

# Main Protection

## Directional Overcurrent Protection – Argus 7SR224

Product description	Variants	Order No.
<b>Directional O/C Relay (Argus)</b>		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 S R 2 2 4 □ - □ □ □ □ □ - 0 □ □ 0
Recloser		↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑
	<u>Protection Product</u> Overcurrent – Directional	2
	<u>Relay Type</u> Recloser	4
	<u>Case I/O and Fascia</u> <sup>1)</sup> E10 case, 13 Binary Inputs / 14 Binary Outputs, 8 LEDs + 12 keys	2 2/3 C A/D 2 3 <sup>2)</sup> D A <sup>4)</sup>
	E10 case, 23 Binary Inputs / 22 Binary Outputs, 8 LEDs + 12 Keys	3 2/3 1-4 2/3 <sup>3)</sup> C A/D 3 3 <sup>2)</sup> 1-4 2/3 <sup>3)</sup> D A <sup>4)</sup>
	E10 case, 33 Binary Inputs / 14 Binary Outputs, 8 LEDs + 12 keys	4 2/3 C A/D 4 3 <sup>2)</sup> D A <sup>4)</sup>
	E12 case, 33 Binary Inputs / 14 Binary Outputs, 16 LEDs + 12 keys	6 C A/D 6 E A <sup>4)</sup>
	E12 case, 33 Binary Inputs / 30 Binary Outputs, 16 LEDs + 12 keys	7 1-4 2/3 <sup>3)</sup> C A/D 7 1-4 2/3 <sup>3)</sup> E A <sup>4)</sup>
	E12 case, 43 Binary Inputs / 22 Binary Outputs, 16 LEDs + 12 keys	8 1-4 2/3 <sup>3)</sup> C A/D 8 1-4 2/3 <sup>3)</sup> E A <sup>4)</sup>
	<u>Measuring Input</u> 4xCT1/5 A, 4xVT63.5/110V	2
	4xCT1/5 A, 6xVT63.5/110V	3
	<u>Auxiliary voltage</u> PSU Rated: DC 24 to 250 V/AC 100 to 230 V; Binary input threshold: DC 19 V (Rated: DC 24 to 250 V) DC 24 to 250 V/AC 100 to 230 V; Binary input threshold: DC 88 V (Rated: DC 110 to 250 V)	M N
	<u>Region specific functions</u> Region World, 50/60Hz, language English, (language changeable), Reyrolle fascia Region World, 50/60Hz, language English, (language changeable), Siemens fascia Region USA, 60/50Hz, language English - US (ANSI) (language changeable), Siemens fascia	A B C
	<u>Communication Interface</u> Standard version - included in all models, USB front port, RS485 rear port Standard version - plus additional rear F/O ST connectors (x2) and IRIG-B Standard version - plus additional rear RS485 and IRIG-B Standard version - plus additional rear RS232 and IRIG-B Standard version - plus additional rear Electrical Ethernet RJ45 (x2) Standard version - plus additional rear Optical Ethernet Duplex LC (x2)	1 2/3 2 2/3 3 2/3 4 2/3 7 8 8 8
	<u>Protocol</u> IEC 60870-5-103 and Modbus RTU and DNP3 IEC 60870-5-103 and IEC 60870-5-101 and Modbus RTU IEC 60870-5-103 and IEC 60870-5-101 and Modbus RTU and DNP3 and IEC 61850	1-4 2 1-4 3 7/8 8

(continued on following page)

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Protection  
Reyrolle

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(continued from the previous page)		
<u>Protection Function Packages</u>		
Standard version - Included in all models		C
21FL	Fault Locator	
27/59	Under/overvoltage	
27Sag/59Swell	Under/overvoltage, Sag/swell	
37	Undercurrent	
46BC	Broken conductor/load unbalance	
46NPS	Negative phase sequence overcurrent	
49	Thermal overload	
50BF	Circuit breaker fail	
51V	Voltage dependent overcurrent	
59N	Neutral voltage displacement	
60CTS	CT supervision	
60VTS	VT supervision	
67/50	Directional instantaneous phase fault overcurrent	
67/50G	Directional instantaneous earth fault	
67/51	Directional Time delayed phase fault overcurrent	
67/51G	Directional Time delayed earth fault	
67/50SEF	Directional instantaneous sensitive earth fault	
67/51SEF	Directional time delayed sensitive earth fault	
74TC	Trip circuit supervision	
74BF	Circuit breaker close fail	
79	Autoreclose	
81	Under/overfrequency	
81HBL2	Inrush restraint	
86	Lockout	
	Battery and capacitor supervision & test	
	Cold load pickup	
	Programmable logic	
<u>Protection Function Packages</u>		
Standard version - plus		D A
60VTS	Loop automation by loss of voltage	
Standard version - plus		E A
Single/triple pole autoreclose		
<u>Additional Functionality</u>		
No Additional Functionality		A
Synchronising, Synchronising Check		C D
<u>Settings File</u>		
Standard settings and standard labels for Siemens		
Recloser		0

- 1) 4CT is configured as 3PF + EF/SEF (user selectable setting).
- 2) 6xvt Inputs are required for Loop Automation function (D) but are optional for Standard (C) & Single Triple (E) models.
- 3) Some extended I/O count options are not available with Ethernet option selected.
- 4) Optional Check Synchronising is not available with Loop Automation or Single Triple options selected