

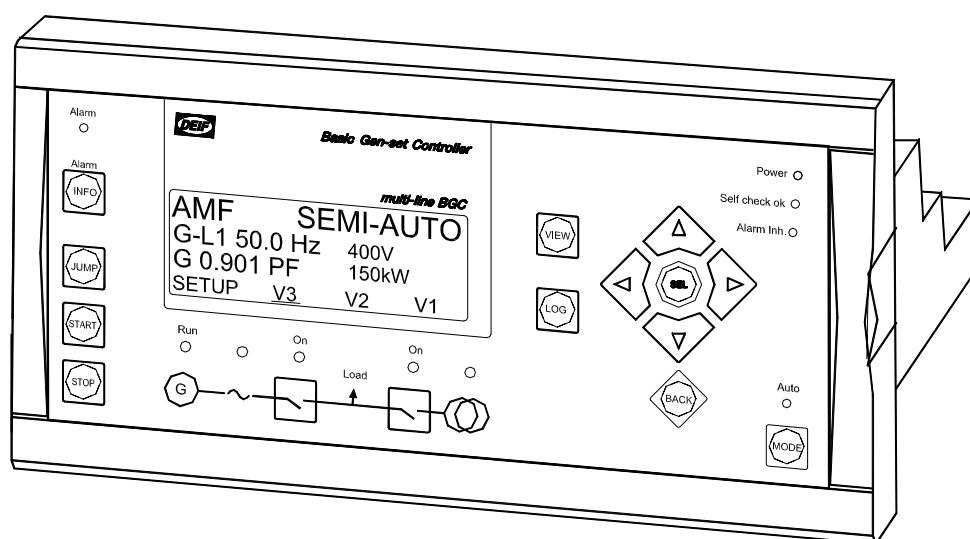


-power in control

Description of options

Option G1, Control functions Basic Gen-set Controller

4189340307B



- *Description of option*
- *Functional description*
- *Etc.*

DEIF A/S



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1. Warnings and legal information

This chapter includes important information about general legal issues relevant in the handling of DEIF products. Furthermore, some overall safety precautions will be introduced and recommended. Finally, the highlighted notes, which will be used throughout this document, are presented.

Legal information and responsibility

DEIF takes no responsibility for installation or operation of the generator set. If there is any doubt about how to install or operate the generator controlled by the BGC unit, the company responsible for the installation or the operation of the set must be contacted.

The BGC units are not to be opened by unauthorized personnel. If opened anyway, the warranty will be lost.

Electrostatic discharge awareness

Sufficient care must be taken to protect the terminals against static discharges during the installation. Once the unit is installed and connected, these precautions are no longer necessary.

Safety issues

Installing the BGC unit implies work with dangerous currents and voltages. Therefore, the installation of the BGC should only be carried out by authorized personnel who understand the risks involved in the working with live electrical equipment.

Notes

Throughout this document a number of notes with helpful user information will be presented. To ensure that these notes are noticed, they will be highlighted in order to separate them from the general text.



XX

2. Description of option

This option includes 4 configurable relays (M14). All of the relays in the BGC not used for any other function can be selected to this function – ‘Start next generator’ and ‘Stop next generator’.

Terminal description

Slot #2/3, load dependent start/stop relays

Term.	Function	Technical data	Description
47	55	NO	Relay 6 250 VAC, 8A
48	56	Com.	
49	57	NO	Relay 7 250 VAC, 8A
50	58	Com.	
51	59	NO	Relay 8 250 VAC, 8A
52	60	Com.	
53	61	NO	Relay 9 250 VAC, 8A
54	62	Com.	



The actual position of the relays depends on the specific selection of options.

Locate the position of the specific option on the label of the BGC and find the correct output number in the table below.

	Option G1	
	Slot #2	Slot #3
	Terminal numbers	
Configurable 6	47/48	55/56
Configurable 7	49/50	57/58
Configurable 8	51/52	59/60
Configurable 9	53/54	61/62

System

4810 load dependent relay, “Start next generator”

No.	Setting	Min. setting	Max. setting	Factory setting
4811	Start next gen. Start point	50%	150%	80%
4812	Start next gen. Timer	0 s	100 s	10 s
4813	Start next gen. Relay output A	R0 (none)	R9 (relay 9)	R0 (relay 0)
4814	Start next gen. Relay output B	R0 (none)	R9 (relay 9)	R0 (relay 0)
4815	Start next gen. Enable	OFF	ON	ON

4820 Load dependent relay “Stop next generator”

No.	Setting	Min. setting	Max. setting	Factory setting
4821	Stop next gen. Stop point	0%	100%	20%
4822	Stop next gen. Timer	0 s	200 s	30 s
4823	Stop next gen. Relay output A	R0 (none)	R9 (relay 9)	R0 (relay 0)
4824	Stop next gen. Relay output B	R0 (none)	R9 (relay 9)	R0 (relay 0)
4825	Stop next gen. Enable	OFF	ON	ON

Functional description

The load dependent relays operate as illustrated in the following drawings:

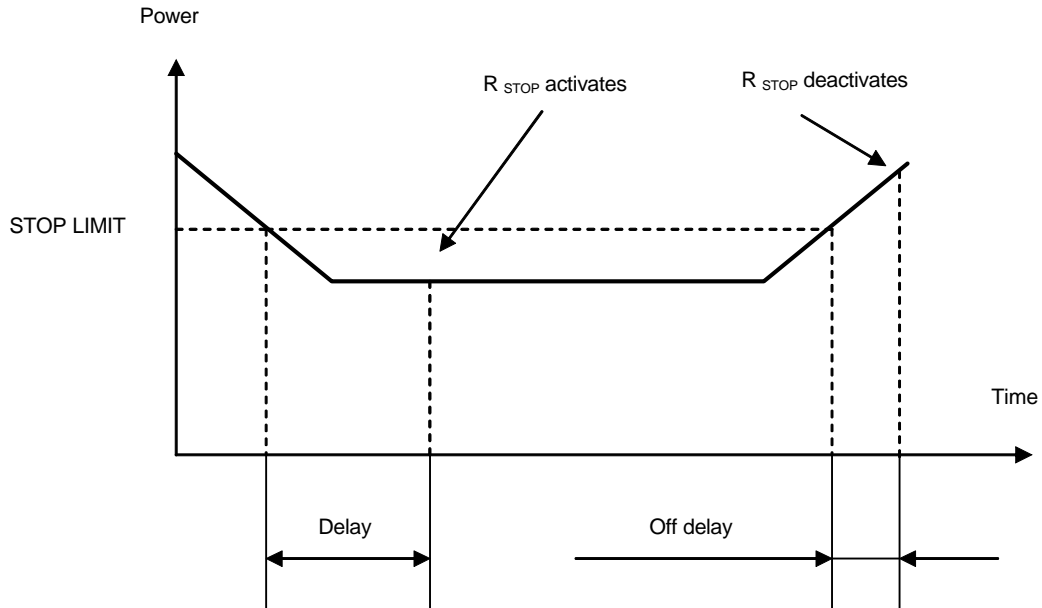


The settings are located in menus 4810 and 4820 in the system setup menu

The off delays of the relays are adjusted in the menu of the selected relay, menu 4610 to 4750 in the system menu.

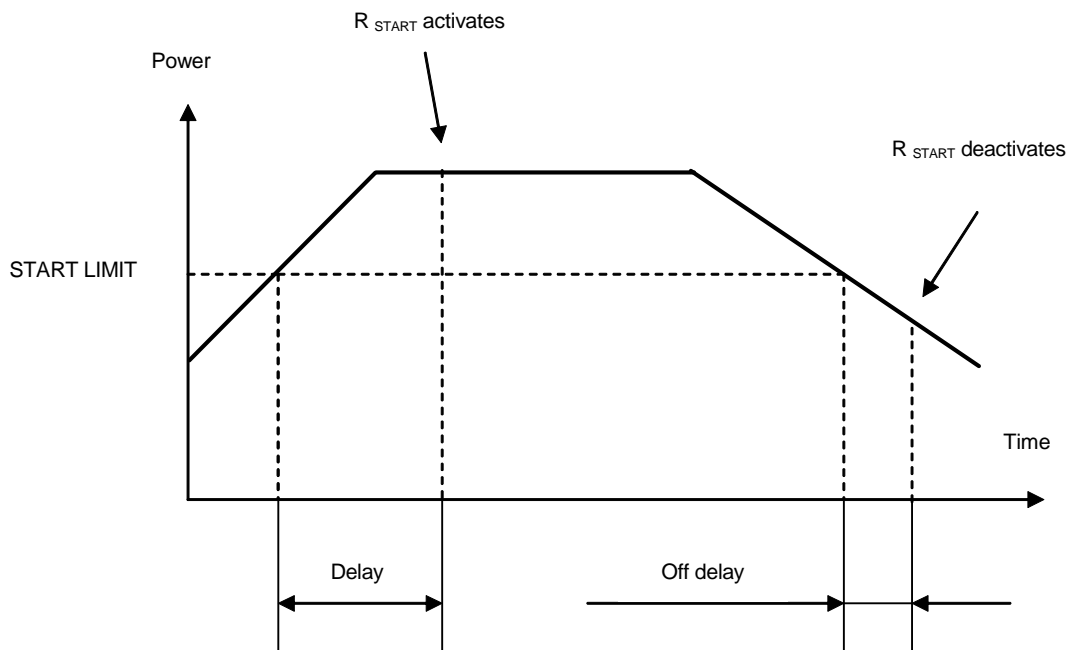
Load dependent stop relay

The diagram below illustrates when the stop relay activates and deactivates.



Load dependent start relay

This diagram shows when the start relay activates and deactivates.



DEIF A/S reserves the right to change any of the above