

# Main Protection

## Directional Overcurrent Protection - Argus 7SR22

Product description	Variants	Order No.
<b>Directional Overcurrent (Argus)</b>		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 S R 2 2 0 □ - 2 □ A □ □ - 0 □ A 0
<u>Protection Product</u> Overcurrent – Directional		↑ 2
<u>Relay Type</u>		↑ 0
<u>Housing, I/O and Fascia <sup>1)</sup></u> E6 housing, 5 CT, 4 VT, 3 Binary Inputs / 6 Binary Outputs, 8 LEDs E8 housing, 5 CT, 4 VT, 13 Binary Inputs / 14 Binary Outputs, 16 LEDs E8 housing, 5 CT, 4 VT, 13 Binary Inputs / 14 Binary Outputs, 8 LEDs + 6 keys		↑ 2 ↑ 3 ↑ 4
<u>Measuring Input</u> 1/5 A, 63.5/110 V, 50/60Hz		↑ 2
<u>Auxiliary voltage</u> DC 30 to 220 V binary input threshold DC 19V DC 30 to 220 V, binary input threshold DC 88V		↑ A ↑ B
<u>Spare</u>		↑ A
<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 (x2)		↑ 1 ↑ 2 ↑ 3 ↑ 4 ↑ 7 7 ↑ 8 7
<u>Protocol</u> IEC 60870-5-103 and Modbus RTU (user selectable) IEC 60870-5-103 and Modbus RTU and DNP 3.0 (user selectable) IEC 60870-5-103 and Modbus RTU and DNP 3.0 (user selectable) and IEC61850		↑ 1 ↑ 2 ↑ 7-8 7
<u>Protection Function Packages</u> Standard version - included in all models 21FL Fault locator 21LB Load Blinder 27/59 <sup>1)</sup> Under/overvoltage 37 Undercurrent 37G <sup>1)</sup> Ground Undercurrent 37SEF <sup>1)</sup> SEF Undercurrent 46BC Broken conductor/load unbalance 46NPS Negative phase sequence overcurrent 47 <sup>1)</sup> Negative phase sequence voltage 49 Thermal overload 50 Instantaneous phase fault overcurrent 50AFD Arc Flash Detector 50BF Circuit breaker fail 50G/50N Instantaneous earth fault 51V Voltage dependent overcurrent 59N Neutral voltage displacement 60CTS 60CTS-I CT supervision 60VTS VT supervision 64H High impedance REF 67/50 Directional instantaneous phase fault overcurrent 67/50G-67/50N Directional instantaneous earth fault 67/51 Directional time delayed phase fault overcurrent 67/51G-67/51N Directional time delayed earth fault/SEF 74TC Trip circuit supervision 81 Under/overfrequency 81HBL2 Inrush restraint Cold load pickup Programmable logic		↑ C ↑ D ↑ E ↑ A
Standard version – plus 79 Autoreclose 79+25 Autoreclose & Check Sync		
<u>No additional functionality</u>		

1) 5CT is configured as 3PF + EF/SEF+ EF/SEF(user selectable setting).