

CROUZET SOLID STATE RELAYS - PANEL MOUNT PRODUCTS have been developed to offer all the advantages of electronic switching technology. The 21.4 mm mini puck industrial housing is quick to install. The product is compact and reliable. Please refer to the data sheet available on www.crouzet.com

AC OUTPUT

GNmini

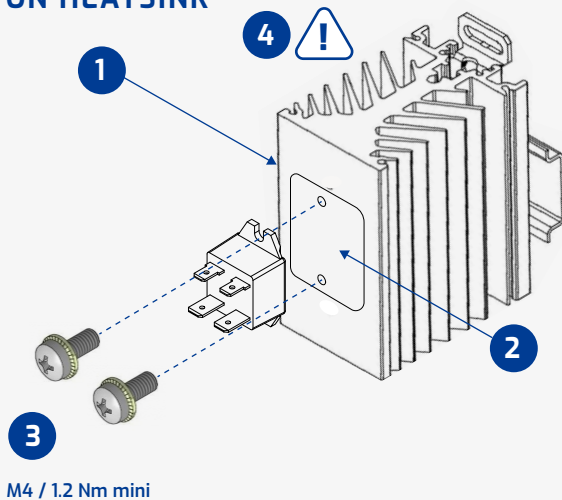


Panel mount - AC Output Single Phase

- 20 A in a miniature package for space-demanding applications
- Zero Cross Turn-On
- Easy-to-use: Fast-on connection
- cRUus, CE and UKCA Recognized

MOUNTING INSTRUCTIONS

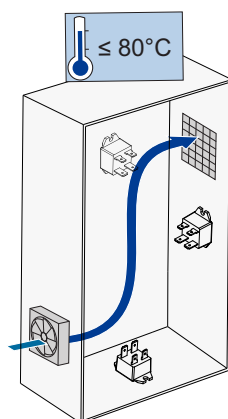
ON HEATSINK



1. Select the adequate heatsink (see thermal curves on product datasheet).
2. Use thermal pad or thermal grease between the SSR and heatsink (0.06 mm of thickness).
3. Two screws (Ø 4 mm) are needed to mount the SSR on the heatsink.
4. For optimal thermal performance heat sink fins should be oriented vertically to promote the perfect convection airflow.

MOUNTING ON PANEL

1. Before mounting the SSR, locate the panel section. The surface must provide adequate heat sinking capability - preferably aluminum, uncoated, flat and clean.
2. Recommended to use a thermal pad or thermal grease between the SSR and the panel.
3. SSR mounting slots have a diameter of 4 mm. Please use two screws to mount on the panel.
4. Be sure to tighten both screws until they contact the baseplate before applying full torque (1.2 Nm).



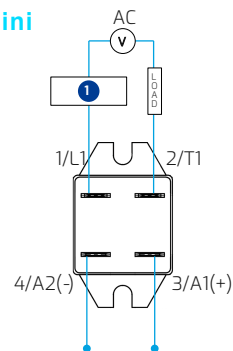
WARNING: The user should protect heat sensitive materials as well as people against any contact with the heatsink. For correct cooling, the SSR needs air convection. Less air convection produces an abnormal heating. In the event there is no space between two SSRs, reduce the load current. Forced cooling (ex. fan inside the cabinet) significantly improves the thermal performance. Heatsink temperature should never exceed 90 °C.

PART NUMBER NOMENCLATURE

	Channels	Layout	Switching Type	Output Current	Control Voltage	Generation
	8413	2	0	1	0	N
GNmini	8413: Single Phase	2: Mini Puck	0: Zero Cross	1: 20A	0: 4-30 V _{AC}	N: New


WIRING DIAGRAMS

GNmini




1. Protection Equipment

RECOMMENDED ACCESSORIES

TYPE	DESCRIPTION	P/N
 Thermal Grease Heatsink Mounting	Thermal Grease	26532003

IMPORTANT CONSIDERATIONS

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Crouzet for any consequences arising out of use of this manual. Be sure to use input and output voltage within operating ranges.

 **WARNING:** The product's side panels may be hot, allow the product to cool before touching. Please follow mounting instructions. Failure to follow these instructions can result in serious injury or equipment damage.

TRANSIENT VOLTAGE

In AC power lines, transient voltages are common and may pose a risk for the operation, load and reliability of the SSR. In Crouzet SSR, the transient protection can rise 1600 V (please refer to product datasheet).

User may also use external transient protection to the SSR for additional protection (please refer to product datasheet).

WARNING**RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE**

- Confirm that the product power supply voltage and its tolerances are compatible with those of the electrical network.
- The product's side panels may be hot, allow the product to cool before touching.
- Follow proper mounting instructions including torque values.
- Do not allow liquids or foreign objects to enter this product.

**DANGER****HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH**

Turn off power supply before working on this equipment.
Failure to follow these instructions can result in death, serious injury or equipment damage.