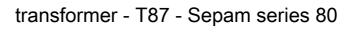
## Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications





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## Main

Relay application	Transformer
Range of product	Sepam series 80 Sepam series 80 NPP
Device short name	T87
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 Temperature (16 RTDs) (option) Phase current I'1, I'2, I'3 RMS Measured residual current I0, calculated I'0∑ Calculated residual current I'0∑
Network and machine diagnosis type	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 lthd, 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 Differential current Idiff1, idiff2, Idiff3 Through current It1, It2, It3 Current phase displacement θ Phase displacement Datalog (DLG)
Switchgear diagnosis type	Cumulative breaking current 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

Complementary	
Type of measurement	Temperature
	Power factor
	Frequency
	Voltage
	Current
	Energy
	Peak demand power
	Harmonic distorsion (I THD & U THD)  Power (P,Q)
	1 5 11 (1 , 4)
Protection type	Thermostat / buchholz ANSI code: 26/63 (option)
	Neutral voltage displacement ANSI code: 59N (2)
	Breaker failure ANSI code: 50BF (1)
	Directional earth fault ANSI code: 67N/67NC (2)
	Directional phase overcurrent ANSI code: 67 (2)
	Synchro-check ANSI code: 25 (option)
	Overvoltage (L-L or L-N) ANSI code: 59 (4)
	Temperature monitoring (16 RTDs) ANSI code: 38/49T (option)
	Thermal overload for machines ANSI code: 49RMS (2)
	Restricted earth fault ANSI code: 64REF (2)
	Overfluxing (V/Hz) ANSI code: 24 (2)
	Two-winding transformer differential ANSI code: 87T (1)
	Negative sequence/unbalance ANSI code: 46 (2)
	Overfrequency ANSI code: 81H (2)
	Underfrequency ANSI code: 81L (4)
	Positive sequence undercurrent ANSI code: 27D (2)
	Remanent undervoltage ANSI code: 27R (2)
	Undervoltage (L-L or L-N) ANSI code: 27 (4)
	Negative sequence overvoltage ANSI code: 47 (2)
	Phase overcurrent ANSI code: 50/51 (8)
	Earth fault/sensitive earth fault ANSI code: 50N/51N (8)
	Earth fault/sensitive earth fault ANSI code: 50G/51G (8)
	Directional active overpower ANSI code: 32P (2)
Communication port protocol	Management and desired and the Arthur
	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	DND
	DNP3
	IEC 61850
	IEC 61850 goose message
	Modbus RTU
	Modbus TCPIP
	IEC 60870-5-103
User machine interface type	Remote
	Mimic-based
	Advanced
	Without
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.1 cm
Package 1 Width	0.1 cm
Package 1 Length	0.2 cm
Package 1 Weight	1.0 g
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## **Sustainability**

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration