

GN0 & GN3 Series

MOUNTING INSTRUCTIONS

Please read all installation instructions before using your solid state relay.

- Choose one of the two mounting options and follow the instructions.

Mounting on Heat Sink

- Select adequate heat sink (see thermal derating curves).
- Be sure to use thermal pad or thermal compound between the SSR and the selected heat sink.
- The SSR mounting slots have a diameter of 0.2 in (5.0 mm). Four screws are needed (not included) to mount the SSR onto heat sink (See fig. 1). Choose screw length considering the mounting surface and that the baseplate thickness is 0.125 in (3.2 mm).

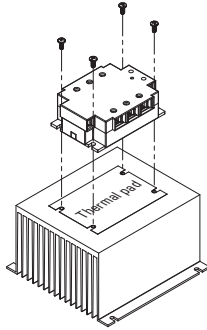


fig. 1 GN3 Series SSR mounted on HS053 heat sink

- Before applying full torque, tighten down all 4 screws until they contact the baseplate. Then, tighten them to 20 in-lb (2.2 Nm) starting with one immediately followed by the one in the diagonally opposite corner. After the first 2 screws are completely tightened, proceed tightening the remaining 2 screws.
- For optimal thermal performance heat sink fins should be oriented vertically to promote natural airflow.

Mounting on Panel

- Locate the panel section on which the SSR will be mounted. Panel mount surface must be clean, bare metal and provide adequate heat sinking capability.
- Be sure to use thermal pad or thermal compound between the SSR and the panel.
- The SSR mounting slots have a diameter of 0.2 in (5.0 mm). Four screws are needed (not included) to mount the SSC onto panel. Choose screw length considering the mounting surface and that the baseplate thickness is 0.125 in (3.2 mm).
- Before applying full torque, tighten down all 4 screws until they contact the baseplate. Then, tighten them to 20 in-lb (2.2 Nm) starting with one immediately followed by the one in the diagonally opposite corner. After the first 2 screws are completely tightened, proceed tightening the remaining 2 screws.

DERATING CURVES

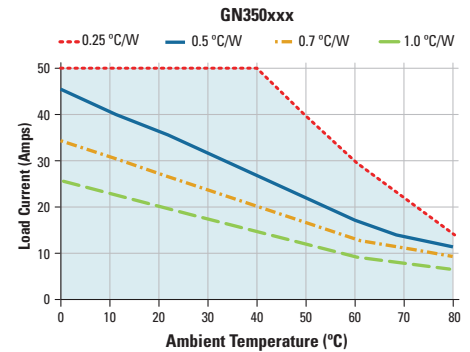
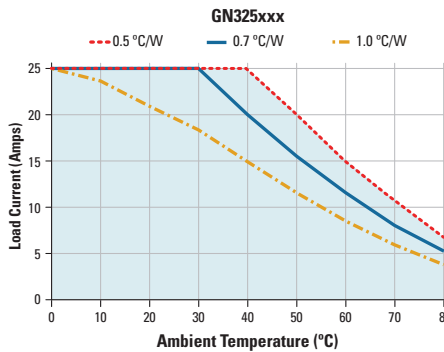
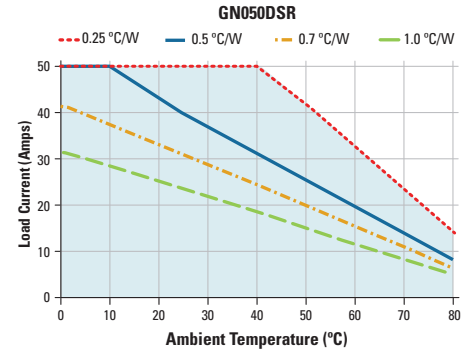
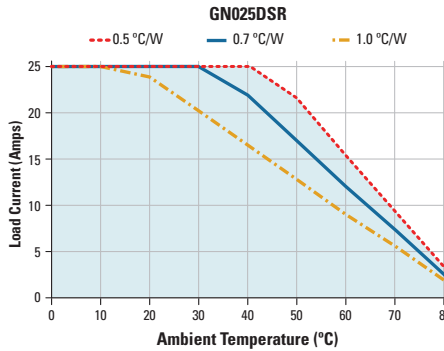


TABLE 1. Fuse

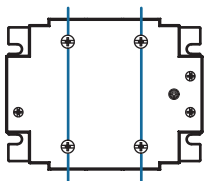


No Time Delay Fuse

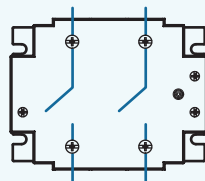
GN025DSR	25 A Class J
GN050DSR	60 A Class J
GN325xxx	25 A Class J
GN350xxx	60 A Class J

TABLE 2

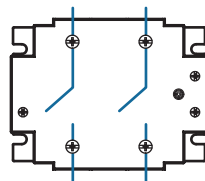
GN0



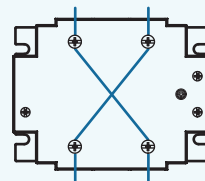
F = | R = ○



F = ○ R = ○

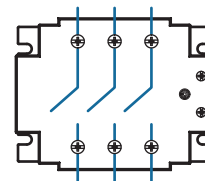


F = | R = |

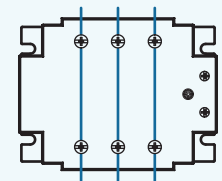


F = ○ R = |

GN3

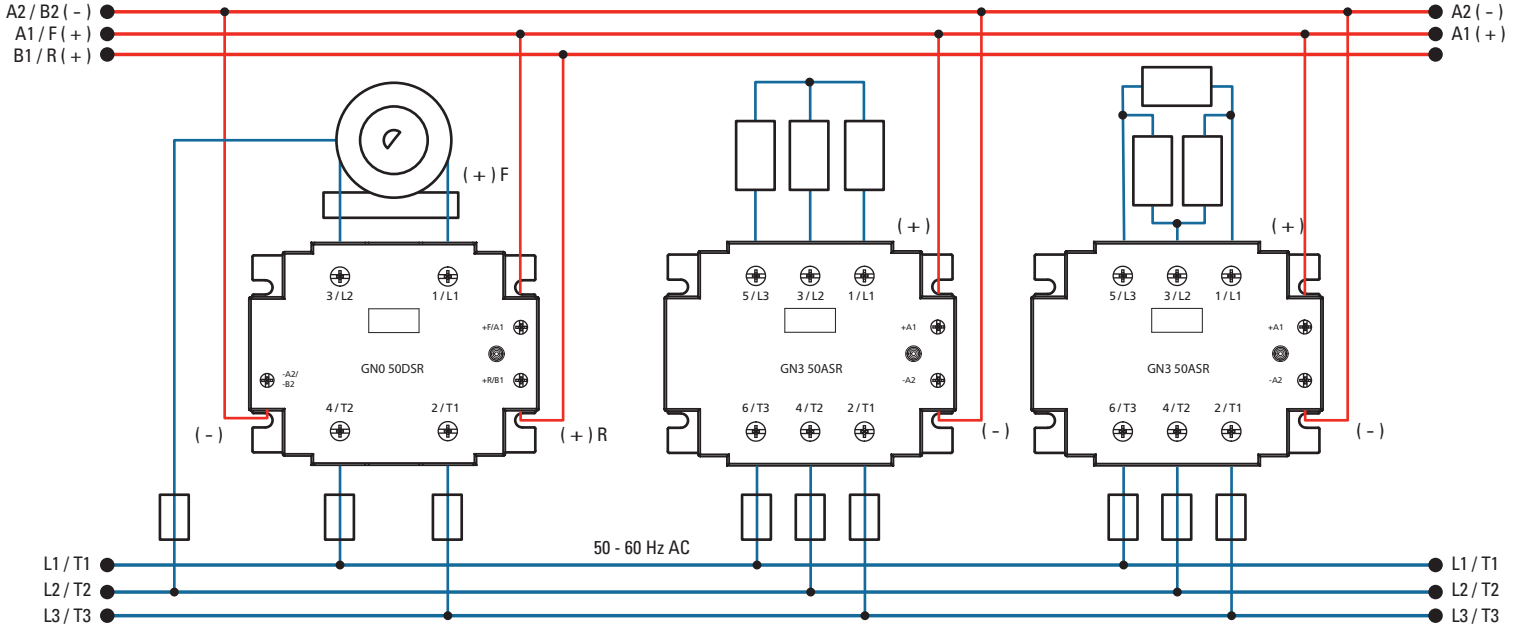


+A1 = ○



+A1 = |

WIRING DIAGRAM



Recommended Screw Torque Range

16.82 in-lb (1.9 Nm) on input and 21.24 in-lb (2.4 Nm) on output.

Wire Size

Maximum wire size capacity per terminal: input 16 AWG (1.3 mm²), output 10 AWG (5.3 mm²) solid, 8 AWG (8.4 mm²) stranded. Choose wire gauge according to actual load current.

Important Considerations

WARNING! Be sure to use input and output voltages within operating ranges. LED indicates only input status. It does not represent output status.

⚠ DANGER / DANGER / GEFARH / PELIGRO / PERICOLO / 危險

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Turn off power supply before working on this equipment.

Failure to follow these instructions will result in death or serious injury.

RISQUE D'ELECTROCUTION, D'EXPLOSION OU D'ARC ELECTRIQUE

- Coupez l'alimentation avant de travailler sur cet appareil.

Le non-respect de ces instructions provoquera la mort ou des blessures graves.

STROMSCHLAG-, EXPLOSIONS- ODER LICHTBOGENGEFAHR

- Vor dem Arbeiten an dem Gerät dessen Stromversorgung abschalten.

Die Nichtbeachtung dieser Anweisungen führt zu Tod oder schwerer Körperverletzung.

RIESGO DE ELECTROCUCIÓN, EXPLOSIÓN O ARCO ELÉCTRICO

- Desconecte toda alimentación antes de realizar el servicio.

Si no se siguen estas instrucciones provocará lesiones graves o incluso la muerte.

RISCHIO DI SCOSSA ELETTRICA, DI ESPLOSIONE O DI OFTALMIA DA FLASH

- Staccare l'apparecchio dalla presa di corrente prima di qualsiasi intervento.

Il mancato rispetto di queste istruzioni provocherà morte o gravi infortuni.

存在电击、爆炸或电弧闪烁危险

- 在操作此设备之前请先关闭电源。

若不遵守这些说明，可能会导致严重的人身伤害甚至死亡。

⚠ WARNING / AVERTISSEMENT / WARNUNG / ADVERTENCIA / AVVERTENZA / 警告

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- 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.

Failure to follow these instructions can result in serious injury, or equipment damage.

RISQUE DE DOMMAGE MATERIEL ET DE SURCHAUFFE DU BOITIER

- Les panneaux latéraux du produit peuvent être chauds. Laissez le produit refroidir avant de le toucher.
- Respecter les consignes de montage, et notamment les couples de serrage.
- Ne pas laisser pénétrer de liquide ni de corps étrangers à l'intérieur du produit.

Le non-respect de cette directive peut entraîner, des lésions corporelles graves ou des dommages matériels.

GEFAHR VON MATERIALSCHÄDEN UND GEHÄUSEERHITZUNG

- Die Seitenwände können heiß sein. Lassen Sie das Produkt abkühlen, bevor Sie es berühren.
- Beachten Sie die Montageanweisungen.
- Führen Sie keine Flüssigkeiten oder Fremdkörper in das Produkt ein.

Die Nichtbeachtung dieser Anweisung kann Körperverletzung oder Materialschäden zur Folge haben.

RIESGO DE DAÑOS MATERIALES Y DE SOBRECIENTAMIENTO DE LA UNIDAD

- Los paneles laterales del producto pueden estar calientes. Esperar que el producto se enfríe antes de tocarlo.
- Respetar las instrucciones de montaje, y en particular los pares de apretado.
- No dejar que penetren líquidos o cuerpos extraños en el producto.

Si no se respetan estas precauciones pueden producirse graves lesiones, daños materiales.

RISCHIO DI DANNI MATERIALI E D'INVOLUCRO CALDO

- I pannelli laterali dell'apparecchio possono scottare; lasciar quindi raffreddare il prodotto prima di toccarlo.
- Seguire le istruzioni di montaggio corrette.
- Non far entrare liquidi o oggetti estranei in questo apparecchio.

La mancata osservanza di questa precauzione può causare gravi rischi per l'incolumità personale o danni alle apparecchiature.

材料损坏和高温外壳的危险性

- 产品的一侧面板可能很热，在其冷却前请不要触碰。
- 遵照正确的安装说明，包括扭矩值。
- 请勿让液体及其他异物进入本产品。

如不能正确执行这些操作说明，极有可能造成严重人身伤害或者设备的损坏。

Rev. 081516