GECP Series Circuit Protectors Installation Instructions

AutomationDirect.com
3505 Hutchinson Road
Cumming, GA 30040
1-800-633-0405

GECP-1CH-1-10A (adjustable) & GECP-1CH-xA (fixed)

⚠ *Safety Warnings*

Read and understand these instructions before installing, operating, or maintaining the equipment.

⚠ WARNING ***Risk of injury by deploying insufficient qualified operating employees. Inappropriate appoint of non qualified or insufficient personnel can cause serious personal injuries and property damages. Tasks which apply special procedures should be done by trained and qualified employees or experts, especially electricians.***

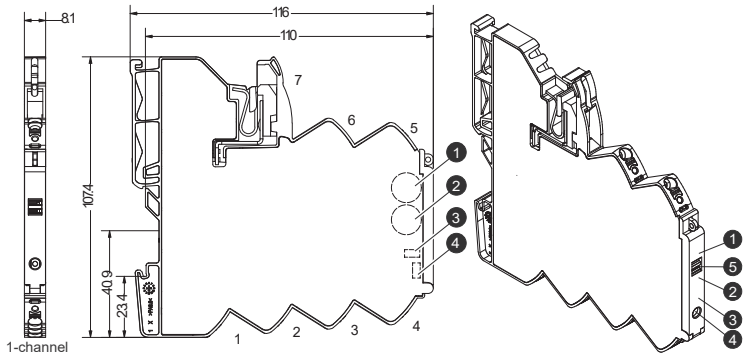
⚠ WARNING ***Short circuits and electric shocks by wrong voltage application and incorrect wiring. People can be seriously injured by electric current and the product can be damaged. Switch off the power of the whole system before wiring.***

⚠CAUTION ***Risk of injury by electric current. People can be injured by electric current and the product can be damaged. De-energize the system before mounting.***

NOTICE:

- Follow the ESD regulations.
- Only use certified components to ensure reliable functions.
- Follow the valid safety regulations and general regulations regarding the technical standards.
- You will find further notes and information on the respective product in the corresponding data sheet.

Product Overview



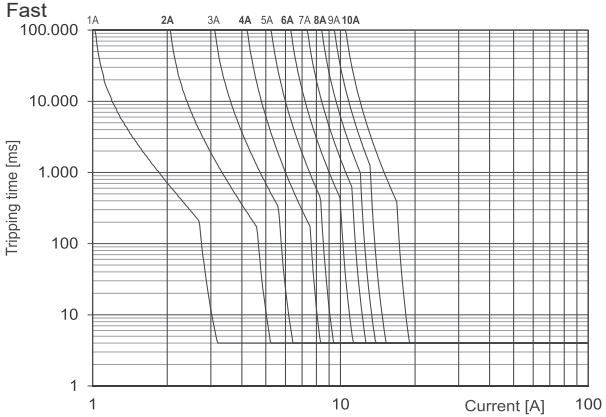
1 Rotary Switch Rated Current I*
2 Rotary Switch Characteristic C*
3 LED status display
4 Button ON/OFF
5 Clip-on marker

*Depending on product type

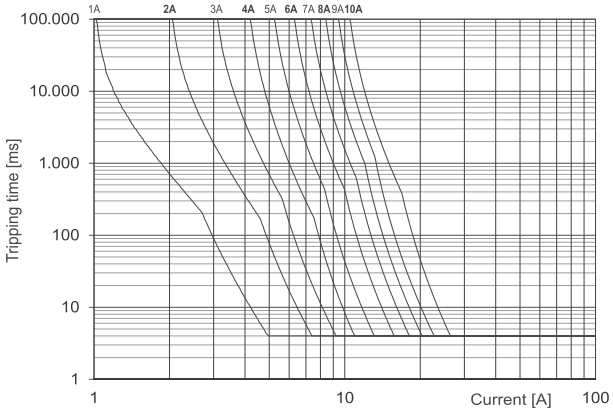
Characteristic Curves

NOTICE: Standard characteristics are shown here.

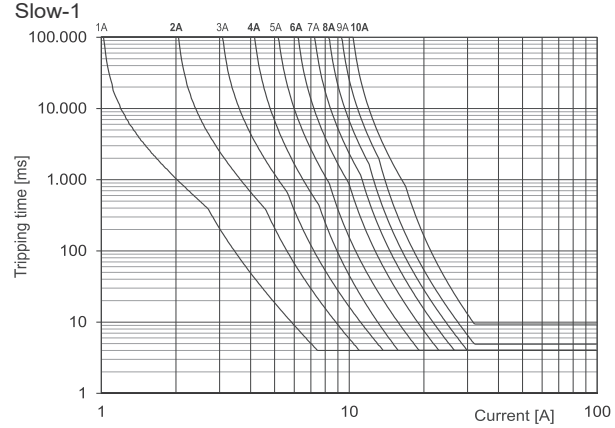
Fast



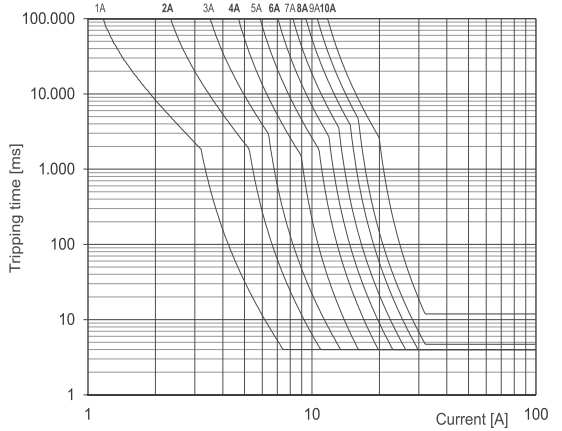
Middle



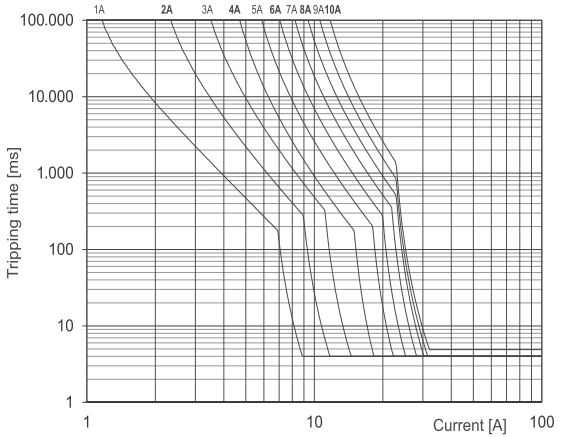
Slow-1



Slow-2



Slow-3



Technical Data

NOTICE: Always refer to the respective current data sheet. This can be found on the product page of the product.

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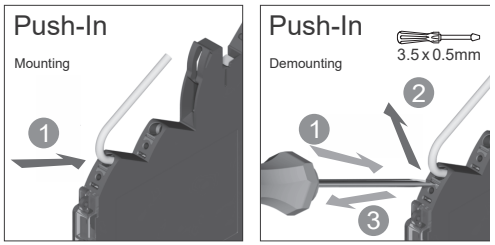
NOTICE



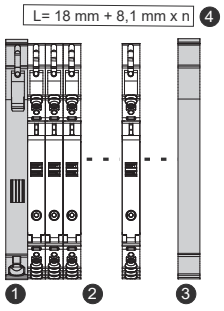
Accessories

	Part-No.
Supply Set	GECP-24V-SS
0V terminal	GECP-0V-TERM
Copper bus bar	GECP-BB-x
Insulated 8-pin jumper comb	GECP-JC-8x

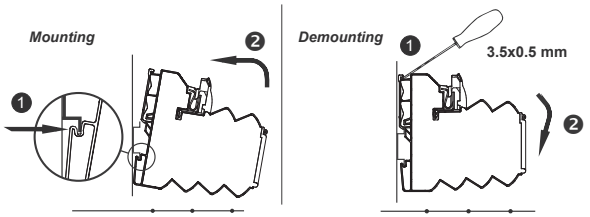
Installation

Standard Application

1 Supply terminal from set GECP-24V-SS
2 Monitoring Module – GECP-1CH-x
3 End terminal from set GECP-24V-SS
4 Copper bus bar - GECP-BB-x



GECP Modules



LED Status, Button, Rotary Switch

LED green	ON	Function is OK*
LED green, flashing 1 Hz	Overload	Load above 90 % of I nominal
LED green, flashing 5 Hz	Overload	Load above 100 % of I nominal
LED red	OFF	Module switched off or acknowledged*
LED red, flashing 1 Hz	Overload	Output off due to overload/short circuit*
LED red, flashing 5 Hz	Error	Wiring error – feedback (internal error)
LED red, flashing shortly	OFF	Output off via remote set/reset
LED red/green, flashing Hz	ON	Target settings via rotary switch deviate from actual settings. NOTICE: Switching off and on via pushbutton required.
Button ***	ON/OFF	Nominal operation: ON/OFF Load monitoring tripped: 1st push: acknowledge 2nd push: ON
Rotary Switch (I) – Switch Position**		Rated current, see page 4.
Rotary Switch (C) – Switch Position**		Characteristic: 1: fast 2: middle 3: slow-1 4: slow-2 5: slow-3

* If the operating voltage is switched off, the last status is saved (Default).
** Model GECP-1CH-1-10A Only, Accept the setting - after switching on again via the button, not by Remote Set/Reset
*** Master function - switch off via push button, can only be switched on again via push button

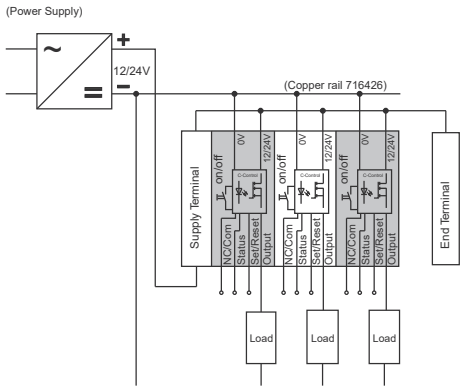
Wiring

Push-in connection
Standard Values

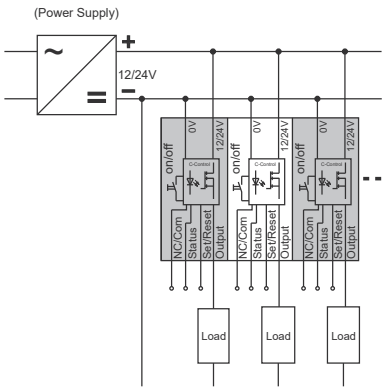
Stripping Length	***Cross section*** (3.5 x 0.5mm)
10	0.25 ... 2.5 mm², AWG 24 – 14
10	0.25 ... 2.5 mm², AWG 24 – 14
UL	***UL Values***
10	0.25 ... 2.5 mm², AWG 24 – 14

Block diagram

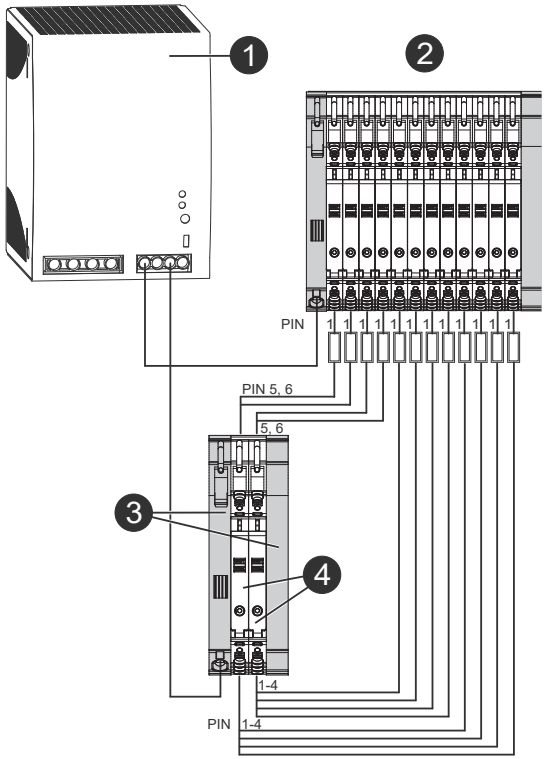
With Terminal Set

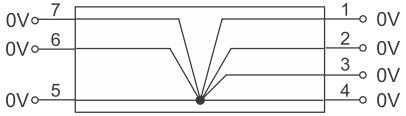


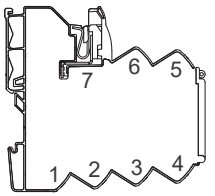
Direct Voltage Supply



Connection with Supply Set







1 Power Supply
2. GECP-1CH-x Modules with Supply Set
3 Supply Set (GECP-24V-SS)
4 Collective Terminals 0 V (GECP-0V-TERM)

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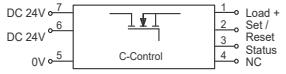
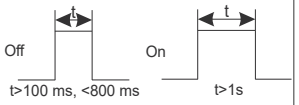
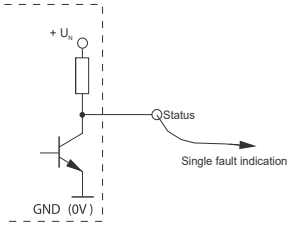
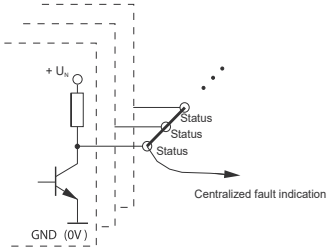
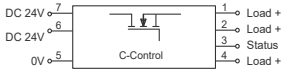
Product variants

Part Number	Pin Assignment	Remote Set/Reset	Status Output	Adjustments
GECP-1CH-1-10A	 1: + Output 2: Control input (Set/Reset) 3: Status output 4: NC 5: 0V 6: + Supply (alternative) 7: + Supply		Fixed setting: Module Status / High level / Low level on: X off: X / X tripped: X open load circuit: X  	Adjustable via Rotary Switch ▪ Rotary Switch: 1 (I) + 2 (C) Switch Position / Current (I) / Characteristic (C) 1: 1 A: fast 2: 2 A: middle 3: 3 A: slow-1 4: 4 A: slow-2 5: 5 A: slow-3 6: 6 A: – 7: 7 A: – 8: 8 A: – 9: 9 A: – 10: 10 A: –
GECP-1CH-1A GECP-1CH-2A GECP-1CH-4A GECP-1CH-6A GECP-1CH-8A	 1: + Output 2: + Output 3: Status output 4: + Output 5: 0V 6: + Supply (alternative) 7: + Supply	–		