



Changing Trip Settings on DAS Breakers

Power Mod[™]

usa.siemens.com/powermod

Capabilities of the DAS Breakers

Siemens now offers Sentron Sensitrip IV breaker options with Dynamic Arc Sentry (DAS) functionality integrated into the Power Mod product line. These Electronic Trip Unit (ETU) breakers provide the customer more functionality than traditional thermal magnetic breakers. The two most significant new features DAS breakers offer to Power Mod users are:

- 1. Provide a blue, illuminated pushbutton on the outside of the equipment, wired to the breaker, to allow the user to put the breaker into maintenance mode. This assists in meeting new requirements of NEC 240.87.
- 2. Allows for the adjustment of the ampere rating (continuous current rating) of the breaker in the field.

The purpose of this document is to inform the reader of the significance of feature "2", noted above, and provide supplementary guidance on how changes of the ampere rating can be made in the field at the time of installation. Please refer to the breaker instructions for the complete technical and operational details.

l _n - Maximum trip unit rating (amps)	I _r - Continuous current rating (amps)									
1200	400	450	500	600	630	700	800	900	1000	1200
1400	500	600	630	700	800	1000	1100	1200	1250	1400
1600	700	800	900	1000	1100	1200	1250	1400	1500	1600

The chart above shows all the ampere rating options available for the DAS breakers used in Power Mod. For example, a 1200A rated Power Mod DAS module – like WBM11200C – can be adjusted to function at lower amperage settings such as 400A, 450A, 500A, etc. The breakers cannot be set to an amperage other than what is available in the table above for breakers of that maximum trip unit rating. Values in the table above are the same values found on the breaker around the left knob, as indicated by the blue square in the image below (1600A breaker illustrated below).



Sealing Loop

How to make these adjustments in the field

Sentron Sensitrip IV DAS-equipped breakers can be adjusted in the field to a lower ampere rating. During initial installation, we recommend changes to these settings be performed prior to energizing the equipment. To perform an adjustment to the ampere setting, please reference the operating instructions included with each product. The following steps are provided to enhance, not replace, the operating instructions. Please review all instructions carefully before operating the breaker. Product instructions are subject to technical changes without prior notice. The user could reference the below instructions to supplement the full instructions provided with the breaker: Swing open the clear cover plate that covers the knobs.

Use a flat-head screw driver to turn the dial clockwise until the arrow on the knob points to the desired amperage setting (turn counterclockwise if lowering the amperage setting from a previously higher setting):

If done correctly the arrow will point to the space between the lines, not to the lines themselves.

Once the desired amperage setting has been chosen, the clear cover plate must be closed. Siemens recommends this clear cover be sealed prior to energization.

This document is only intended to be a supplementary overview and should not be used in place of a thorough comprehension of the proper product instructions and code requirements.

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1600A 65k AIC DAS modules – SPD6A160LI

• 1600A 100k AIC DAS modules - SHPD6A160LI

Frequently Asked Questions:

- O: Can I change trip settings on DAS breakers to any value below the rating of the breaker?
- A: No, a breaker can only be set to specific predetermined value options. Each breaker has options presented along the left knob with available breaker amperage trip settings. For example, a 1400A breaker cannot be set to 900A, the closest available options would be 800A and 1000A. Changes to this setting should only be made by gualified personnel per the direction of the Engineer of Record.
- Q: What models of DAS breakers do we offer in Power Mod?
- A: We only offer LI models in Power Mod (LIG, LSI and LSIG are not available options in Power Mod modules).
- Q: What breaker part numbers are used in the Power Mod DAS units? • 1400A 100k AIC DAS modules - SHPD6A140LI
- 1200A 65kAIC DAS modules SND6A120LI A:
 - 1200A 100k AIC DAS modules SHND6A120LI
 - 1400A 65k AIC DAS modules SPD6A140LI
- O: What do the second and third knobs do?
- A: The second knob from the right tld(s) is the setting for the long-time delay.

The third knob from the right li(A) is the setting for instantaneous pickup.

These two knobs should only be adjusted if a short circuit study is performed which requires a different setting.

- Q: If the breaker amperage is adjusted from factory defaults, what is the new ampere rating?
- A: If the ampere rating setting is adjusted, the new rating is the newly set ampere rating. After this operation takes place, Siemens recommends the clear plastic cover plate be sealed.

Example:

200A

A contractor purchases a Power Mod WBM11200C main breaker module (pictured to the right). Building plans on the job change and the contractor only needs an 800A rated main where he intended to install the 1200A module.

In order to save time, the contractor installs the WBM11200C where the 800A module was needed. After the unit is mounted on the wall, the contractor opens the plastic cover plate covering the ETU settings and adjusts the left Ir(A) knob with a flat head screwdriver so that the arrow points to 800A. The contractor then uses a wire tie to seal the plastic plate via the locking loop in the top left corner of the plate.

When pulling wire into the unit, the contractor uses wire sized for 800A because the rating of the unit is now 800A. For the building owner's reference, the contractor adds a label to the outside of the unit that says, "Adjustable ETU 800A Sealed".

Still have questions about DAS breaker functionality?

For general questions please call Siemens customer support at 1-866-663-7324 For technical support please call 1-800-333-7421 or create a Support Request at: https://support.automation.siemens.com/US

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