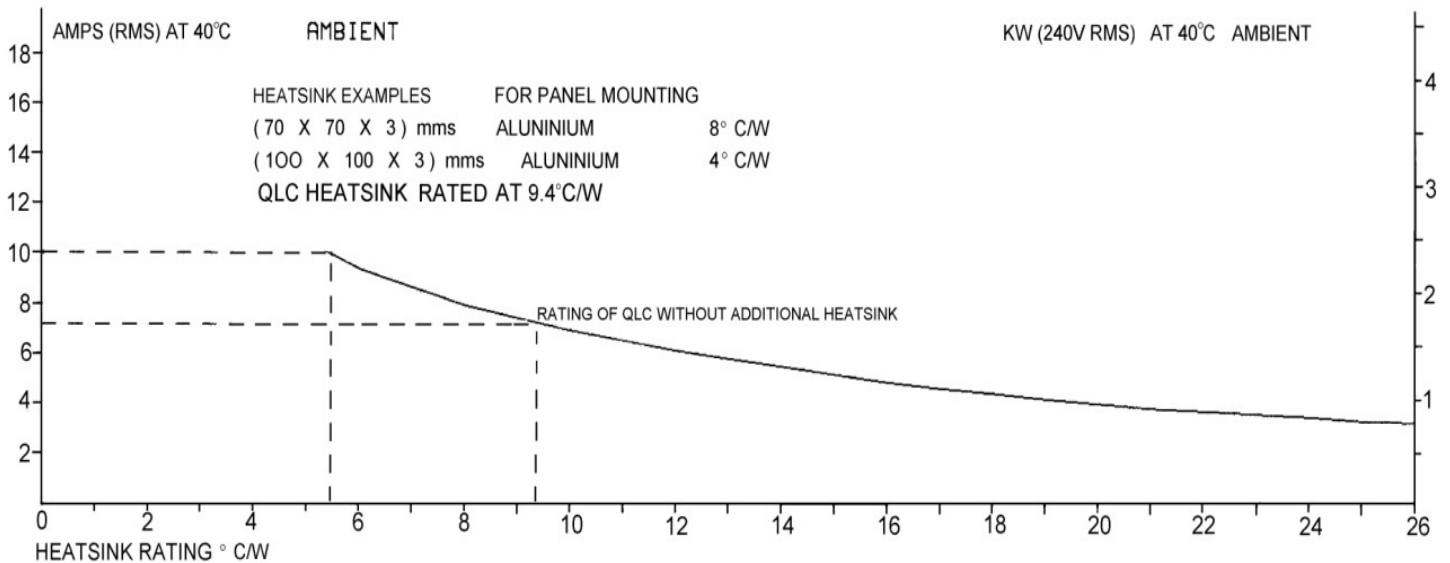
DIMENSIONS & CONNECTIONS



WARNING

LIVE TERMINALS - SWITCH OFF SUPPLY BEFORE COMMENCING ANY SERVICE WORK
 NOTE FOR HEATSINK PANEL MOUNTING:
 A 10mm HOLE IS REQUIRED TO ACCEPT MOUNTING BUSH
 USE HEATSINK COMPOUND FOR EFFECTIVE THERMAL COUPLING

INSTALLATION Cont. Stainless Steel typically 15 times less thermally conductive and mild Steel is typically 5 times less thermally conductive.



WITH HEATSINK RATING AS SPECIFIED THE MAXIMUM LOAD CURRENT CAN BE DETERMINED
 THIS IS THE MAXIMUM LOAD CURRENT POSSIBLE WITHOUT EXCEEDING THE DEVICE RATINGS



BMF House - Wight Moss Way,
 Southport Business Park
 Southport PR8 4HQ
 ENGLAND

united automation

unitedautomationltd UA_Limited



QVR – QVR/S – QLC

High Surge with 17A, 230v

Variable AC Regulator

SWITCHED CONFIGURATION (ONLY FOR QLC)

For 230 VAC	
POSITION	AC O/P LOADED VOLTS (RMS typical)
0	ZERO
1	173
2	193
3	SUPPLY

RECOMMENDATIONS

FUSING

It is recommended to use semiconductor (fast acting) type fuses or circuit breakers (Semiconductor - MCB) for unit protection. On initial switch on some loads may need an increased Factor of Safety (F of S) for unit and/or device protection. See SRA datasheet for information.

DOCUMENTS

Other documents available on request, which may be appropriate for your application:

Code	Identity	Description
X10229	RFI	Filter recommendations: Addressing the EMC Directive
X10213	ITA	Interaction: Uses for phase angle and for burst fire control
X10255	SRA	Safety Requirements: Addressing the Low Voltage Directive (LVD) including, Thermal Data/Cooling, Live Parts Warning, Earthing Requirements and Fusing Recommendations

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.T. regulations (BS7671) by suitably qualified/trained personnel. The regulations contain important requirements regarding the safety of electrical equipment. For International standards refer STANDARDS on D of C.

OPTIONAL EXTRAS

Product Code	Product Description
N30001	Control Knob RN-113B SCI
L60011	DIAL QVR TYPE
L60012	DIAL QLC TYPE
Z01062	Heatsink Compound Syringe (Must be applied while fitting)

PRODUCT CODE AND RELATED PRODUCT CODE

QVR

Product Code	Product Description
A12204E	Quartz Lamp Phase Angle 17A 230v High Surge Regulator

QVR/S

Product Code	Product Description
A13205E	Quartz Lamp Phase Angle 17A 230v High Surge Switched Regulator

QLC

Product Code	Product Description
A11206E	Quartz Lamp Phase Angle 17A 230v High Surge 3 Position Switched Regulator



BMF House - Wight Moss Way,
Southport Business Park
Southport PR8 4HQ
ENGLAND