# Product data sheet Characteristics

### 59733

## transformer - T81 - Sepam series 80



Relay application	Transformer	
Range of product	Sepam series 80 NPP Sepam series 80	
Device short name	T81	
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	Measured residual current I0, calculated I¹0∑ 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 IM1, IM2, IM3 Peak demand current IM1, IM2, IM3 Measured residual current I¹0 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 Temperature (16 RTDs) ( option )	
Network and machine diagnosis type	Datalog (DLG) Unbalance ratio/negative sequence current li Disturbance recording Thermal capacity used Remaining operating time before overload tripping Waiting time after overload tripping Running hours counter/operating time 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
Switchgear diagnosis type	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 )
	Cumulative breaking current

#### Complementary

Complementary	
Type of measurement	Frequency Power factor Peak demand power Voltage Power (P,Q) Temperature Current Harmonic distorsion (I THD & U THD) Energy
Protection type	Directional earth fault ANSI code: 67N/67NC Synchro-check ( option ) ANSI code: 25 Overvoltage (L-L or L-N) ANSI code: 59 Temperature monitoring (16 RTDs) ( option ) ANSI code: 38/49T Thermal overload for machines ANSI code: 49RMS Restricted earth fault ANSI code: 64REF Earth fault/sensitive earth fault ANSI code: 50N/51N Earth fault/sensitive earth fault ANSI code: 50G/51G Negative sequence/unbalance ANSI code: 46 Remanent undervoltage ANSI code: 27R Overfrequency ANSI code: 81H Underfrequency ANSI code: 81H Underfrequency ANSI code: 81L Negative sequence overvoltage ANSI code: 47 Directional active overpower ANSI code: 27D Undervoltage (L-L or L-N) ANSI code: 27 Breaker failure ANSI code: 50BF Neutral voltage displacement ANSI code: 59N Phase overcurrent ANSI code: 50/51 Thermostat / buchholz ( option ) ANSI code: 26/63
Communication port protocol	Measurement readout ( option ) : Modbus Remote control orders ( option ) : Modbus Remote indication and time tagging of events ( option ) : Modbus Remote protection setting ( option ) : Modbus Transfer of disturbance recording data ( option ) : Modbus
Input output max capacity	42 inputs + 23 outputs
Communication compatibility	DNP3 Modbus TCPIP IEC 61850 goose message IEC 60870-5-103 IEC 61850 Modbus RTU
User machine interface type	Remote Without Advanced Mimic-based

#### Offer Sustainability

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Product environmental profile	Available
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