

# Product datasheet

Specifications



## transformer - T81 - Sepam series 80

59733

### Main

<b>Relay application</b>	Transformer
<b>Range of product</b>	Sepam series 80 NPP Sepam series 80
<b>Device short name</b>	T81
<b>Control and monitoring type</b>	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
<b>Metering type</b>	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) Measured residual current I0, calculated I'0Σ
<b>Network and machine diagnosis type</b>	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 Phase displacement Datalog (DLG)
<b>Switchgear diagnosis type</b>	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

<b>Type of measurement</b>	<p>Frequency</p> <p>Peak demand power</p> <p>Harmonic distortion (I THD &amp; U THD)</p> <p>Temperature</p> <p>Energy</p> <p>Power (P,Q)</p> <p>Power factor</p> <p>Current</p> <p>Voltage</p>
<b>Protection type</b>	<p>Thermostat / buchholz ANSI code: 26/63 (option)</p> <p>Neutral voltage displacement ANSI code: 59N (2)</p> <p>Breaker failure ANSI code: 50BF (1)</p> <p>Directional earth fault ANSI code: 67N/67NC (2)</p> <p>Synchro-check ANSI code: 25 (option)</p> <p>Overvoltage (L-L or L-N) ANSI code: 59 (4)</p> <p>Temperature monitoring (16 RTDs) ANSI code: 38/49T (option)</p> <p>Thermal overload for machines ANSI code: 49RMS (2)</p> <p>Restricted earth fault ANSI code: 64REF (2)</p> <p>Negative sequence/unbalance ANSI code: 46 (2)</p> <p>Overfrequency ANSI code: 81H (2)</p> <p>Underfrequency ANSI code: 81L (4)</p> <p>Positive sequence undercurrent ANSI code: 27D (2)</p> <p>Remanent undervoltage ANSI code: 27R (2)</p> <p>Undervoltage (L-L or L-N) ANSI code: 27 (4)</p> <p>Negative sequence overvoltage ANSI code: 47 (2)</p> <p>Phase overcurrent ANSI code: 50/51 (8)</p> <p>Earth fault/sensitive earth fault ANSI code: 50N/51N (8)</p> <p>Earth fault/sensitive earth fault ANSI code: 50G/51G (8)</p> <p>Directional active overpower ANSI code: 32P (2)</p>
<b>Communication port protocol</b>	<p>Measurement readout ( option ) : Modbus</p> <p>Remote indication and time tagging of events ( option ) : Modbus</p> <p>Remote control orders ( option ) : Modbus</p> <p>Remote protection setting ( option ) : Modbus</p> <p>Transfer of disturbance recording data ( option ) : Modbus</p>
<b>Input output max capacity</b>	42 inputs + 23 outputs
<b>Communication compatibility</b>	<p>DNP3</p> <p>IEC 60870-5-103</p> <p>IEC 61850</p> <p>Modbus RTU</p> <p>Modbus TCP/IP</p> <p>IEC 61850 goose message</p>
<b>User machine interface type</b>	<p>Without</p> <p>Advanced</p> <p>Mimic-based</p> <p>Remote</p>

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	0.1 cm
<b>Package 1 Width</b>	0.1 cm
<b>Package 1 Length</b>	0.2 cm
<b>Package 1 Weight</b>	1.0 g

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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 >](#)

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### Reach Regulation

[REACH Declaration](#)

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### Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

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### China Rohs Regulation

[China RoHS declaration](#)

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