Variants Order No. Product description 1 5 **2** Directional O/C Relay (Argus) S R 0  $\Box$ **A** □ 0 Directional overcurrent and **Protection Product** earth fault protection relay Overcurrent - Directional Housing I/O and Fascia 1 CT, 3VT, 3 Binary Inputs / 5 Binary Outputs, 10 LEDs С 4 CT, 3VT, 3 Binary Inputs / 5 Binary Outputs, 10 LEDs 5 4 CT, 3VT, 6 Binary Inputs / 8 Binary Outputs, 10 LEDs 6 4 CT, 3VT, 4 Binary Inputs / 8 Binary Outputs, 10 LEDs 8) Measuring Input 1/5 A, 50/60Hz 1) 2 1/5 A, 50/60Hz with SEF Input 2) Auxiliary voltage DC 80 to 250 V,AC 115 V 5), binary input threshold DC 19V G DC 80 to 250 V, binary input threshold DC 88V Н DC 24 to 60 V, binary input threshold DC 19V Communication Interface Standard version – included in all models, USB front port, RS485 rear port (E4 Case) 2 Standard version - plus additional rear electrical Ethernet RJ45 (x2), E6 Case 6) 7 7 Standard version – plus additional rear optical Ethernet duplex (x2), E6 Case 6) 8 **Protocol** IEC 60870-5-103, Modbus RTU and DNP3 (user selectable) 2 IEC 60870-5-103 Modbus RTU, DNP3 and IEC 61850 (user selectable settings) 6) Relay Cover Standard Version - No Push Buttons Push Buttons - Down and Right Arrows 2 Protection Function Packages Standard version - Included in all models 27/59 Under/overvoltage 32 3) Power 32S 7) Sensitive Power 37 Undercurrent 46BC 3) Broken conductor/load unbalance 46NPS 3) Negative phase sequence overcurrent 47 Negative phase sequence voltage 49 3) Thermal overload 50AFD Arc Flash Detection 50BF 3) Circuit breaker fail 51V 3) Voltage controlled overcurrent 55 3) Power Factor 59N Neutral voltage displacement 60CTS 3) CT supervision 4CT is configured as 3PF + EF 60VTS 3) VT supervision 4CT is configured as 3PF + High Impedance REF SEF/REF (user selectable 67/50 Directional instantaneous phase fault overcurrent Functions only available in 4CT 67/50G 67/50N Directional instantaneous earth fault 3) 67/50SEF 2) Instantaneous sensitive earth fault 67/51 Directional time delayed phase fault overcurrent Not available on single-pole SEF 4) 67/51G 67/51N Directional time delayed earth fault 67/51/SFF 2) Time delayed sensitive earth fault 115V AC supported by devices 81HBL2 4) 2nd harmonic block/inrush restraint with hardware version CC or 74T/CC Trip & Close circuit supervision later 6) E4 case is standard, E6 case is 51C3) Cold load pickup required if IEC61850 option fitted 81U/0 Under/Over Frequency Hand reset contacts 4 Binary Input variant provides segregated Binary Outputs Programmable logic Standard version - plus without a common terminal Autoreclose D Functions only available in 4CT SEF relay **Additional Functionality** 

No Additional Functionality