

SRMV, SRMAC Single Relay Module

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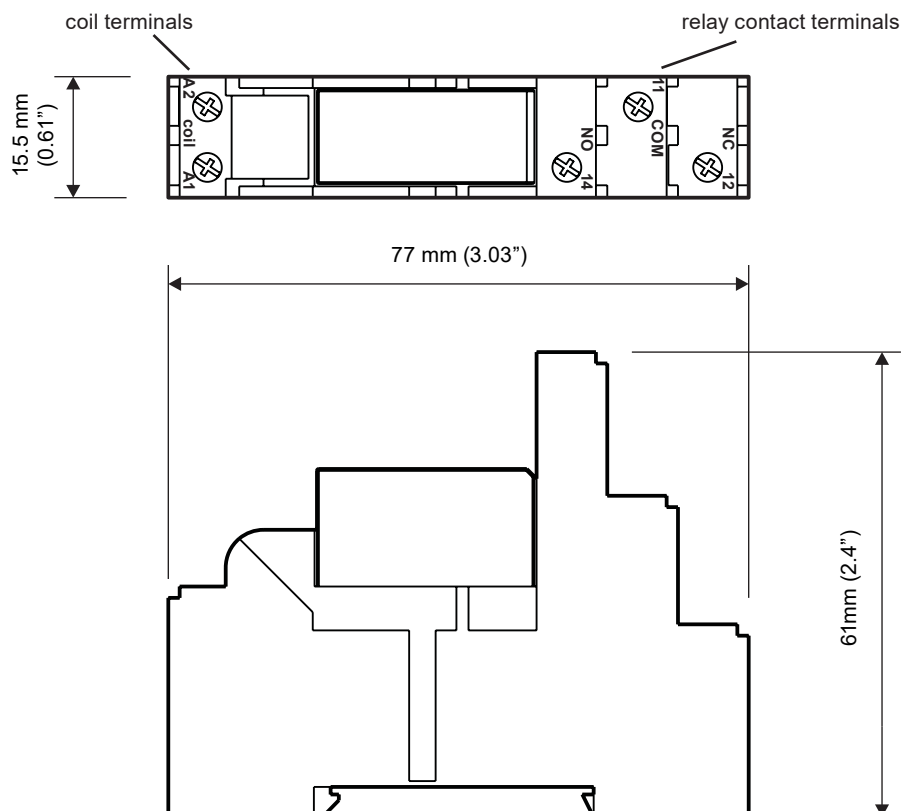
Description

The Single Relay Module enables a controller output signal to drive a single changeover relay. This allows plant of up to 8A at 240 Vac resistive to be switched by the relay contacts. The module may either be mounted on a DIN rail or on a flat surface. There are two versions: the SRMV accepts a 0 to 10 V signal, and the SRMAC accepts a 0 to 24 Vac signal (e.g. triac output).

Features

- SRMV converts a 10 Vdc analogue output signal to a 8 A relay output
- SRMAC converts a 24 Vac (triac) output signal to a 10 A relay output
- Can be mounted on a DIN rail or any flat surface

Physical



FUNCTIONALITY

Mechanical

The module is supplied with the relay plugged into the screw terminal socket. The socket can be mounted either by clipping onto a standard top hat DIN rail (DIN 46277-3, EN50022, BS5584:1987), or by screwing onto a flat surface.

Electrical

The screw terminals incorporate self lifting cable clamps and can accommodate two 2.5 mm² (11 AWG) wires.

The coil is polarity independent. The SRMV coil takes 17.5 mA (approximately) at 10 Vdc which is within all IQ2/3 series analogue output voltage channels' capability; the SRMAC takes 31.6 mA (ac) (approximately) at 24 Vac. The relay is a single pole changeover (SPDT - 1 form C).

INSTALLATION

The SRM should be mounted close to the IQ controller. For SRMV/USA the unit is UL rated as 'UL916 listed open energy management equipment accessory'.

Mount on DIN rail or screw onto flat surface.
If SRMV, connect analogue output channel to relay (polarity independent)
If SRMAC, connect triac output channel to relay (polarity independent)

If SRMV, link analogue output channel for voltage (V)
Connect relay output to HVAC equipment item to be controlled (NO or NC). Test installation

Ensure that external circuits are suitably protected against fault currents that would exceed the ratings for the switching circuits provided in this product.

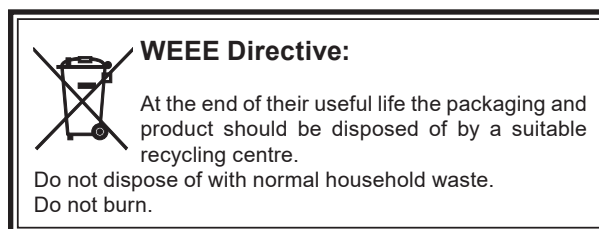
Full installation details are given in SRMV Installation Instructions 91-2853 or SRMAC Installation Instructions TG101985.

DISPOSAL

COSHH (Control of Substances Hazardous to Health - UK Government Regulations 2002) ASSESSMENT FOR DISPOSAL OF SRM. No parts affected.

RECYCLING

All plastic and metal parts are recyclable. The printed circuit board may be sent to any PCB recovery contractor to recover some of the components for any metals such as gold and silver.



ORDER CODES

SRMV	0 to 10 Vdc voltage driven relay (rated voltage 12 Vdc)
SRMAC	0 to 24 Vac voltage driven relay (rated voltage 24 Vac)

SPECIFICATION

ELECTRICAL

Coil Operation	
SRMV	:12Vdc nominal, at 576Ω (20°C) nominal, current 17.5mA (approx) at 10Vdc. Min operating voltage 9Vdc.
SRMAC	:24 Vac nominal, at 350 Ω (20 °C) nominal, current 31.6 mA (ac) nominal at 50 Hz. Min operating voltage 18 Vac.
Contact Rating	:Arc suppression recommended, see Relay Output Arc Suppression Installation Instructions (TG200208).
SRMV	:250 Vac at 8 A (resistive load), 5 A (inductive load, cos Ø >= 0.4); 20 Vdc at 8 A (resistive load); 24 Vdc at 2 A (inductive load T <= 30 ms). The UL rating applies to a load up to 30 V
SRMAC	:250 Vac at 10 A (resistive load), 6 A (inductive load, cos Ø >= 0.4); 20 Vdc at 10 A (resistive load); 24 Vdc at 2 A (inductive load T <= 30 ms).

MECHANICAL

Dimensions	:77 mm (3.03") x 15.5 mm (0.61") x 61 mm (2.4")
Weight	:45 g (1.58 ozs)
Mounting	:Module consists of relay in socket. Socket can be mounted on a flat surface or onto a DIN rail.
Terminals	:screw with self lifting cable clamp, can accommodate two 2.5 mm ² (11 AWG) wires, or two 1.5 mm ² (16 AWG) wires with bootlace crimp.
Contact Material	:AgNi (90/10)

ENVIRONMENT

Protection	:IP20 (socket)
Ambient Temperature	:-25 °C (-13 °F) to +85 °C (+185 °F)
UL	:The unit is UL rated (Canada & US)

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