59739

generator - G82 - Sepam series 80

Main

Relay application	Generator
Range of product	Sepam series 80 Sepam series 80 NPP
Device short name	G82
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) Rotation speed (option) Neutral point voltage Vnt 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 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
	Third harmonic voltage, neutral point residual
	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

Type of measurement	Harmonic distorsion (I THD & U THD)
	Voltage
	Current
	Power factor
	Peak demand power
	Power (P,Q)
	Energy
	Temperature
	Frequency
	Rotation speed
Protection type	Thermostat / buchholz ANSI code: 26/63 (option)
	Neutral voltage displacement ANSI code: 59N
	Breaker failure ANSI code: 50BF
	Directional earth fault ANSI code: 67N/67NC
	Directional phase overcurrent ANSI code: 67
	Synchro-check ANSI code: 25 (option)
	Overvoltage (L-L or L-N) ANSI code: 59
	Temperature monitoring (16 RTDs) ANSI code: 38/49T (option)
	Thermal overload for machines ANSI code: 49RMS
	Restricted earth fault ANSI code: 64REF
	Overfluxing (V/Hz) ANSI code: 24
	Field loss (underimpedance) ANSI code: 40
	Pole slip ANSI code: 78PS
	Overspeed (2 set points) ANSI code: 12 (option)
	Underspeed (2 set points) ANSI code: 14 (option)
	Directional reactive overpower ANSI code: 32Q
	Directional active underpower ANSI code: 32P
	Underimpedance ANSI code: 21B
	Inadvertent energisation ANSI code: 50/27
	Third harmonic undervoltage/100 % stator earth fault ANSI code: 27TN/64G2
	Third harmonic undervoltage/100 % stator earth fault ANSI code: 64G
	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
	Voltage-restrained overcurrent ANSI code: 50V/51V
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
	IEC 61850
	Modbus TCPIP
	IEC 60870-5-103
	Modbus RTU
	IEC 61850 goose message
User machine interface type	Without
	Remote
	Mimic-based
	Advanced

Packing Units

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