



Main

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| Relay application | Substation |
| Range of product | Sepam series 80 Sepam series 80 NPP |
| Device short name | S81 |
| Control and monitoring type | Circuit breaker/contactor control ANSI code: 94/69 (option) Latching/acknowledgement ANSI code: 86 Logic discrimination ANSI code: 68 (option) Switching of groups of settings Annunciation ANSI code: 30 Automatic transfer (AT) (option) Logipam programming (ladder language) (option) Logic equation editor 200 operators |
| Metering type | Positive sequence voltage Vd/rotation direction Frequency Calculated active and reactive energy (+/- W.h, +/- VAR.h) Active and reactive energy by pulse counting (+/- W.h, +/- VAR.h) (option) Phase current I1, I2, I3 RMS Demand current I1, I2, I3 Peak demand current IM1, IM2, IM3 Measured residual current I'0 Voltage U21, U32, U13, V1, V2, V3 Residual voltage V0 Negative sequence voltage Vi Active power P, P1, P2, P3 Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Peak demand power PM, QM Power factor Measured residual current I0, calculated I'0Σ |
| Network and machine diagnosis type | Unbalance ratio/negative sequence current Ii Disturbance recording Thermal capacity used Remaining operating time before overload tripping Waiting time after overload tripping Tripping context Phase fault and earth fault trip counters Harmonic distortion (THD), current and voltage Ithd, Uthd Difference in amplitude, frequency and phase of voltages with synchro-check option Apparent positive sequence impedance Zd Apparent phase-to-phase impedances Z21, Z32, Z13 Phase displacement Datalog (DLG) |
| Switchgear diagnosis type | Cumulative breaking current |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

CT/VT supervision ANSI code: 60FL
 Trip circuit supervision ANSI code: 74 (option)
 Auxiliary power supply monitoring
 Nb of operations, operating time, charging time, nb of racking out operations (option)

Complementary

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| Type of measurement | Voltage Peak demand power Current Harmonic distortion (I THD & U THD) Power factor Frequency Power (P,Q) Energy |
| Protection type | Recloser (4 cycles) ANSI code: 79 (option) Neutral voltage displacement ANSI code: 59N Breaker failure ANSI code: 50BF Directional earth fault ANSI code: 67N/67NC Synchro-check ANSI code: 25 (option) Overvoltage (L-L or L-N) ANSI code: 59 Thermal overload for cables ANSI code: 49RMS Negative sequence/unbalance ANSI code: 46 Overfrequency ANSI code: 81H Underfrequency ANSI code: 81L Positive sequence undercurrent ANSI code: 27D Remanent undervoltage ANSI code: 27R Undervoltage (L-L or L-N) ANSI code: 27 Negative sequence overvoltage ANSI code: 47 Phase overcurrent ANSI code: 50/51 Earth fault/sensitive earth fault ANSI code: 50N/51N Earth fault/sensitive earth fault ANSI code: 50G/51G Directional active overpower ANSI code: 32P |
| Communication port protocol | Measurement readout (option) : Modbus Remote indication and time tagging of events (option) : Modbus Remote control orders (option) : Modbus Remote protection setting (option) : Modbus Transfer of disturbance recording data (option) : Modbus |
| Input output max capacity | 42 inputs + 23 outputs |
| Communication compatibility | IEC 61850 IEC 60870-5-103 IEC 61850 goose message Modbus RTU Modbus TCP/IP DNP3 |
| User machine interface type | Without Advanced Remote Mimic-based |

Packing Units

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| Package 1 Weight | 0.001 kg |
| Package 1 Height | 0.010 dm |
| Package 1 width | 0.010 dm |
| Package 1 Length | 0.020 dm |