

Main Protection

Directional Overcurrent Protection - Argus 7SR224

Protection
Reyrolle

Product description	Variants	Order No.
Directional O/C Relay (Argus)		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> ¹⁾ E10 case, 13 Binary Inputs / 14 Binary Outputs, 8 LEDs + 12 keys		2 2/3 C A/D 2 3 ²⁾ D A ⁴⁾
E10 case, 23 Binary Inputs / 22 Binary Outputs, 8 LEDs + 12 Keys		3 2/3 1-4 2/3 ³⁾ C A/D 3 3 ²⁾ 1-4 2/3 ³⁾ D A ⁴⁾
E10 case, 33 Binary Inputs / 14 Binary Outputs, 8 LEDs + 12 keys		4 2/3 C A/D 4 3 ²⁾ D A ⁴⁾
E12 case, 33 Binary Inputs / 14 Binary Outputs, 16 LEDs + 12 keys		6 6 C A/D 6 E A ⁴⁾
E12 case, 33 Binary Inputs / 30 Binary Outputs, 16 LEDs + 12 keys		7 7 1-4 2/3 ³⁾ C A/D 7 1-4 2/3 ³⁾ E A ⁴⁾
E12 case, 43 Binary Inputs / 22 Binary Outputs, 16 LEDs + 12 keys		8 8 1-4 2/3 ³⁾ 1-4 2/3 ³⁾
<u>Measuring Input</u> 4xCT1/5 A, 4xVT63.5/110V 4xCT1/5 A, 6xVT63.5/110V		2 2 3 3 C/E
<u>Auxiliary voltage</u> 30 to 220V DC, binary input threshold 19V DC 22W 30 to 220V DC, binary input threshold 88V DC 22W		A B B
<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 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 DNP 3.0 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 DNP 3.0 and IEC 61850		1-4 2 1-4 3 7/8 8

(continued on following page)

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Product description	Variants	Order No.
Directional O/C Relay (continued from previous page)	<u>Protection Function Packages</u> Standard version - Included in all models 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 Standard version - plus 60VTS Loop automation by loss of voltage Standard version - plus Single/triple pole autoreclose <u>Additional Functionality</u> No Additional Functionality Synchronising, Synchronising Check <u>Settings File</u> Standard settings and standard labels for Siemens Recloser	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 S R 2 2 4 □ - □ □ □ □ □ - 0 □ □ 0 ▲ ▲ ▲ C D A E A C D 0

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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