

7SG114 Argus

Overcurrent Protection Relays

Document Release History

This document is issue 2010/02. The list of revisions up to and including this issue is:

Pre release

2010/02	Document reformat due to rebrand
2002/12	First issue

Software Revision History

Since introduction in 1995, Argus overcurrent relays have undergone a number of modifications to improve functionality and features provided. The content of this manual is directly applicable to the software versions listed below. When used with other versions minor variations may be noticed. A detailed release history for each type is given in the appropriate Diagrams and Parameters document.

Argus 4	2716H80005 R5	release date March 2005
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Hardware Release History

Since introduction in 1995, Argus overcurrent relays have undergone a number of minor changes to hardware. The content of this manual is directly applicable to Argus hardware in Epsilon cases produced since March 2002. When used with earlier versions, minor variations may be noticed. A detailed release history for each type is given in the appropriate Diagrams and Parameters document.

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Scope

This manual applies to the Argus relays listed in the following MLFB Structure & table.

The MLFB Structure references the complete number for each relay:

- 7SG11xx-xxxxx-xxA0

The table uses two references for most relays, each of which is valid:

- an 'Order code' of the form $AGn-nnn$, and
- a 'Type' of the form $DCDnnnX$ or $GAFnnnX$

where n is a digit and X is a letter.

Standard Models

All of the types and ordering codes below refer to:

- Epsilon case, and
- ST fibre-optic connectors optimised for 62.5/125 μm glass fibre.

On request it may be possible to supply equivalent models fitted with:

- SMA fibre-optic connectors optimised for 62.5/125 μm glass fibre, or
- SMA fibre-optic connectors optimised for 1 mm plastic fibre.
- RS 485 Electrical communications
- All relays are 1A/5A rated unless otherwise stated in the following table.

Ordering Information – 7SG1144 Argus 4

Product description	Variants	Order No.
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Nondirectional O/C Relay with auto-reclose

Integrated overcurrent and earth fault relay with multishot autoreclose facilities.

Number of elements

Four pole relay

Auxiliary supply /binary input voltage

24/30/48 V DC auxiliary, 30 V binary input
 110/220 V DC auxiliary, 30 V binary input
 24/30/48 V DC auxiliary, 48 V binary input
 110/220 V DC auxiliary, 48 V binary input ¹⁾
 110/220 V DC auxiliary, 110 V low burden binary input
 110/220 V DC auxiliary, 220 V low burden binary input

Type of elements

3 pole phase-fault and earth-fault
 3 pole phase-fault and sensitive/restricted earth-fault (SEF/REF) or
 2 pole phase-fault and earth fault and sensitive/restricted
 earth-fault (SEF/REF)

Nominal current

1/ 5 A

I/O range

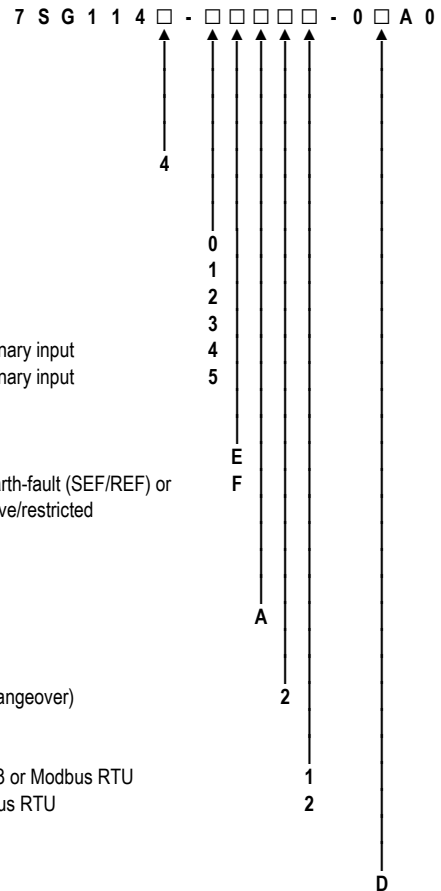
9 Binary Inputs / 7 Binary Outputs (incl. 3 changeover)

Communication interface

Fibre optic (ST-connector) / IEC 60870-5-103 or Modbus RTU
 RS485 interface / IEC 60870-5-103 or Modbus RTU

Housing size

Case size E6 (4U high)



- ¹⁾ High burden 110V & 220V binary inputs compliant with ESI48-4 ESI 1 available via external dropper resistors with 48V binary input version for 9 binary inputs and 110 V application, order resistor box VCE:2512H10064 in addition for 9 binary inputs and 220 V application, order two resistor boxes VCE:2512H10067 in addition Refer to website for application note about ESI48-4 compliance

Series Description	Protection	I / O	Order code / Type				
			30/48 aux.		110/220 aux.		
			30V status	48V status	48V status	110V status	220V status
Argus 4 Overcurrent protection & autoreclose	3 phase-fault and earth-fault	9 S I 7 OR	GAF431C	AG4-401 GAF433C	AG4-402 GAF434C		
	3 phase-fault and SEF, or 2 phase-fault, earth-fault and SEF	9 S I 7 OR	GAF441C	AG4-403 GAF443C	AG4-404 GAF444C	GAF445C	

Structure of Document Set

