

## Switchmode voltage regulator

### 2229



- AC/DC input voltage
- Adjustable output 5...24 VDC, max. 40 W
- Adjustable from external potentiometer
- Short-circuit protection
- Thermal overload protection
- Standard 11-pole relay socket



#### Advanced features

- The regulator is based on primary switchmode technology to achieve a high efficiency.
- The outputs are adjustable from a front potentiometer in the range 5...24 VDC or from an external potentiometer.

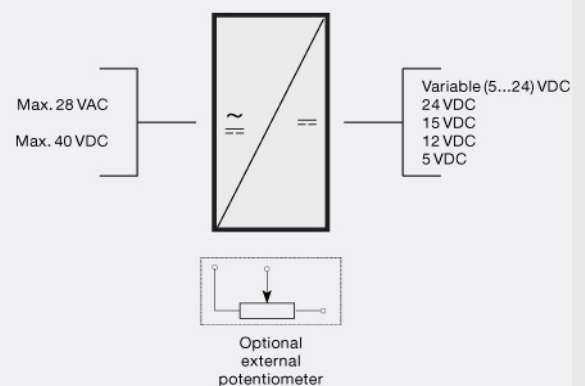
#### Application

- General voltage regulator for external transformer used in connection with measurement systems requiring fixed stabilized 24 VDC.
- Supply for any other sensors, transmitters or a general variable voltage regulator in the range 5...24 VDC.
- Used as a power efficient pre-regulator for 5 VDC linear regulator (e.g. from 32 V to 8 V).
- Used as adjustable power supply controlled from external potentiometer.

#### Technical characteristics

- A green LED indicates active output.
- AC or DC input voltages.
- A rectifier bridge allows free choice of polarity for the DC input.
- Mounting for a standard 11-pole socket which can be adapted for DIN rail or plate use with PR's 7023 adaptor and 7024 mounting keying.

#### Connections



**Order:**

Type	Version	Output
2229	AC or DC : A	Special (5...24 V) : 0
		24 VDC : 1
		15 VDC : 2
		12 VDC : 3
		5 VDC : 4

**Environmental Conditions**

Specifications range..... -20°C to +60°C  
 Relative humidity..... < 95% RH (non-cond.)  
 Protection degree..... IP30

**Mechanical specifications**

Dimensions (HxWxD)..... 80.5 x 35.5 x 84.5 mm (D is  
 without pins)  
 Weight approx..... 170 g

**Common specifications**

Internal consumption..... 10 W  
 Transient stability (10%-max.  
 load)..... < 250 mV  
 Temperature coefficient..... 0.05% / °C  
 EMC immunity influence..... < ±0.5%

**Input specifications**

Input voltage (AC)..... Max. 28 VAC  
 Input voltage (AC)..... Min. VAC = ( Vout. + 5 ) / 1.2  
 Input voltage (DC)..... Max. 40 VDC  
 Input voltage (DC)..... Min. VDC = ( Vout. + 5 )  
 Frequency..... 50...60 Hz

**Output specifications**

**Current output**  
 Current limit..... Typ. 5.8 A (short circuit)  
 Output voltage..... 4.5...26.4 VDC  
 Output power..... Max. 40 W  
 Output current..... Max. 2.5 A / 5 VDC  
 Output current..... Max. 2.5 A / 12 VDC  
 Output current..... Max. 2.5 A / 15 VDC  
 Output current..... Max. 1.7 A / 24 VDC  
 Load effect, (0-max. load)..... < 1.5% / A  
 Output ripple..... < 20 mVRMS

**Approvals**

EMC..... 2004/108/EC  
 EAC..... TR-CU 020/2011