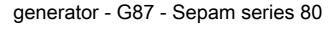
# Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications





59741

# Main

Relay Application	Generator
Range Of Product	Sepam series 80 NPP Sepam series 80
Device Short Name	G87
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 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 Rotation speed (option) Neutral point voltage Vnt 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 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

Differential current Idiff1, idiff2, Idiff3 Through current It1, It2, It3

Third harmonic voltage, neutral point residual

Current phase displacement  $\boldsymbol{\theta}$ 

Phase displacement Datalog (DLG)

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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		
Type Of Measurement	Power factor Voltage Power (P,Q) Energy Peak demand power Rotation speed Current Frequency Harmonic distorsion (I THD & U THD) Temperature	
Protection Type	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) Overfluxing (V/Hz) ANSI code: 24 (2) Field loss (underimpedance) ANSI code: 40 (1) Pole slip ANSI code: 78PS (1) Overspeed (2 set points) ANSI code: 12 (option) Underspeed (2 set points) ANSI code: 44 (option) Directional reactive overpower ANSI code: 32Q (1) Machine differential ANSI code: 87M (1) Underimpedance ANSI code: 21B (1) Inadvertent energisation ANSI code: 50/27 (1) Third harmonic undervoltage/100 % stator earth fault ANSI code: 27TN/64G2 (2) Third harmonic undervoltage/100 % stator earth fault ANSI code: 64G (2) 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) Voltage-restrained overcurrent ANSI code: 50V/51V (2)	
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	DNP3 Modbus RTU Modbus TCPIP IEC 61850 goose message IEC 60870-5-103 IEC 61850	
User Machine Interface Type	Remote Advanced Without Mimic-based	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Backage 1	4

Package 1 Height	0.1 cm	
Package 1 Width	0.1 cm	
Package 1 Length	0.2 cm	
Package 1 Weight	1.0 a	

# **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 >

# Well-being performance

